NatureDSP Signal for HiFi3/HiFi3z VFPU

Digital Signal Processing

Performance data

Library Release: 4.0.0
Library API: 3.22
Updated by IntegrIT November, 2017

IntegrIT, Limited
http://www.integrit.com/
support@integrit.com
Tel: +7 495 545 46 42

Contents

Performance Briefs

This chapter collects brief performance data for library functions. All data presented below are given for ideal memory performance (no memory modeling).

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
FIR Filters				
Filtering				
bkfir16x16_process	Fast Real FIR filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=80; M=256	5496 (3.7 MACs/cycle)	2886 (7.1 MACs/cycle)
bkfira16x16_process	Real FIR filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=80; M=256	8202 (2.5 MACs/cycle)	3124 (6.6 MACs/cycle)
bkfir24x24_process	Fast Real FIR filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 80; M: 256	5485 (3.7 MACs/cycle)	5434 (3.8 MACs/cycle)
bkfir24x24p_process	Fast Real FIR filter (24-bit data, 24-bit packed internal delay line buffer and internal coefficients storage)	N: 80; M: 256	5606 (3.7 MACs/cycle)	5477 (3.7 MACs/cycle)
bkfira24x24_process	Real FIR filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 80; M: 256	5529 (3.7 MACs/cycle)	5477 (3.7 MACs/cycle)
bkfir32x16_process	Fast Real FIR filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 256	5512 (3.7 MACs/cycle)	5452 (3.8 MACs/cycle)
bkfir32x32_process	Fast Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 80; M: 256	10911 (1.9 MACs/cycle)	10863 (1.9 MACs/cycle)
bkfira32x16_process	Real FIR filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 256	5587 (3.7 MACs/cycle)	5506 (3.7 MACs/cycle)
bkfira32x32_process	Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=80; M=256	10945 (1.9 MACs/cycle)	10916 (1.9 MACs/cycle)
cxfir16x16_process	Fast Complex Block FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=80; M=128	10910 (3.8 MACs/cycle)	6813 (6.0 MACs/cycle)
cxfir32x16_process	Fast Complex Block FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 128	11007 (3.7 MACs/cycle)	10899 (3.8 MACs/cycle)
cxfir24x24_process	Fast Complex Block FIR Filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 80; M: 128	10770 (3.8 MACs/cycle)	10723 (3.8 MACs/cycle)
cxfir32x32_process	Fast Complex Block FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=80; M=128	21274 (1.9 MACs/cycle)	21148 (1.9 MACs/cycle)
bkfiraf_process	Real FIR filter (floating point data)	N: 512; M: 32	12074 (1.4 MACs/cycle)	11295 (1.5 MACs/cycle)
bkfirf_process	Fast Real FIR filter (floating point data)	N: 512; M: 32	9831 (1.7 MACs/cycle)	9374 (1.7 MACs/cycle)
cxfirf_process	Fast Complex Block FIR Filter (floating point data)	N: 512; M: 32	35619 (1.8 MACs/cycle)	35100 (1.9 MACs/cycle)
Decimation				
firdec16x16_process	Decimating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=1024; M=256; D=2	82233 (3.2 MACs/cycle)	48175 (5.4 MACs/cycle)
firdec16x16_process	Decimating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=1024; M=256; D=3	91965 (2.9 MACs/cycle)	55599 (4.7 MACs/cycle)
firdec16x16_process	Decimating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=1024; M=256; D=4	79162 (3.3 MACs/cycle)	39724 (6.6 MACs/cycle)
firdec32x16_process	Decimating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 2	74683 (3.5 MACs/cycle)	72619 (3.6 MACs/cycle)
firdec32x16_process	Decimating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	79809 (3.3 MACs/cycle)	76844 (3.4 MACs/cycle)
firdec32x16_process	Decimating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	81353 (3.2 MACs/cycle)	77233 (3.4 MACs/cycle)
firdec24x24_process	Decimating Block Real FIR Filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 1024; M: 256; D: 2	74301 (3.5 MACs/cycle)	72235 (3.6 MACs/cycle)
firdec24x24_process	Decimating Block Real FIR Filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 1024; M: 256; D: 3	79554 (3.3 MACs/cycle)	77100 (3.4 MACs/cycle)
firdec24x24_process	Decimating Block Real FIR Filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 1024; M: 256; D: 4	83915 (3.1 MACs/cycle)	80049 (3.3 MACs/cycle)
firdec32x32_process	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=1024; M=256; D=2	138804 (1.9 MACs/cycle)	137258 (1.9 MACs/cycle)
firdec32x32_process	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=1024; M=256; D=3	144696 (1.8 MACs/cycle)	138796 (1.9 MACs/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
firdec32x32_process	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=1024; M=256; D=4	147510 (1.8 MACs/cycle)	138280 (1.9 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 2	142896 (1.8 MACs/cycle)	139815 (1.9 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 3	175669 (1.5 MACs/cycle)	173608 (1.5 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 4	154672 (1.7 MACs/cycle)	151078 (1.7 MACs/cycle)
Interpolation				
firinterp16x16_process	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=1024; M=256; D=2	141232 (3.7 MACs/cycle)	73006 (7.2 MACs/cycle)
firinterp16x16_process	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=1024; M=256; D=3	214064 (3.7 MACs/cycle)	127281 (6.2 MACs/cycle)
firinterp16x16_process	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N=1024; M=256; D=4	283828 (3.7 MACs/cycle)	178993 (5.9 MACs/cycle)
firinterp32x16_process	Interpolating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 2	138926 (3.8 MACs/cycle)	137765 (3.8 MACs/cycle)
firinterp32x16_process	Interpolating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	207792 (3.8 MACs/cycle)	207525 (3.8 MACs/cycle)
firinterp32x16_process	Interpolating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	275888 (3.8 MACs/cycle)	276773 (3.8 MACs/cycle)
firinterp24x24_process	Interpolating Block Real FIR Filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 1024; M: 256; D: 2	138798 (3.8 MACs/cycle)	137893 (3.8 MACs/cycle)
firinterp24x24_process	Interpolating Block Real FIR Filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 1024; M: 256; D: 3	207792 (3.8 MACs/cycle)	207780 (3.8 MACs/cycle)
firinterp24x24_process	Interpolating Block Real FIR Filter (24-bit data, 24-bit coefficients, 24-bit outputs)	N: 1024; M: 256; D: 4	275889 (3.8 MACs/cycle)	276901 (3.8 MACs/cycle)
firinterp32x32_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=1024; M=256; D=2	275520 (1.9 MACs/cycle)	273458 (1.9 MACs/cycle)
firinterp32x32_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=1024; M=256; D=3	421444 (1.9 MACs/cycle)	417585 (1.9 MACs/cycle)
firinterp32x32_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N=1024; M=256; D=4	559428 (1.9 MACs/cycle)	553264 (1.9 MACs/cycle)
firinterpf_process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 2	270902 (1.9 MACs/cycle)	269353 (1.9 MACs/cycle)
firinterpf_process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 3	400698 (2.0 MACs/cycle)	398890 (2.0 MACs/cycle)
firinterpf_process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 4	532796 (2.0 MACs/cycle)	530220 (2.0 MACs/cycle)
Correlation, Convolution, Dispreading, LMS				
fir_convol16x16	Fast Circular Convolution (16x16-bit data, 16-bit outputs)	N=256; M=80	6416 (3.2 MACs/cycle)	3293 (6.2 MACs/cycle)
fir_convol32x16	Fast Circular Convolution (32x16-bit data, 32-bit outputs)	N: 256; M: 80	5697 (3.6 MACs/cycle)	5686 (3.6 MACs/cycle)
fir_convol24x24	Fast Circular Convolution (24x24-bit data, 24-bit outputs)	N: 256; M: 80	5667 (3.6 MACs/cycle)	5655 (3.6 MACs/cycle)
fir_convol32x32	Fast Circular Convolution (32x32-bit data, 32-bit outputs)	N=256; M=80	11932 (1.7 MACs/cycle)	11669 (1.8 MACs/cycle)
fir_convola16x16	Circular Convolution (16x16-bit data, 16-bit outputs)	N=256; M=80	6841 (3.0 MACs/cycle)	3483 (5.9 MACs/cycle)
fir_convola32x16	Circular Convolution (32x16-bit data, 32-bit outputs)	N: 256; M: 80	6274 (3.3 MACs/cycle)	5945 (3.4 MACs/cycle)
fir_convola24x24	Circular Convolution (24x24-bit data, 24-bit outputs)	N: 256; M: 80	6231 (3.3 MACs/cycle)	5867 (3.5 MACs/cycle)
fir_convola32x32	Circular Convolution (32x32-bit data, 32-bit outputs)	N=256; M=80	11909 (1.7 MACs/cycle)	11805 (1.7 MACs/cycle)
cxfir_convol32x16	Fast Circular Convolution (32x16-bit complex data, 32-bit complex outputs)	N: 256; M: 80	21660 (3.8 MACs/cycle)	21589 (3.8 MACs/cycle)
cxfir_convola32x16	Circular Convolution (32x16-bit complex data, 32-bit complex outputs)	N: 256; M: 80	22606 (3.6 MACs/cycle)	22081 (3.7 MACs/cycle)
fir_lconvola16x16	Linear Convolution (16x16-bit data, 16-bit outputs)	N=256; M=80	7351 (2.8 MACs/cycle)	3794 (5.4 MACs/cycle)
fir_lconvola32x32	Linear Convolution (32x32-bit data, 32-bit outputs)	N=256; M=80	12720 (1.6 MACs/cycle)	12394 (1.7 MACs/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
fir_xcorr16x16	Fast Circular Correlation (16x16-bit data, 16-bit outputs)	N=256; M=80	5855 (3.5 MACs/cycle)	3288 (6.2 MACs/cycle)
fir_xcorr32x16	Fast Circular Correlation (32x16-bit data, 32-bit outputs)	N: 256; M: 80	5759 (3.6 MACs/cycle)	5622 (3.6 MACs/cycle)
fir_xcorr24x24	Fast Circular Correlation (24x24-bit data, 24-bit outputs)	N: 256; M: 80	5728 (3.6 MACs/cycle)	5590 (3.7 MACs/cycle)
fir_xcorr32x32	Fast Circular Correlation (32x32-bit data, 32-bit outputs)	N=256; M=80	11738 (1.7 MACs/cycle)	11475 (1.8 MACs/cycle)
fir_xcorra16x16	Circular Correlation (16x16-bit data, 16-bit outputs)	N=256; M=80	6057 (3.4 MACs/cycle)	3479 (5.9 MACs/cycle)
fir_xcorra32x16	Circular Correlation (32x16-bit data, 32-bit outputs)	N: 256; M: 80	6274 (3.3 MACs/cycle)	5937 (3.4 MACs/cycle)
fir_xcorra24x24	Circular Correlation (24x24-bit data, 24-bit outputs)	N: 256; M: 80	6291 (3.3 MACs/cycle)	5901 (3.5 MACs/cycle)
fir_xcorra32x32	Circular Correlation (32x32-bit data, 32-bit outputs)	N=256; M=80	11900 (1.7 MACs/cycle)	11798 (1.7 MACs/cycle)
fir_lxcorra16x16	Linear Correlation (16x16-bit data, 16-bit outputs)	N=256; M=80	7348 (2.8 MACs/cycle)	3796 (5.4 MACs/cycle)
fir_lxcorra32x32	Linear Correlation (32x32-bit data, 32-bit outputs)	N=256; M=80	12719 (1.6 MACs/cycle)	12396 (1.7 MACs/cycle)
fir_acorr16x16	Fast Circular Autocorrelation (16-bit data, 16-bit outputs)	N=256	17128 (3.8 MACs/cycle)	8927 (7.3 MACs/cycle)
fir_acorr24x24	Fast Circular Autocorrelation (24-bit data, 24-bit outputs)	N: 256	16892 (3.9 MACs/cycle)	16884 (3.9 MACs/cycle)
fir_acorr32x32	Fast Circular Autocorrelation (32-bit data, 32-bit outputs)	N=256	34266 (1.9 MACs/cycle)	34005 (1.9 MACs/cycle)
fir_acorra16x16	Circular Autocorrelation (16-bit data, 16-bit outputs)	N=256	17507 (3.7 MACs/cycle)	9203 (7.1 MACs/cycle)
fir_acorra24x24	Circular Autocorrelation (24-bit data, 24-bit outputs)	N: 256	17580 (3.7 MACs/cycle)	17281 (3.8 MACs/cycle)
fir_acorra32x32	Circular Autocorrelation (32-bit data, 32-bit outputs)	N=256	34758 (1.9 MACs/cycle)	34487 (1.9 MACs/cycle)
fir_lacorra16x16	Linear Autocorrelation (16-bit data, 16-bit outputs)	N=256	10017 (3.3 MACs/cycle)	5044 (6.5 MACs/cycle)
fir_lacorra32x32	Linear Autocorrelation (32-bit data, 32-bit outputs)	N=256	18733 (1.7 MACs/cycle)	18404 (1.8 MACs/cycle)
fir_blms16x16	Blockwise Adaptive LMS Algorithm for Real Data (16-bit coefficients, 16-bit data, 16-bit output)	N=80; M=128	6397 (3.2 MACs/cycle)	3419 (6.0 MACs/cycle)
fir_blms16x32	Blockwise Adaptive LMS Algorithm for Real Data (32-bit coefficients, 16-bit data, 16-bit output)	N: 80; M: 128	6933 (3.0 MACs/cycle)	6739 (3.0 MACs/cycle)
fir_blms24x24	Blockwise Adaptive LMS Algorithm for Real Data (24-bit coefficients, 24-bit data, 24-bit output)	N: 80; M: 128	6122 (3.3 MACs/cycle)	5985 (3.4 MACs/cycle)
fir_blms32x32	Blockwise Adaptive LMS Algorithm for Real Data (32-bit coefficients, 32-bit data, 32-bit output)	N=80; M=128	11664 (1.8 MACs/cycle)	11513 (1.8 MACs/cycle)
fir_convolf	Fast Circular Convolution (floating point data)	N: 256; M: 80	11936 (1.7 MACs/cycle)	11607 (1.8 MACs/cycle)
fir_convolaf	Circular Convolution (floating point data)	N: 256; M: 80	12038 (1.7 MACs/cycle)	11360 (1.8 MACs/cycle)
fir_xcorrf	Fast Circular Correlation (floating point data)	N: 256; M: 80	11614 (1.8 MACs/cycle)	11415 (1.8 MACs/cycle)
cxfir_xcorrf	Circular Correlation (complex floating point data)	N: 256; M: 80	42010 (2.0 MACs/cycle)	41813 (2.0 MACs/cycle)
fir_xcorraf	Circular Correlation (floating point data)	N: 256; M: 80	11964 (1.7 MACs/cycle)	11322 (1.8 MACs/cycle)
cxfir_xcorraf	Circular Correlation (complex floating point data)	N: 256; M: 80	41955 (2.0 MACs/cycle)	41817 (2.0 MACs/cycle)
fir_acorrf	Fast Circular Autocorrelation (floating point data)	N: 256	34150 (1.9 MACs/cycle)	33948 (1.9 MACs/cycle)
fir_acorraf	Circular Autocorrelation (floating point data)	N: 256	34712 (1.9 MACs/cycle)	33980 (1.9 MACs/cycle)
fir_blmsf	Blockwise Adaptive LMS Algorithm for Real Data (floating point data)	N: 80; M: 128	11262 (1.8 MACs/cycle)	11008 (1.9 MACs/cycle)
IIR Filters				
Biquad Filters				
bqriir16x16_df1	Bi-quad Real Block IIR, DFI (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs)	N=256, M=8, gain=1	7523 (3.7 cycles/(biquad*pts)	5488 (2.7 cycles/(biquad*pt

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
				s)
bqriir16x16_df2	Bi-quad Real Block IIR, DFII (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs)	N=256, M=8, gain=1	9347 (4.6 cycles/(biquad*pts)	5491 (2.7 cycles/(biquad*pts)
bqriir32x16_df1	Bi-quad Real Block IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	6423 (3.1 cycles/(biquad*pts)	6411 (3.1 cycles/(biquad*pts)
bqriir32x16_df2	Bi-quad Real Block IIR, DFII (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	6887 (3.4 cycles/(biquad*pts)	6411 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	Bi-quad Real Block IIR, DFI (32-bit data, 24-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	6440 (3.1 cycles/(biquad*pts)	6419 (3.1 cycles/(biquad*pts)
bqriir24x24_df2	Bi-quad Real Block IIR, DFII (32-bit data, 24-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	6537 (3.2 cycles/(biquad*pts)	6475 (3.2 cycles/(biquad*pts)
bqriir32x32_df1	Bi-quad Real Block IIR, DFI (32-bit data, 32-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	9368 (4.6 cycles/(biquad*pts)	6395 (3.1 cycles/(biquad*pts)
bqriir32x32_df2	Bi-quad Real Block IIR, DFII (32-bit data, 32-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	7961 (3.9 cycles/(biquad*pts)	7041 (3.4 cycles/(biquad*pts)
bqriirf_df1	Bi-quad Real Block IIR, DFI (floating point data)	N=512, M=16	23353 (2.9 cycles/(biquad*pts)	26160 (3.2 cycles/(biquad*pts)
bqriirf_df2	Bi-quad Real Block IIR, DFII (floating point data)	N=512, M=16	27354 (3.3 cycles/(biquad*pts)	27187 (3.3 cycles/(biquad*pts)
bqriirf_df2t	Bi-quad Real Block IIR, DFIIt (floating point data)	N=512, M=16	25259 (3.1 cycles/(biquad*pts)	23046 (2.8 cycles/(biquad*pts)
bqciirf_df1	Bi-quad Real Block IIR, DFI (complex floating point data)	N=512, M=16	51122 (6.2 cycles/(biquad*pts)	50730 (6.2 cycles/(biquad*pts)
Lattice Filters				
latr16x16_process	Lattice Block Real IIR (16-bit data, 16-bit coefficients)	N=256, M=8	3394 (1.7 cycles/(sample*M)	3252 (1.6 cycles/(sample*M)
latr32x16_process	Lattice Block Real IIR (32-bit data, 16-bit coefficients)	N=256, M=8	3252 (1.6 cycles/(sample*M)	3245 (1.6 cycles/(sample*M)
latr24x24_process	Lattice Block Real IIR (24-bit data, 24-bit coefficients)	N=256, M=8	4655 (2.3 cycles/(sample*M)	4645 (2.3 cycles/(sample*M)
latr32x32_process	Lattice Block Real IIR (32-bit data, 32-bit coefficients)	N=256, M=8	3386 (1.7 cycles/(sample*M)	3377 (1.6 cycles/(sample*M)
latrf_process	Lattice Block Real IIR (floating point data)	N=256, M=8	7453 (3.6 cycles/(sample*M)	7246 (3.5 cycles/(sample*M)
Math Functions				
Vectorized Math				
vec_recip16x16	Vector Reciprocal (16-bit data)	N=200	1785 (8.9 cycles/pts)	1662 (8.3 cycles/pts)
vec_recip24x24	Vector Reciprocal (24-bit data)	N=200	2310 (11.6 cycles/pts)	2159 (10.8 cycles/pts)
vec_recip32x32	Vector Reciprocal (32-bit data)	N=200	2565 (12.8 cycles/pts)	2498 (12.5 cycles/pts)
vec_log2_32x32	Vector Base-2 Logarithm (32-bit data)	N=200	2235 (11.2 cycles/pts)	2226 (11.1 cycles/pts)
vec_logn_32x32	Vector Natural Logarithm (32-bit data)	N=200	2234 (11.2 cycles/pts)	2235 (11.2 cycles/pts)
vec_log10_32x32	Vector Base-10 Logarithm (32-bit data)	N=200	2234 (11.2 cycles/pts)	2235 (11.2 cycles/pts)
vec_log2_24x24	Vector Base-2 Logarithm (24-bit data)	N=200	2232 (11.2 cycles/pts)	2227 (11.1 cycles/pts)
vec_logn_24x24	Vector Natural Logarithm (24-bit data)	N=200	2234 (11.2 cycles/pts)	2235 (11.2 cycles/pts)
vec_log10_24x24	Vector Base-10 Logarithm (24-bit data)	N=200	2234 (11.2 cycles/pts)	2234 (11.2 cycles/pts)
vec_antilog2_24x24	Vector Base-2 Antilogarithm, (24-bit data)	N=200	853 (4.3 cycles/pts)	837 (4.2 cycles/pts)
vec_antilogn_24x24	Vector Natural Antilogarithm, (24-bit data)	N=200	958 (4.8 cycles/pts)	941 (4.7 cycles/pts)
vec_antilog10_24x24	Vector Base-10 Antilogarithm, (24-bit data)	N=200	958 (4.8	942 (4.7

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
			cycles/pts)	cycles/pts)
vec_antilog2_32x32	Vector Base-2 Antilogarithm, (32-bit data)	N=200	853 (4.3 cycles/pts)	836 (4.2 cycles/pts)
vec_antilogn_32x32	Vector Natural Antilogarithm, (32-bit data)	N=200	958 (4.8 cycles/pts)	941 (4.7 cycles/pts)
vec_antilog10_32x32	Vector Base-10 Antilogarithm, (32-bit data)	N=200	958 (4.8 cycles/pts)	941 (4.7 cycles/pts)
vec_tan32x32	Vector Tangent (32-bit data)	N=200	3175 (15.9 cycles/pts)	3143 (15.7 cycles/pts)
vec_tan24x24	Vector Tangent (24-bit data)	N=200	3157 (15.8 cycles/pts)	3144 (15.7 cycles/pts)
vec_atan32x32	Vector Arctangent (32-bit data)	N=200	1443 (7.2 cycles/pts)	1540 (7.7 cycles/pts)
vec_atan24x24	Vector Arctangent (24-bit data)	N=200	993 (5.0 cycles/pts)	937 (4.7 cycles/pts)
vec_atan2_24x24	Vector Full-Quadrant Arctangent (24-bit data)	N=200	6944 (34.7 cycles/pts)	6841 (34.2 cycles/pts)
vec_sqrt16x16	Vector Square Root (16-bit inputs, 16-bit output)	N=200	1956 (9.8 cycles/pts)	1646 (8.2 cycles/pts)
vec_sqrt64x32	Vector Square Root (64-bit inputs, 32-bit output)	N=200	1955 (9.8 cycles/pts)	1645 (8.2 cycles/pts)
vec_rsqrt16x16	Vector Reciprocal Square Root (16-bit data)	N=200	2512 (12.6 cycles/pts)	2496 (12.5 cycles/pts)
vec_rsqrt32x32	Vector Reciprocal Square Root (32-bit data)	N=200	4656 (23.3 cycles/pts)	3565 (17.8 cycles/pts)
vec_sigmoid32x32	Vector Sigmoid (32-bit data)	N=200	1482 (7.4 cycles/pts)	1474 (7.4 cycles/pts)
vec_softmax32x32	Vector Softmax (32-bit data)	N=200	1304 (6.5 cycles/pts)	1105 (5.5 cycles/pts)
vec_tanh32x32	Vector Hyperbolic Tangent (32-bit data)	N=200	1381 (6.9 cycles/pts)	1373 (6.9 cycles/pts)
vec_int2float	Integer to Floating Value Vector Conversion	N=200	337 (1.7 cycles/pts)	238 (1.2 cycles/pts)
vec_float2int	Integer to Floating Value Vector Conversion	N=200	339 (1.7 cycles/pts)	238 (1.2 cycles/pts)
vec_sinef	Sine (floating point data)	N=200	4257 (21.3 cycles/pts)	4460 (22.3 cycles/pts)
vec_cosinef	Cosine (floating point data)	N=200	4089 (20.4 cycles/pts)	4309 (21.5 cycles/pts)
vec_tanf	Vector Tangent (floating point data)	N=200	4725 (23.6 cycles/pts)	4656 (23.3 cycles/pts)
vec_log2f	Vector Base-2 Logarithm (floating point data)	N=200	3292 (16.5 cycles/pts)	3144 (15.7 cycles/pts)
vec_log10f	Vector Base-10 Logarithm (floating point data)	N=200	3463 (17.3 cycles/pts)	3291 (16.5 cycles/pts)
vec_lognf	Vector Natural Logarithm (floating point data)	N=200	3053 (15.3 cycles/pts)	3004 (15.0 cycles/pts)
vec_antilog2f	Vector Base-2 Antilogarithm, (floating point data)	N=200	1467 (7.3 cycles/pts)	1465 (7.3 cycles/pts)
vec_antilognf	Vector Natural Antilogarithm, (floating point data)	N=200	1465 (7.3 cycles/pts)	1550 (7.8 cycles/pts)
vec_antilog10f	Vector Base-10 Antilogarithm, (floating point data)	N=200	1760 (8.8 cycles/pts)	1851 (9.3 cycles/pts)
vec_atanf	Vector Arctangent (floating point data)	N=200	3285 (16.4 cycles/pts)	3311 (16.6 cycles/pts)
vec_atan2f	Vector Full-Quadrant Arctangent (floating point data)	N=200	4555 (22.8 cycles/pts)	4592 (23.0 cycles/pts)
Vectorized Fast Math				
vec_divide16x16_fast	Fast Vector Division (16-bit data)	N=200	1802 (9.0 cycles/pts)	1527 (7.6 cycles/pts)
vec_divide24x24_fast	Fast Vector Division (24-bit data)	N=200	1837 (9.2 cycles/pts)	1832 (9.2 cycles/pts)
vec_divide32x32_fast	Fast Vector Division (32-bit data)	N=200	2335 (11.7 cycles/pts)	1853 (9.3 cycles/pts)
vec_sine32x32_fast	Fast Vector Sine (32-bit data)	N=200	994 (5.0 cycles/pts)	842 (4.2 cycles/pts)
vec_cosine32x32_fast	Fast Vector Cosine (32-bit data)	N=200	995 (5.0 cycles/pts)	837 (4.2 cycles/pts)
vec_sine24x24_fast	Fast Vector Sine (24-bit data)	N=200	942 (4.7 cycles/pts)	833 (4.2 cycles/pts)
vec_cosine24x24_fast	Fast Vector Cosine (24-bit data)	N=200	943 (4.7 cycles/pts)	835 (4.2 cycles/pts)

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
vec_sqrt24x24_fast	Fast Vector Square Root (24-bit inputs, 24-bit output)	N=200	1746 (8.7 cycles/pts)	1542 (7.7 cycles/pts)
vec_sqrt32x32_fast	Fast Vector Square Root (32-bit inputs, 32-bit output)	N=200	1745 (8.7 cycles/pts)	1539 (7.7 cycles/pts)
Complex Functions				
Vectorized Complex Math				
vec_complex2mag	Vector Complex Magnitude (floating point data)	N=200	4941 (24.7 cycles/pts)	4738 (23.7 cycles/pts)
vec_complex2invmag	Vector Reciprocal Complex Magnitude (floating point data)	N=200	2945 (14.7 cycles/pts)	2982 (14.9 cycles/pts)
Vector Operations				
vec_add16x16_fast	Fast Vector Sum (16-bit data)	N=200	172 (0.9 cycles/pts)	97 (0.5 cycles/pts)
vec_add24x24_fast	Fast Vector Sum (24-bit data)	N=200	323 (1.6 cycles/pts)	172 (0.9 cycles/pts)
vec_add32x32_fast	Fast Vector Sum (32-bit data)	N=200	322 (1.6 cycles/pts)	172 (0.9 cycles/pts)
vec_power16x16_fast	Fast Power of a Vector (16x16-bit data, 64-bit output)	N=200	125 (0.6 cycles/pts)	72 (0.4 cycles/pts)
vec_power24x24_fast	Fast Power of a Vector (24x24-bit data, 64-bit output)	N=200	126 (0.6 cycles/pts)	122 (0.6 cycles/pts)
vec_power32x32_fast	Fast Power of a Vector (32x32-bit data, 64-bit output)	N=200	127 (0.6 cycles/pts)	124 (0.6 cycles/pts)
vec_scale16x16_fast	Fast Vector Scaling with Saturation (16-bit input, 16-bit output)	N=200	125 (0.6 cycles/pts)	98 (0.5 cycles/pts)
vec_scale24x24_fast	Fast Vector Scaling with Saturation (24-bit input, 24-bit output)	N=200	225 (1.1 cycles/pts)	178 (0.9 cycles/pts)
vec_scale32x24_fast	Fast Vector Scaling with Saturation (32-bit input, 32-bit output, 24-bit scale factor)	N=200	226 (1.1 cycles/pts)	127 (0.6 cycles/pts)
vec_scale32x32_fast	Fast Vector Scaling with Saturation (32-bit input, 32-bit output)	N=200	222 (1.1 cycles/pts)	126 (0.6 cycles/pts)
vec_shift16x16_fast	Fast Vector Shift with Saturation (16-bit data)	N=200	132 (0.7 cycles/pts)	124 (0.6 cycles/pts)
vec_shift24x24_fast	Fast Vector Shift with Saturation (24-bit data)	N=200	228 (1.1 cycles/pts)	177 (0.9 cycles/pts)
vec_shift32x32_fast	Fast Vector Shift with Saturation (32-bit data)	N=200	225 (1.1 cycles/pts)	174 (0.9 cycles/pts)
vec_dot16x16_fast	Fast Vector Dot product (16x16-bit data, 32-bit output)	N=200	129 (0.6 cycles/pts)	78 (0.4 cycles/pts)
vec_dot24x24_fast	Fast Vector Dot product (24x24-bit data, 64-bit output)	N=200	223 (1.1 cycles/pts)	129 (0.6 cycles/pts)
vec_dot32x16_fast	Fast Vector Dot product (32x16-bit data, 64-bit output)	N=200	173 (0.9 cycles/pts)	120 (0.6 cycles/pts)
vec_dot32x32_fast	Fast Vector Dot product (32x32-bit data, 64-bit output)	N=200	231 (1.2 cycles/pts)	125 (0.6 cycles/pts)
vec_max16x16_fast	Fast Vector Maximum Value (16-bit data)	N=200	128 (0.6 cycles/pts)	73 (0.4 cycles/pts)
vec_min16x16_fast	Fast Vector Minimum Value (16-bit data)	N=200	128 (0.6 cycles/pts)	73 (0.4 cycles/pts)
vec_max24x24_fast	Fast Vector Maximum Value (24-bit data)	N=200	128 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_min24x24_fast	Fast Vector Minimum Value (24-bit data)	N=200	128 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_max32x32_fast	Fast Vector Maximum Value (32-bit data)	N=200	126 (0.6 cycles/pts)	121 (0.6 cycles/pts)
vec_min32x32_fast	Fast Vector Minimum Value (32-bit data)	N=200	127 (0.6 cycles/pts)	122 (0.6 cycles/pts)
vec_dotf	Vector Dot product (floating point data)	N=200	242 (1.2 cycles/pts)	198 (1.0 cycles/pts)
vec_addf	Vector Sum (floating point data)	N=200	336 (1.7 cycles/pts)	231 (1.2 cycles/pts)
vec_powerf	Power of a Vector (floating point data)	N=200	149 (0.7 cycles/pts)	146 (0.7 cycles/pts)
vec_shiftf	Vector Shift with Saturation (floating point data)	N=200	244 (1.2 cycles/pts)	233 (1.2 cycles/pts)

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
vec_scalef	Vector Scaling with Saturation (floating point data)	N=200	232 (1.2 cycles/pts)	181 (0.9 cycles/pts)
vec_scale_sf	Vector Scaling with Saturation (floating point data)	N=200	340 (1.7 cycles/pts)	337 (1.7 cycles/pts)
vec_minf	Vector Minimum Value (floating point data)	N=200	133 (0.7 cycles/pts)	129 (0.6 cycles/pts)
vec_maxf	Vector Maximum Value (floating point data)	N=200	133 (0.7 cycles/pts)	127 (0.6 cycles/pts)
Matrix Operations				
mtx_mpy16x16_fast	Fast Matrix Multiply (16-bit data)	8x80 x 80x4	1031 (2.5 MACs/cycle)	658 (3.9 MACs/cycle)
mtx_mpy24x24_fast	Fast Matrix Multiply (24-bit data)	8x80 x 80x4	1127 (2.3 MACs/cycle)	1027 (2.5 MACs/cycle)
mtx_mpy32x32_fast	Fast Matrix Multiply (32-bit data)	8x80 x 80x4	1618 (1.6 MACs/cycle)	1411 (1.8 MACs/cycle)
mtx_vecmpy16x16_fast	Fast Matrix by Vector Multiply (16-bit data)	16x104 x 104x1	611 (2.7 MACs/cycle)	392 (4.2 MACs/cycle)
mtx_vecmpy24x24_fast	Fast Matrix by Vector Multiply (24-bit data)	16x104 x 104x1	1168 (1.4 MACs/cycle)	748 (2.2 MACs/cycle)
mtx_vecmpy32x32_fast	Fast Matrix by Vector Multiply (32-bit data)	16x104 x 104x1	1155 (1.4 MACs/cycle)	955 (1.7 MACs/cycle)
mtx_mpyf_fast	Fast Matrix Multiply (floating point data)	8x16 x 16x4	420 (1.2 MACs/cycle)	384 (1.3 MACs/cycle)
mtx_vecmpyf_fast	Fast Matrix by Vector Multiply (floating point data)	16x104 x 104x1	1152 (1.4 MACs/cycle)	1039 (1.6 MACs/cycle)
Matrix Decomposition and Inversion				
mtx_inv2x2f	Matrix inversion (floating point data)		44 (44.0 cycles/matrix)	42 (42.0 cycles/matrix)
mtx_inv3x3f	Matrix inversion (floating point data)		234 (234.0 cycles/matrix)	200 (200.0 cycles/matrix)
mtx_inv4x4f	Matrix inversion (floating point data)		372 (372.0 cycles/matrix)	300 (300.0 cycles/matrix)
Fitting and Interpolation				
Polynomial Fitting				
vec_poly4_24x24	Polynomial approximation (24-bit data)	N=200	465 (2.3 cycles/pts)	451 (2.3 cycles/pts)
vec_poly8_24x24	Polynomial approximation (24-bit data)	N=200	866 (4.3 cycles/pts)	849 (4.2 cycles/pts)
vec_poly4_32x32	Polynomial approximation (32-bit data)	N=200	457 (2.3 cycles/pts)	441 (2.2 cycles/pts)
vec_poly8_32x32	Polynomial approximation (32-bit data)	N=200	864 (4.3 cycles/pts)	845 (4.2 cycles/pts)
vec_poly4f	Polynomial approximation (floating point data)	N=200	570 (2.8 cycles/pts)	536 (2.7 cycles/pts)
vec_poly8f	Polynomial approximation (floating point data)	N=200	1086 (5.4 cycles/pts)	995 (5.0 cycles/pts)
FFT Routines				
Complex FFT				
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	48834 (0.084 pts/cycle)	23262 (0.176 pts/cycle)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	58247 (0.070 pts/cycle)	26083 (0.157 pts/cycle)
fft_cplx24x24	FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=0	66569 (0.062 pts/cycle)	48352 (0.085 pts/cycle)
fft_cplx24x24	FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=1	75622 (0.054 pts/cycle)	74038 (0.055 pts/cycle)
fft_cplx24x24	FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=2	83824 (0.049 pts/cycle)	80706 (0.051 pts/cycle)
fft_cplx24x24	FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=3	66584 (0.062 pts/cycle)	56059 (0.073 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096	59421 (0.069 pts/cycle)	54774 (0.075 pts/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=3	97138 (0.042 pts/cycle)	64541 (0.063 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=2	125459 (0.033 pts/cycle)	105842 (0.039 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	50435 (0.081 pts/cycle)	25044 (0.164 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	70372 (0.058 pts/cycle)	35346 (0.116 pts/cycle)
ifft_cplx24x24	Inverse FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=0	66567 (0.062 pts/cycle)	48349 (0.085 pts/cycle)
ifft_cplx24x24	Inverse FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=1	75623 (0.054 pts/cycle)	74038 (0.055 pts/cycle)
ifft_cplx24x24	Inverse FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=2	83823 (0.049 pts/cycle)	80703 (0.051 pts/cycle)
ifft_cplx24x24	Inverse FFT on Complex Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=3	66581 (0.062 pts/cycle)	56057 (0.073 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096	59419 (0.069 pts/cycle)	55098 (0.074 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=3	97145 (0.042 pts/cycle)	64541 (0.063 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=2	125469 (0.033 pts/cycle)	105842 (0.039 pts/cycle)
Real FFT				
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	32022 (0.128 pts/cycle)	16289 (0.251 pts/cycle)
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	38095 (0.108 pts/cycle)	17700 (0.231 pts/cycle)
fft_real24x24	FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=0	39113 (0.105 pts/cycle)	30490 (0.134 pts/cycle)
fft_real24x24	FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=1	53218 (0.077 pts/cycle)	51104 (0.080 pts/cycle)
fft_real24x24	FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=2	53219 (0.077 pts/cycle)	51104 (0.080 pts/cycle)
fft_real24x24	FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=3	47508 (0.086 pts/cycle)	41962 (0.098 pts/cycle)
fft_real32x16	FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096	36835 (0.111 pts/cycle)	34979 (0.117 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=3	116699 (0.070 pts/cycle)	79992 (0.102 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=2	153249 (0.053 pts/cycle)	129513 (0.063 pts/cycle)
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	33743 (0.121 pts/cycle)	16040 (0.255 pts/cycle)
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	49829 (0.082 pts/cycle)	25834 (0.159 pts/cycle)
ifft_real24x24	Inverse FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=0	40138 (0.102 pts/cycle)	31515 (0.130 pts/cycle)
ifft_real24x24	Inverse FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=1	54254 (0.075 pts/cycle)	52139 (0.079 pts/cycle)
ifft_real24x24	Inverse FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=2	54254 (0.075 pts/cycle)	52135 (0.079 pts/cycle)
ifft_real24x24	Inverse FFT on Real Data (24-bit input/outputs, 24-bit twiddles)	N=4096, scaling=3	41328 (0.099 pts/cycle)	36551 (0.112 pts/cycle)
ifft_real32x16	Inverse FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096	37858 (0.108 pts/cycle)	35686 (0.115 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=3	116712 (0.070 pts/cycle)	79994 (0.102 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=2	153264 (0.053 pts/cycle)	129520 (0.063 pts/cycle)
Mixed Radix Complex FFT				
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	22120 (0.043 pts/cycle)	15918 (0.060 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	27944 (0.034 pts/cycle)	22502 (0.043 pts/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	22127 (0.043 pts/cycle)	15918 (0.060 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	27952 (0.034 pts/cycle)	22502 (0.043 pts/cycle)
Mixed Radix Real FFT				
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	14025 (0.068 pts/cycle)	10384 (0.092 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	17160 (0.056 pts/cycle)	13828 (0.069 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	14039 (0.068 pts/cycle)	10385 (0.092 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	17177 (0.056 pts/cycle)	13838 (0.069 pts/cycle)
Complex FFT with Optimized Memory				
fft_cplx32x16_ie	FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024	14893 (0.069 pts/cycle)	13516 (0.076 pts/cycle)
fft_cplx24x24_ie	FFT on Complex Data with Optimized Memory Usage (24-bit input/outputs, 24-bit twiddles)	N=1024	14871 (0.069 pts/cycle)	13506 (0.076 pts/cycle)
fft_cplx16x16_ie	FFT on Complex Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	17663 (0.058 pts/cycle)	6441 (0.159 pts/cycle)
fft_cplx32x32_ie	FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	20429 (0.050 pts/cycle)	13749 (0.074 pts/cycle)
fft_cplx32x32_ie	FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	26272 (0.039 pts/cycle)	22062 (0.046 pts/cycle)
ifft_cplx32x16_ie	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024	17005 (0.060 pts/cycle)	14736 (0.069 pts/cycle)
ifft_cplx24x24_ie	Inverse FFT on Complex Data with Optimized Memory Usage (24-bit input/outputs, 24-bit twiddles)	N=1024	16983 (0.060 pts/cycle)	14728 (0.070 pts/cycle)
ifft_cplx16x16_ie	Inverse FFT on Complex Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	17659 (0.058 pts/cycle)	6675 (0.153 pts/cycle)
ifft_cplx32x32_ie	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	20437 (0.050 pts/cycle)	13749 (0.074 pts/cycle)
ifft_cplx32x32_ie	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	26281 (0.039 pts/cycle)	22063 (0.046 pts/cycle)
fft_cplxf_ie	FFT on Complex Data with Optimized Memory Usage (floating point data)	N=4096	90226 (0.045 pts/cycle)	90180 (0.045 pts/cycle)
ifft_cplxf_ie	Inverse FFT on Complex Data with Optimized Memory Usage (floating point data)	N=4096	92277 (0.044 pts/cycle)	92228 (0.044 pts/cycle)
Real FFT with Optimized Memory				
fft_real32x16_ie	FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024	9719 (0.105 pts/cycle)	8780 (0.117 pts/cycle)
fft_real32x16_ie_24p	FFT on Real Data with Optimized Memory Usage (24-bit packed input/outputs, 32-bit data, 16-bit twiddles)	N=1024	12368 (0.083 pts/cycle)	11171 (0.092 pts/cycle)
fft_real24x24_ie	FFT on Real Data with Optimized Memory Usage (24-bit input/outputs, 24-bit twiddles)	N=1024	9567 (0.107 pts/cycle)	8648 (0.118 pts/cycle)
fft_real24x24_ie_24p	FFT on Real Data with Optimized Memory Usage (24-bit packed input/outputs, 24-bit data, 24-bit twiddles)	N=1024	13229 (0.077 pts/cycle)	12567 (0.081 pts/cycle)
fft_real16x16_ie	FFT on Real Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	11481 (0.089 pts/cycle)	4542 (0.225 pts/cycle)
fft_real32x32_ie	FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	13660 (0.075 pts/cycle)	9533 (0.107 pts/cycle)
fft_real32x32_ie	FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	16924 (0.061 pts/cycle)	14235 (0.072 pts/cycle)
ifft_real32x16_ie	Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024	11314 (0.091 pts/cycle)	9936 (0.103 pts/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements	
			RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
ifft_real32x16_ie_24p	Inverse FFT on Real Data with Optimized Memory Usage (24-bit packed input/outputs, 32-bit data, 16-bit twiddles)	N=1024	13966 (0.073 pts/cycle)	12330 (0.083 pts/cycle)
ifft_real24x24_ie	Inverse FFT on Real Data with Optimized Memory Usage (24-bit input/outputs, 24-bit twiddles)	N=1024	11171 (0.092 pts/cycle)	9804 (0.104 pts/cycle)
ifft_real24x24_ie_24p	Inverse FFT on Real Data with Optimized Memory Usage (24-bit packed input/outputs, 24-bit data, 24-bit twiddles)	N=1024	14929 (0.069 pts/cycle)	13820 (0.074 pts/cycle)
ifft_real16x16_ie	Inverse FFT on Real Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	12918 (0.079 pts/cycle)	5845 (0.175 pts/cycle)
ifft_real32x32_ie	Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	13671 (0.075 pts/cycle)	9530 (0.107 pts/cycle)
ifft_real32x32_ie	Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024	16939 (0.060 pts/cycle)	14242 (0.072 pts/cycle)
fft_realf_ie	FFT on Real Data with Optimized Memory Usage (floating point data)	N=4096	58792 (0.070 pts/cycle)	57213 (0.072 pts/cycle)
ifft_realf_ie	Inverse FFT on Real Data with Optimized Memory Usage (floating point data)	N=4096	58802 (0.070 pts/cycle)	58232 (0.070 pts/cycle)
DCT				
dct_24x24	Discrete Cosine Transform, Type II (24-bit input/outputs, 24-bit twiddles)	N=32, scalingOpt=3	239 (cycles)	200 (cycles)
dct_32x16	Discrete Cosine Transform, Type II (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	232 (cycles)	200 (cycles)
dct_32x32	Discrete Cosine Transform, Type II (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	332 (cycles)	238 (cycles)
dct_16x16	Discrete Cosine Transform, Type II (16-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	291 (cycles)	213 (cycles)
dct4_32x16	Discrete Cosine Transform, Type IV (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	325 (cycles)	297 (cycles)
dct4_32x32	Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	386 (cycles)	349 (cycles)
dct4_24x24	Discrete Cosine Transform, Type IV (24-bit input/outputs, 24-bit twiddles)	N=32, scalingOpt=3	331 (cycles)	294 (cycles)
mdct_32x16	Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	432 (cycles)	399 (cycles)
mdct_32x32	Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	498 (cycles)	453 (cycles)
mdct_24x24	Modified Discrete Cosine Transform (24-bit input/outputs, 24-bit twiddles)	N=32, scalingOpt=3	444 (cycles)	393 (cycles)
imdct_32x16	Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	436 (cycles)	399 (cycles)
imdct_32x32	Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	498 (cycles)	452 (cycles)
imdct_24x24	Inverse Modified Discrete Cosine Transform (24-bit input/outputs, 24-bit twiddles)	N=32, scalingOpt=3	442 (cycles)	395 (cycles)
dct2d_8x16	2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output)	N=8, L=1024, scalingOpt=0	296998 (290.0 cycles/block)	267286 (261.0 cycles/block)
idct2d_16x8	2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output)	N=8, L=1024, scalingOpt=0	348200 (340.0 cycles/block)	289816 (283.0 cycles/block)
dctf	Discrete Cosine Transform, Type II (floating point data)	N=64	827 (cycles)	740 (cycles)

Functions Performance

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
FIR Filters			
Filtering			
bkfir16x16_process	N=80; M=256	5496 (3.7 MACs/cycle)	2886 (7.1 MACs/cycle)
bkfir16x16_process	N=2048; M=8	12579 (1.3 MACs/cycle)	10010 (1.6 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
bkfir16x16_process	N=160; M=8	1015 (1.3 MACs/cycle)	806 (1.6 MACs/cycle)
bkfir16x16_process	N=160; M=16	1355 (1.9 MACs/cycle)	926 (2.8 MACs/cycle)
bkfir16x16_process	N=1024; M=32	12580 (2.6 MACs/cycle)	7962 (4.1 MACs/cycle)
bkfira16x16_process	N=80; M=256	8202 (2.5 MACs/cycle)	3124 (6.6 MACs/cycle)
bkfira16x16_process	N=2048; M=8	18474 (0.9 MACs/cycle)	16421 (1.0 MACs/cycle)
bkfira16x16_process	N=160; M=8	1482 (0.9 MACs/cycle)	1317 (1.0 MACs/cycle)
bkfira16x16_process	N=160; M=16	1962 (1.3 MACs/cycle)	1637 (1.6 MACs/cycle)
bkfira16x16_process	N=1024; M=32	18475 (1.8 MACs/cycle)	10540 (3.1 MACs/cycle)
bkfir24x24_process	N: 80; M: 256	5485 (3.7 MACs/cycle)	5434 (3.8 MACs/cycle)
bkfir24x24_process	N: 2048; M: 8	12324 (1.3 MACs/cycle)	11289 (1.5 MACs/cycle)
bkfir24x24_process	N: 160; M: 8	996 (1.3 MACs/cycle)	904 (1.4 MACs/cycle)
bkfir24x24_process	N: 160; M: 16	1336 (1.9 MACs/cycle)	1244 (2.1 MACs/cycle)
bkfir24x24_process	N: 1024; M: 32	12452 (2.6 MACs/cycle)	11928 (2.7 MACs/cycle)
bkfir24x24p_process	N: 80; M: 256	5606 (3.7 MACs/cycle)	5477 (3.7 MACs/cycle)
bkfir24x24p_process	N: 2048; M: 8	15402 (1.1 MACs/cycle)	12319 (1.3 MACs/cycle)
bkfir24x24p_process	N: 160; M: 8	1241 (1.0 MACs/cycle)	990 (1.3 MACs/cycle)
bkfir24x24p_process	N: 160; M: 16	1576 (1.6 MACs/cycle)	1326 (1.9 MACs/cycle)
bkfir24x24p_process	N: 1024; M: 32	13989 (2.3 MACs/cycle)	12442 (2.6 MACs/cycle)
bkfira24x24_process	N: 80; M: 256	5529 (3.7 MACs/cycle)	5477 (3.7 MACs/cycle)
bkfira24x24_process	N: 2048; M: 8	13357 (1.2 MACs/cycle)	12318 (1.3 MACs/cycle)
bkfira24x24_process	N: 160; M: 8	1084 (1.2 MACs/cycle)	989 (1.3 MACs/cycle)
bkfira24x24_process	N: 160; M: 16	1419 (1.8 MACs/cycle)	1325 (1.9 MACs/cycle)
bkfira24x24_process	N: 1024; M: 32	12966 (2.5 MACs/cycle)	12441 (2.6 MACs/cycle)
bkfir32x16_process	N: 80; M: 256	5512 (3.7 MACs/cycle)	5452 (3.8 MACs/cycle)
bkfir32x16_process	N: 2048; M: 8	13090 (1.3 MACs/cycle)	11799 (1.4 MACs/cycle)
bkfir32x16_process	N: 160; M: 8	1054 (1.2 MACs/cycle)	942 (1.4 MACs/cycle)
bkfir32x16_process	N: 160; M: 16	1394 (1.8 MACs/cycle)	1282 (2.0 MACs/cycle)
bkfir32x16_process	N: 1024; M: 32	12834 (2.6 MACs/cycle)	12182 (2.7 MACs/cycle)
bkfir32x32_process	N: 80; M: 256	10911 (1.9 MACs/cycle)	10863 (1.9 MACs/cycle)
bkfir32x32_process	N: 2048; M: 8	24608 (0.7 MACs/cycle)	23574 (0.7 MACs/cycle)
bkfir32x32_process	N: 160; M: 8	1952 (0.7 MACs/cycle)	1861 (0.7 MACs/cycle)
bkfir32x32_process	N: 160; M: 16	2592 (1.0 MACs/cycle)	2501 (1.0 MACs/cycle)
bkfir32x32_process	N: 1024; M: 32	24608 (1.3 MACs/cycle)	24085 (1.4 MACs/cycle)
bkfira32x16_process	N: 80; M: 256	5587 (3.7 MACs/cycle)	5506 (3.7 MACs/cycle)
bkfira32x16_process	N: 2048; M: 8	14891 (1.1 MACs/cycle)	13087 (1.3 MACs/cycle)
bkfira32x16_process	N: 160; M: 8	1203 (1.1 MACs/cycle)	1049 (1.2 MACs/cycle)
bkfira32x16_process	N: 160; M: 16	1537 (1.7 MACs/cycle)	1385 (1.8 MACs/cycle)
bkfira32x16_process	N: 1024; M: 32	13733 (2.4 MACs/cycle)	12824 (2.6 MACs/cycle)
bkfira32x32_process	N=80; M=256	10945 (1.9 MACs/cycle)	10916 (1.9 MACs/cycle)
bkfira32x32_process	N=2048; M=8	24627 (0.7 MACs/cycle)	24103 (0.7 MACs/cycle)
bkfira32x32_process	N=160; M=8	1970 (0.6 MACs/cycle)	1918 (0.7 MACs/cycle)
bkfira32x32_process	N=160; M=16	2645 (1.0 MACs/cycle)	2594 (1.0 MACs/cycle)
bkfira32x32_process	N=1024; M=32	24876 (1.3 MACs/cycle)	24610 (1.3 MACs/cycle)
cxfir16x16_process	N=80; M=128	10910 (3.8 MACs/cycle)	6808 (6.0 MACs/cycle)
cxfir16x16_process	N=2048; M=8	32799 (2.0 MACs/cycle)	30744 (2.1 MACs/cycle)
cxfir16x16_process	N=160; M=8	2591 (2.0 MACs/cycle)	2423 (2.1 MACs/cycle)
cxfir16x16_process	N=160; M=16	3871 (2.6 MACs/cycle)	2908 (3.5 MACs/cycle)
cxfir16x16_process	N=1024; M=32	40991 (3.2 MACs/cycle)	28444 (4.6 MACs/cycle)
cxfir32x16_process	N: 80; M: 128	11007 (3.7 MACs/cycle)	10899 (3.8 MACs/cycle)
cxfir32x16_process	N: 2048; M: 8	35356 (1.9 MACs/cycle)	32786 (2.0 MACs/cycle)
cxfir32x16_process	N: 160; M: 8	2788 (1.8 MACs/cycle)	2577 (2.0 MACs/cycle)
cxfir32x16_process	N: 160; M: 16	4068 (2.5 MACs/cycle)	3857 (2.7 MACs/cycle)
cxfir32x16_process	N: 1024; M: 32	42268 (3.1 MACs/cycle)	40977 (3.2 MACs/cycle)
cxfir24x24_process	N: 80; M: 128	10770 (3.8 MACs/cycle)	10723 (3.8 MACs/cycle)
cxfir24x24_process	N: 2048; M: 8	29215 (2.2 MACs/cycle)	28183 (2.3 MACs/cycle)
cxfir24x24_process	N: 160; M: 8	2311 (2.2 MACs/cycle)	2221 (2.3 MACs/cycle)
cxfir24x24_process	N: 160; M: 16	3590 (2.9 MACs/cycle)	3502 (2.9 MACs/cycle)
cxfir24x24_process	N: 1024; M: 32	39198 (3.3 MACs/cycle)	38677 (3.4 MACs/cycle)
cxfir32x32_process	N=80; M=128	21274 (1.9 MACs/cycle)	21148 (1.9 MACs/cycle)
cxfir32x32_process	N=2048; M=8	52259 (1.3 MACs/cycle)	49178 (1.3 MACs/cycle)
cxfir32x32_process	N=160; M=8	4114 (1.2 MACs/cycle)	3865 (1.3 MACs/cycle)
cxfir32x32_process	N=160; M=16	6674 (1.5 MACs/cycle)	6426 (1.6 MACs/cycle)
cxfir32x32_process	N=1024; M=32	75297 (1.7 MACs/cycle)	73754 (1.8 MACs/cycle)
bkfiraf_process	N: 512; M: 32	12074 (1.4 MACs/cycle)	11295 (1.5 MACs/cycle)
bkfiraf_process	N: 1024; M: 32	24106 (1.4 MACs/cycle)	22558 (1.5 MACs/cycle)
bkfiraf_process	N: 1024; M: 256	160298 (1.6 MACs/cycle)	158752 (1.7 MACs/cycle)
bkfiraf_process	N: 1024; M: 512	315946 (1.7 MACs/cycle)	314400 (1.7 MACs/cycle)
bkfirf_process	N: 512; M: 32	9831 (1.7 MACs/cycle)	9374 (1.7 MACs/cycle)
bkfirf_process	N: 1024; M: 32	19623 (1.7 MACs/cycle)	18717 (1.8 MACs/cycle)
bkfirf_process	N: 1024; M: 256	134311 (2.0 MACs/cycle)	133405 (2.0 MACs/cycle)
bkfirf_process	N: 1024; M: 512	265383 (2.0 MACs/cycle)	264477 (2.0 MACs/cycle)
cxfirf_process	N: 512; M: 32	35619 (1.8 MACs/cycle)	35100 (1.9 MACs/cycle)
cxfirf_process	N: 512; M: 256	264994 (2.0 MACs/cycle)	264476 (2.0 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
Decimation			
firdec16x16_process	N=1024; M=2; D=2	9786 (0.2 MACs/cycle)	8238 (0.2 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=2	82233 (3.2 MACs/cycle)	48175 (5.4 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=2	83258 (3.2 MACs/cycle)	48943 (5.4 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=2	84538 (3.2 MACs/cycle)	49455 (5.4 MACs/cycle)
firdec16x16_process	N=80; M=256; D=2	6477 (3.2 MACs/cycle)	3805 (5.4 MACs/cycle)
firdec16x16_process	N=1024; M=2; D=3	11075 (0.2 MACs/cycle)	6964 (0.3 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=3	91965 (2.9 MACs/cycle)	55599 (4.7 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=3	93246 (2.9 MACs/cycle)	56367 (4.7 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=3	94526 (2.8 MACs/cycle)	57135 (4.7 MACs/cycle)
firdec16x16_process	N=1024; M=2; D=4	11066 (0.2 MACs/cycle)	7724 (0.3 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=4	79162 (3.3 MACs/cycle)	39724 (6.6 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=4	81210 (3.3 MACs/cycle)	41004 (6.5 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=4	83002 (3.2 MACs/cycle)	42028 (6.4 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=5	93759 (2.8 MACs/cycle)	57900 (4.5 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=5	95039 (2.8 MACs/cycle)	58668 (4.5 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=7	94783 (2.8 MACs/cycle)	58412 (4.5 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=7	96064 (2.8 MACs/cycle)	59180 (4.5 MACs/cycle)
firdec32x16_process	N: 1024; M: 2; D: 2	10684 (0.2 MACs/cycle)	8746 (0.2 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 2	74683 (3.5 MACs/cycle)	72619 (3.6 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 2	76732 (3.5 MACs/cycle)	74667 (3.6 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 2	76732 (3.5 MACs/cycle)	74667 (3.6 MACs/cycle)
firdec32x16_process	N: 80; M: 256; D: 2	5889 (3.5 MACs/cycle)	5711 (3.6 MACs/cycle)
firdec32x16_process	N: 1024; M: 2; D: 3	15554 (0.1 MACs/cycle)	12716 (0.2 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 3	79809 (3.3 MACs/cycle)	76844 (3.4 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 3	79810 (3.3 MACs/cycle)	76844 (3.5 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 3	79810 (3.3 MACs/cycle)	76844 (3.5 MACs/cycle)
firdec32x16_process	N: 1024; M: 2; D: 4	19913 (0.1 MACs/cycle)	16177 (0.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 4	81353 (3.2 MACs/cycle)	77233 (3.4 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 4	85449 (3.1 MACs/cycle)	81329 (3.3 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 4	85449 (3.1 MACs/cycle)	81329 (3.3 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 5	153271 (1.7 MACs/cycle)	99367 (2.6 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 5	155447 (1.7 MACs/cycle)	100775 (2.6 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 7	155319 (1.7 MACs/cycle)	100391 (2.6 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 7	157496 (1.7 MACs/cycle)	101799 (2.6 MACs/cycle)
firdec24x24_process	N: 1024; M: 2; D: 2	10174 (0.2 MACs/cycle)	8234 (0.2 MACs/cycle)
firdec24x24_process	N: 1024; M: 256; D: 2	74301 (3.5 MACs/cycle)	72235 (3.6 MACs/cycle)
firdec24x24_process	N: 1024; M: 260; D: 2	76350 (3.5 MACs/cycle)	74283 (3.6 MACs/cycle)
firdec24x24_process	N: 1024; M: 261; D: 2	76350 (3.5 MACs/cycle)	74283 (3.6 MACs/cycle)
firdec24x24_process	N: 1024; M: 2; D: 3	13250 (0.2 MACs/cycle)	11180 (0.2 MACs/cycle)
firdec24x24_process	N: 1024; M: 256; D: 3	79554 (3.3 MACs/cycle)	77100 (3.4 MACs/cycle)
firdec24x24_process	N: 1024; M: 260; D: 3	81091 (3.3 MACs/cycle)	78508 (3.4 MACs/cycle)
firdec24x24_process	N: 1024; M: 261; D: 3	81091 (3.3 MACs/cycle)	78508 (3.4 MACs/cycle)
firdec24x24_process	N: 1024; M: 2; D: 4	17739 (0.1 MACs/cycle)	14385 (0.1 MACs/cycle)
firdec24x24_process	N: 1024; M: 256; D: 4	83915 (3.1 MACs/cycle)	80049 (3.3 MACs/cycle)
firdec24x24_process	N: 1024; M: 260; D: 4	85836 (3.1 MACs/cycle)	81969 (3.2 MACs/cycle)
firdec24x24_process	N: 1024; M: 261; D: 4	85835 (3.1 MACs/cycle)	81969 (3.3 MACs/cycle)
firdec24x24_process	N: 1024; M: 256; D: 5	160315 (1.6 MACs/cycle)	103850 (2.5 MACs/cycle)
firdec24x24_process	N: 1024; M: 260; D: 5	162619 (1.6 MACs/cycle)	105642 (2.5 MACs/cycle)
firdec24x24_process	N: 1024; M: 256; D: 7	162363 (1.6 MACs/cycle)	104874 (2.5 MACs/cycle)
firdec24x24_process	N: 1024; M: 260; D: 7	164667 (1.6 MACs/cycle)	106666 (2.5 MACs/cycle)
firdec24x24_process	N: 80; M: 256; D: 2	5862 (3.5 MACs/cycle)	5681 (3.6 MACs/cycle)
firdec32x32_process	N=1024; M=2; D=2	9530 (0.2 MACs/cycle)	7982 (0.3 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=2	138804 (1.9 MACs/cycle)	137258 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=2	140853 (1.9 MACs/cycle)	139306 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=2	142901 (1.9 MACs/cycle)	141354 (1.9 MACs/cycle)
firdec32x32_process	N=80; M=256; D=2	10892 (1.9 MACs/cycle)	10760 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=2; D=3	15673 (0.1 MACs/cycle)	9520 (0.2 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=3	144696 (1.8 MACs/cycle)	138796 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=3	146489 (1.8 MACs/cycle)	140844 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=3	148793 (1.8 MACs/cycle)	142892 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=2; D=4	17718 (0.1 MACs/cycle)	9256 (0.2 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=4	147510 (1.8 MACs/cycle)	138280 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=4	148534 (1.8 MACs/cycle)	140328 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=4	151606 (1.8 MACs/cycle)	142376 (1.9 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=5	180031 (1.5 MACs/cycle)	158766 (1.7 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=5	182591 (1.5 MACs/cycle)	161070 (1.7 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=7	182079 (1.4 MACs/cycle)	159790 (1.6 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=7	184640 (1.4 MACs/cycle)	162094 (1.6 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 2	142896 (1.8 MACs/cycle)	139815 (1.9 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 2	273969 (1.9 MACs/cycle)	270887 (1.9 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 3	175669 (1.5 MACs/cycle)	173608 (1.5 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 3	331318 (1.6 MACs/cycle)	329256 (1.6 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 4	154672 (1.7 MACs/cycle)	151078 (1.7 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
firdecf_process	N: 1024; M: 512; D: 4	285744 (1.8 MACs/cycle)	282150 (1.9 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 8	319543 (0.8 MACs/cycle)	246825 (1.1 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 8	581687 (0.9 MACs/cycle)	443433 (1.2 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 11	325687 (0.8 MACs/cycle)	249897 (1.0 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 11	587831 (0.9 MACs/cycle)	446505 (1.2 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 23	350263 (0.7 MACs/cycle)	262185 (1.0 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 23	612406 (0.9 MACs/cycle)	458793 (1.1 MACs/cycle)
Interpolation			
firinterp16x16_process	N=1024; M=4; D=2	12465 (0.7 MACs/cycle)	9005 (0.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=2	141232 (3.7 MACs/cycle)	73006 (7.2 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=2	143281 (3.7 MACs/cycle)	74285 (7.2 MACs/cycle)
firinterp16x16_process	N=1024; M=4; D=3	20912 (0.6 MACs/cycle)	15921 (0.8 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=3	214064 (3.7 MACs/cycle)	127281 (6.2 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=3	217137 (3.7 MACs/cycle)	130097 (6.1 MACs/cycle)
firinterp16x16_process	N=1024; M=4; D=4	26293 (0.6 MACs/cycle)	19249 (0.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=4	283828 (3.7 MACs/cycle)	178993 (5.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=4	287924 (3.7 MACs/cycle)	182577 (5.8 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=5	364227 (3.6 MACs/cycle)	188464 (7.0 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=5	369346 (3.6 MACs/cycle)	191664 (6.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=7	509123 (3.6 MACs/cycle)	262960 (7.0 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=7	516290 (3.6 MACs/cycle)	267440 (7.0 MACs/cycle)
firinterp16x16_process	N=80; M=204; D=2	8998 (3.6 MACs/cycle)	4725 (6.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 4; D: 2	10159 (0.8 MACs/cycle)	8996 (0.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 2	138926 (3.8 MACs/cycle)	137765 (3.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 2	140975 (3.8 MACs/cycle)	139812 (3.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 4; D: 3	14640 (0.8 MACs/cycle)	14373 (0.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 3	207792 (3.8 MACs/cycle)	207525 (3.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 3	210865 (3.8 MACs/cycle)	210597 (3.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 4; D: 4	18353 (0.9 MACs/cycle)	19237 (0.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 4	275888 (3.8 MACs/cycle)	276773 (3.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 4	279984 (3.8 MACs/cycle)	280869 (3.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 5	353217 (3.7 MACs/cycle)	356013 (3.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 5	358336 (3.7 MACs/cycle)	361133 (3.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 7	493505 (3.7 MACs/cycle)	497837 (3.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 7	500672 (3.7 MACs/cycle)	505005 (3.7 MACs/cycle)
firinterp32x16_process	N: 80; M: 204; D: 2	8816 (3.7 MACs/cycle)	8716 (3.7 MACs/cycle)
firinterp24x24_process	N: 1024; M: 4; D: 2	10031 (0.8 MACs/cycle)	9124 (0.9 MACs/cycle)
firinterp24x24_process	N: 1024; M: 256; D: 2	138798 (3.8 MACs/cycle)	137893 (3.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 260; D: 2	140847 (3.8 MACs/cycle)	139940 (3.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 4; D: 3	14640 (0.8 MACs/cycle)	14628 (0.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 256; D: 3	207792 (3.8 MACs/cycle)	207780 (3.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 260; D: 3	210865 (3.8 MACs/cycle)	210852 (3.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 4; D: 4	18354 (0.9 MACs/cycle)	19365 (0.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 256; D: 4	275889 (3.8 MACs/cycle)	276901 (3.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 260; D: 4	279985 (3.8 MACs/cycle)	280997 (3.8 MACs/cycle)
firinterp24x24_process	N: 1024; M: 256; D: 5	353217 (3.7 MACs/cycle)	357805 (3.7 MACs/cycle)
firinterp24x24_process	N: 1024; M: 260; D: 5	358336 (3.7 MACs/cycle)	362925 (3.7 MACs/cycle)
firinterp24x24_process	N: 1024; M: 256; D: 7	493505 (3.7 MACs/cycle)	500397 (3.7 MACs/cycle)
firinterp24x24_process	N: 1024; M: 260; D: 7	500672 (3.7 MACs/cycle)	507565 (3.7 MACs/cycle)
firinterp24x24_process	N: 80; M: 204; D: 2	8806 (3.7 MACs/cycle)	8726 (3.7 MACs/cycle)
firinterp32x32_process	N=1024; M=4; D=2	17473 (0.5 MACs/cycle)	15409 (0.5 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=2	275520 (1.9 MACs/cycle)	273458 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=2	279617 (1.9 MACs/cycle)	277553 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=4; D=3	33604 (0.4 MACs/cycle)	29745 (0.4 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=3	421444 (1.9 MACs/cycle)	417585 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=3	427589 (1.9 MACs/cycle)	423729 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=4; D=4	42309 (0.4 MACs/cycle)	36144 (0.5 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=4	559428 (1.9 MACs/cycle)	553264 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=4	567620 (1.9 MACs/cycle)	561456 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=5	698695 (1.9 MACs/cycle)	691250 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=5	708934 (1.9 MACs/cycle)	701490 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=7	975175 (1.9 MACs/cycle)	966194 (1.9 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=7	989510 (1.9 MACs/cycle)	980530 (1.9 MACs/cycle)
firinterp32x32_process	N=80; M=204; D=2	17424 (1.9 MACs/cycle)	17249 (1.9 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 2	270902 (1.9 MACs/cycle)	269353 (1.9 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 2	533048 (2.0 MACs/cycle)	531500 (2.0 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 3	400698 (2.0 MACs/cycle)	398890 (2.0 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 3	793914 (2.0 MACs/cycle)	792106 (2.0 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 4	532796 (2.0 MACs/cycle)	530220 (2.0 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 4	1057085 (2.0 MACs/cycle)	1054510 (2.0 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
firinterpf_process	N: 1024; M: 256; D: 8	1095239 (1.9 MACs/cycle)	1085359 (1.9 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 8	2143815 (2.0 MACs/cycle)	2133935 (2.0 MACs/cycle)
Correlation, Convolution, Dispreading, LMS			
fir_convol16x16	N=80; M=56	1557 (2.9 MACs/cycle)	811 (5.5 MACs/cycle)
fir_convol16x16	N=256; M=80	6416 (3.2 MACs/cycle)	3293 (6.2 MACs/cycle)
fir_convol32x16	N: 80; M: 56	1323 (3.4 MACs/cycle)	1314 (3.4 MACs/cycle)
fir_convol32x16	N: 256; M: 80	5697 (3.6 MACs/cycle)	5686 (3.6 MACs/cycle)
fir_convol24x24	N: 80; M: 56	1314 (3.4 MACs/cycle)	1304 (3.4 MACs/cycle)
fir_convol24x24	N: 256; M: 80	5667 (3.6 MACs/cycle)	5655 (3.6 MACs/cycle)
fir_convol32x32	N=80; M=56	2788 (1.6 MACs/cycle)	2701 (1.7 MACs/cycle)
fir_convol32x32	N=256; M=80	11932 (1.7 MACs/cycle)	11669 (1.8 MACs/cycle)
fir_convola16x16	N=80; M=56	1761 (2.5 MACs/cycle)	920 (4.9 MACs/cycle)
fir_convola16x16	N=256; M=80	6841 (3.0 MACs/cycle)	3483 (5.9 MACs/cycle)
fir_convola32x16	N: 80; M: 56	1599 (2.8 MACs/cycle)	1462 (3.1 MACs/cycle)
fir_convola32x16	N: 256; M: 80	6274 (3.3 MACs/cycle)	5945 (3.4 MACs/cycle)
fir_convola24x24	N: 80; M: 56	1612 (2.8 MACs/cycle)	1445 (3.1 MACs/cycle)
fir_convola24x24	N: 256; M: 80	6231 (3.3 MACs/cycle)	5867 (3.5 MACs/cycle)
fir_convola32x32	N=80; M=56	2893 (1.5 MACs/cycle)	2814 (1.6 MACs/cycle)
fir_convola32x32	N=256; M=80	11909 (1.7 MACs/cycle)	11805 (1.7 MACs/cycle)
cxfir_convol32x16	N: 80; M: 56	4868 (3.7 MACs/cycle)	4842 (3.7 MACs/cycle)
cxfir_convol32x16	N: 256; M: 80	21660 (3.8 MACs/cycle)	21589 (3.8 MACs/cycle)
cxfir_convola32x16	N: 80; M: 56	5303 (3.4 MACs/cycle)	5077 (3.5 MACs/cycle)
cxfir_convola32x16	N: 256; M: 80	22606 (3.6 MACs/cycle)	22081 (3.7 MACs/cycle)
fir_lconvola16x16	N=80; M=56	2209 (2.0 MACs/cycle)	1163 (3.9 MACs/cycle)
fir_lconvola16x16	N=256; M=80	7351 (2.8 MACs/cycle)	3794 (5.4 MACs/cycle)
fir_lconvola32x32	N=80; M=56	3449 (1.3 MACs/cycle)	3273 (1.4 MACs/cycle)
fir_lconvola32x32	N=256; M=80	12720 (1.6 MACs/cycle)	12394 (1.7 MACs/cycle)
fir_xcorr16x16	N=80; M=56	1372 (3.3 MACs/cycle)	806 (5.6 MACs/cycle)
fir_xcorr16x16	N=256; M=80	5855 (3.5 MACs/cycle)	3288 (6.2 MACs/cycle)
fir_xcorr32x16	N: 80; M: 56	1341 (3.3 MACs/cycle)	1293 (3.5 MACs/cycle)
fir_xcorr32x16	N: 256; M: 80	5759 (3.6 MACs/cycle)	5622 (3.6 MACs/cycle)
fir_xcorr24x24	N: 80; M: 56	1331 (3.4 MACs/cycle)	1282 (3.5 MACs/cycle)
fir_xcorr24x24	N: 256; M: 80	5728 (3.6 MACs/cycle)	5590 (3.7 MACs/cycle)
fir_xcorr32x32	N=80; M=56	2726 (1.6 MACs/cycle)	2640 (1.7 MACs/cycle)
fir_xcorr32x32	N=256; M=80	11738 (1.7 MACs/cycle)	11475 (1.8 MACs/cycle)
fir_xcorra16x16	N=80; M=56	1506 (3.0 MACs/cycle)	918 (4.9 MACs/cycle)
fir_xcorra16x16	N=256; M=80	6057 (3.4 MACs/cycle)	3479 (5.9 MACs/cycle)
fir_xcorra32x16	N: 80; M: 56	1599 (2.8 MACs/cycle)	1457 (3.1 MACs/cycle)
fir_xcorra32x16	N: 256; M: 80	6274 (3.3 MACs/cycle)	5937 (3.4 MACs/cycle)
fir_xcorra24x24	N: 80; M: 56	1628 (2.8 MACs/cycle)	1459 (3.1 MACs/cycle)
fir_xcorra24x24	N: 256; M: 80	6291 (3.3 MACs/cycle)	5901 (3.5 MACs/cycle)
fir_xcorra32x32	N=80; M=56	2884 (1.6 MACs/cycle)	2807 (1.6 MACs/cycle)
fir_xcorra32x32	N=256; M=80	11900 (1.7 MACs/cycle)	11798 (1.7 MACs/cycle)
fir_lxcorra16x16	N=80; M=56	2208 (2.0 MACs/cycle)	1159 (3.9 MACs/cycle)
fir_lxcorra16x16	N=256; M=80	7348 (2.8 MACs/cycle)	3796 (5.4 MACs/cycle)
fir_lxcorra32x32	N=80; M=56	3447 (1.3 MACs/cycle)	3272 (1.4 MACs/cycle)
fir_lxcorra32x32	N=256; M=80	12719 (1.6 MACs/cycle)	12396 (1.7 MACs/cycle)
fir_acorr16x16	N=80	1859 (3.4 MACs/cycle)	1052 (6.1 MACs/cycle)
fir_acorr16x16	N=256	17128 (3.8 MACs/cycle)	8927 (7.3 MACs/cycle)
fir_acorr24x24	N: 80	1778 (3.6 MACs/cycle)	1771 (3.6 MACs/cycle)
fir_acorr24x24	N: 256	16892 (3.9 MACs/cycle)	16884 (3.9 MACs/cycle)
fir_acorr32x32	N=80	3685 (1.7 MACs/cycle)	3600 (1.8 MACs/cycle)
fir_acorr32x32	N=256	34266 (1.9 MACs/cycle)	34005 (1.9 MACs/cycle)
fir_acorra16x16	N=80	2018 (3.2 MACs/cycle)	1172 (5.5 MACs/cycle)
fir_acorra16x16	N=256	17507 (3.7 MACs/cycle)	9203 (7.1 MACs/cycle)
fir_acorra24x24	N: 80	2026 (3.2 MACs/cycle)	1923 (3.3 MACs/cycle)
fir_acorra24x24	N: 256	17580 (3.7 MACs/cycle)	17281 (3.8 MACs/cycle)
fir_acorra32x32	N=80	3870 (1.7 MACs/cycle)	3775 (1.7 MACs/cycle)
fir_acorra32x32	N=256	34758 (1.9 MACs/cycle)	34487 (1.9 MACs/cycle)
fir_lacorra16x16	N=80	1437 (2.2 MACs/cycle)	753 (4.2 MACs/cycle)
fir_lacorra16x16	N=256	10017 (3.3 MACs/cycle)	5044 (6.5 MACs/cycle)
fir_lacorra32x32	N=80	2367 (1.4 MACs/cycle)	2268 (1.4 MACs/cycle)
fir_lacorra32x32	N=256	18733 (1.7 MACs/cycle)	18404 (1.8 MACs/cycle)
fir_blms16x16	N=80; M=16	1229 (2.1 MACs/cycle)	710 (3.6 MACs/cycle)
fir_blms16x16	N=64; M=16	1026 (2.0 MACs/cycle)	596 (3.4 MACs/cycle)
fir_blms16x16	N=64; M=64	2856 (2.9 MACs/cycle)	1570 (5.2 MACs/cycle)
fir_blms16x16	N=80; M=64	3445 (3.0 MACs/cycle)	1875 (5.5 MACs/cycle)
fir_blms16x16	N=80; M=128	6397 (3.2 MACs/cycle)	3419 (6.0 MACs/cycle)
fir_blms16x16	N=64; M=128	5298 (3.1 MACs/cycle)	2856 (5.7 MACs/cycle)
fir_blms16x32	N: 80; M: 16	1394 (1.8 MACs/cycle)	1342 (1.9 MACs/cycle)
fir_blms16x32	N: 64; M: 16	1164 (1.8 MACs/cycle)	1114 (1.8 MACs/cycle)
fir_blms16x32	N: 64; M: 64	3161 (2.6 MACs/cycle)	3051 (2.7 MACs/cycle)
fir_blms16x32	N: 80; M: 64	3781 (2.7 MACs/cycle)	3666 (2.8 MACs/cycle)
fir_blms16x32	N: 80; M: 128	6933 (3.0 MACs/cycle)	6739 (3.0 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
fir_blms16x32	N: 64; M: 128	5803 (2.8 MACs/cycle)	5610 (2.9 MACs/cycle)
fir_blms24x24	N: 80; M: 16	1024 (2.5 MACs/cycle)	972 (2.6 MACs/cycle)
fir_blms24x24	N: 64; M: 16	856 (2.4 MACs/cycle)	808 (2.5 MACs/cycle)
fir_blms24x24	N: 64; M: 64	2657 (3.1 MACs/cycle)	2573 (3.2 MACs/cycle)
fir_blms24x24	N: 80; M: 64	3211 (3.2 MACs/cycle)	3120 (3.3 MACs/cycle)
fir_blms24x24	N: 80; M: 128	6122 (3.3 MACs/cycle)	5985 (3.4 MACs/cycle)
fir_blms24x24	N: 64; M: 128	5058 (3.2 MACs/cycle)	4924 (3.3 MACs/cycle)
fir_blms32x32	N=80; M=16	2059 (1.2 MACs/cycle)	1993 (1.3 MACs/cycle)
fir_blms32x32	N=64; M=16	1682 (1.2 MACs/cycle)	1625 (1.3 MACs/cycle)
fir_blms32x32	N=64; M=64	5032 (1.6 MACs/cycle)	4937 (1.7 MACs/cycle)
fir_blms32x32	N=80; M=64	6176 (1.7 MACs/cycle)	6071 (1.7 MACs/cycle)
fir_blms32x32	N=80; M=128	11664 (1.8 MACs/cycle)	11513 (1.8 MACs/cycle)
fir_blms32x32	N=64; M=128	9497 (1.7 MACs/cycle)	9350 (1.8 MACs/cycle)
fir_convolf	N: 80; M: 56	2793 (1.6 MACs/cycle)	2684 (1.7 MACs/cycle)
fir_convolf	N: 256; M: 80	11936 (1.7 MACs/cycle)	11607 (1.8 MACs/cycle)
fir_convolaf	N: 80; M: 56	2935 (1.5 MACs/cycle)	2677 (1.7 MACs/cycle)
fir_convolaf	N: 256; M: 80	12038 (1.7 MACs/cycle)	11360 (1.8 MACs/cycle)
fir_xcorrf	N: 80; M: 56	2690 (1.7 MACs/cycle)	2624 (1.7 MACs/cycle)
fir_xcorrf	N: 256; M: 80	11614 (1.8 MACs/cycle)	11415 (1.8 MACs/cycle)
cxfir_xcorrf	N: 80; M: 56	9306 (1.9 MACs/cycle)	9242 (1.9 MACs/cycle)
cxfir_xcorrf	N: 256; M: 80	42010 (2.0 MACs/cycle)	41813 (2.0 MACs/cycle)
fir_xcorraf	N: 80; M: 56	2883 (1.6 MACs/cycle)	2651 (1.7 MACs/cycle)
fir_xcorraf	N: 256; M: 80	11964 (1.7 MACs/cycle)	11322 (1.8 MACs/cycle)
cxfir_xcorraf	N: 80; M: 56	9294 (1.9 MACs/cycle)	9244 (1.9 MACs/cycle)
cxfir_xcorraf	N: 256; M: 80	41955 (2.0 MACs/cycle)	41817 (2.0 MACs/cycle)
fir_acorrf	N: 80	3659 (1.7 MACs/cycle)	3590 (1.8 MACs/cycle)
fir_acorrf	N: 256	34150 (1.9 MACs/cycle)	33948 (1.9 MACs/cycle)
fir_acorraf	N: 80	3913 (1.6 MACs/cycle)	3666 (1.7 MACs/cycle)
fir_acorraf	N: 256	34712 (1.9 MACs/cycle)	33980 (1.9 MACs/cycle)
fir_blmsf	N: 80; M: 16	1771 (1.4 MACs/cycle)	1642 (1.6 MACs/cycle)
fir_blmsf	N: 64; M: 16	1443 (1.4 MACs/cycle)	1336 (1.5 MACs/cycle)
fir_blmsf	N: 64; M: 64	4743 (1.7 MACs/cycle)	4581 (1.8 MACs/cycle)
fir_blmsf	N: 80; M: 64	5839 (1.8 MACs/cycle)	5657 (1.8 MACs/cycle)
fir_blmsf	N: 80; M: 128	11262 (1.8 MACs/cycle)	11008 (1.9 MACs/cycle)
fir_blmsf	N: 64; M: 128	9143 (1.8 MACs/cycle)	8909 (1.8 MACs/cycle)
IIR Filters			
Biquad Filters			
bqriir16x16_df1	N=256, M=1, gain=0	1270 (5.0 cycles/(biquad*pts)	1065 (4.2 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=2, gain=1	2095 (4.1 cycles/(biquad*pts)	1578 (3.1 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=3, gain=0	3078 (4.0 cycles/(biquad*pts)	2371 (3.1 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=4, gain=1	3904 (3.8 cycles/(biquad*pts)	2884 (2.8 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=5, gain=0	4887 (3.8 cycles/(biquad*pts)	3675 (2.9 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=6, gain=1	5713 (3.7 cycles/(biquad*pts)	4186 (2.7 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=7, gain=0	6696 (3.7 cycles/(biquad*pts)	4976 (2.8 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=8, gain=1	7523 (3.7 cycles/(biquad*pts)	5488 (2.7 cycles/(biquad*pts)
bqriir16x16_df1	N=80, M=5, gain=0	1587 (4.0 cycles/(biquad*pts)	1209 (3.0 cycles/(biquad*pts)
bqriir16x16_df1	N=80, M=5, gain=1	1587 (4.0 cycles/(biquad*pts)	1209 (3.0 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=1, gain=0	1326 (5.2 cycles/(biquad*pts)	1063 (4.2 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=2, gain=1	2359 (4.6 cycles/(biquad*pts)	1585 (3.1 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=3, gain=0	3653 (4.8 cycles/(biquad*pts)	2364 (3.1 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=4, gain=1	4686 (4.6 cycles/(biquad*pts)	2886 (2.8 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=5, gain=0	5983 (4.7 cycles/(biquad*pts)	3667 (2.9 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=6, gain=1	7016 (4.6 cycles/(biquad*pts)	4189 (2.7 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=7, gain=0	8313 (4.6 cycles/(biquad*pts)	4972 (2.8 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=8, gain=1	9347 (4.6 cycles/(biquad*pts)	5491 (2.7 cycles/(biquad*pts)
bqriir16x16_df2	N=80, M=5, gain=0	1935 (4.8 cycles/(biquad*pts)	1203 (3.0 cycles/(biquad*pts)
bqriir16x16_df2	N=80, M=5, gain=1	1936 (4.8 cycles/(biquad*pts)	1204 (3.0 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=1, gain=0	821 (3.2 cycles/(biquad*pts)	813 (3.2 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=2, gain=1	1622 (3.2 cycles/(biquad*pts)	1610 (3.1 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=3, gain=0	2422 (3.2 cycles/(biquad*pts)	2411 (3.1 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=4, gain=1	3222 (3.1 cycles/(biquad*pts)	3210 (3.1 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=5, gain=0	4022 (3.1 cycles/(biquad*pts)	4012 (3.1 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=6, gain=1	4822 (3.1 cycles/(biquad*pts)	4811 (3.1 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=7, gain=0	5622 (3.1 cycles/(biquad*pts)	5611 (3.1 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=8, gain=1	6423 (3.1 cycles/(biquad*pts)	6411 (3.1 cycles/(biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=0	1382 (3.5 cycles/(biquad*pts)	1370 (3.4 cycles/(biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=1	1382 (3.5 cycles/(biquad*pts)	1370 (3.4 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=1, gain=0	823 (3.2 cycles/(biquad*pts)	813 (3.2 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=2, gain=1	1690 (3.3 cycles/(biquad*pts)	1610 (3.1 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=3, gain=0	2556 (3.3 cycles/(biquad*pts)	2411 (3.1 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=4, gain=1	3422 (3.3 cycles/(biquad*pts)	3210 (3.1 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=5, gain=0	4288 (3.4 cycles/(biquad*pts)	4011 (3.1 cycles/(biquad*pts)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
bqriir32x16_df2	N=256, M=6, gain=1	5154 (3.4 cycles/(biquad*pts)	4811 (3.1 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=7, gain=0	6020 (3.4 cycles/(biquad*pts)	5610 (3.1 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=8, gain=1	6887 (3.4 cycles/(biquad*pts)	6411 (3.1 cycles/(biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=0	1472 (3.7 cycles/(biquad*pts)	1370 (3.4 cycles/(biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=1	1472 (3.7 cycles/(biquad*pts)	1370 (3.4 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=1, gain=0	823 (3.2 cycles/(biquad*pts)	813 (3.2 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=2, gain=1	1627 (3.2 cycles/(biquad*pts)	1612 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=3, gain=0	2429 (3.2 cycles/(biquad*pts)	2414 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=4, gain=1	3231 (3.2 cycles/(biquad*pts)	3215 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=5, gain=0	4033 (3.2 cycles/(biquad*pts)	4016 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=6, gain=1	4835 (3.1 cycles/(biquad*pts)	4817 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=7, gain=0	5637 (3.1 cycles/(biquad*pts)	5617 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=8, gain=1	6440 (3.1 cycles/(biquad*pts)	6419 (3.1 cycles/(biquad*pts)
bqriir24x24_df1	N=80, M=5, gain=0	1393 (3.5 cycles/(biquad*pts)	1375 (3.4 cycles/(biquad*pts)
bqriir24x24_df1	N=80, M=5, gain=1	1393 (3.5 cycles/(biquad*pts)	1375 (3.4 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=1, gain=0	826 (3.2 cycles/(biquad*pts)	817 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=2, gain=1	1646 (3.2 cycles/(biquad*pts)	1627 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=3, gain=0	2462 (3.2 cycles/(biquad*pts)	2436 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=4, gain=1	3276 (3.2 cycles/(biquad*pts)	3243 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=5, gain=0	4091 (3.2 cycles/(biquad*pts)	4052 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=6, gain=1	4906 (3.2 cycles/(biquad*pts)	4860 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=7, gain=0	5721 (3.2 cycles/(biquad*pts)	5667 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=8, gain=1	6537 (3.2 cycles/(biquad*pts)	6475 (3.2 cycles/(biquad*pts)
bqriir24x24_df2	N=80, M=5, gain=0	1451 (3.6 cycles/(biquad*pts)	1412 (3.5 cycles/(biquad*pts)
bqriir24x24_df2	N=80, M=5, gain=1	1451 (3.6 cycles/(biquad*pts)	1411 (3.5 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=1, gain=0	1196 (4.7 cycles/(biquad*pts)	884 (3.5 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=2, gain=1	2359 (4.6 cycles/(biquad*pts)	1667 (3.3 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=3, gain=0	3527 (4.6 cycles/(biquad*pts)	2455 (3.2 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=4, gain=1	4695 (4.6 cycles/(biquad*pts)	3243 (3.2 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=5, gain=0	5863 (4.6 cycles/(biquad*pts)	4031 (3.1 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=6, gain=1	7031 (4.6 cycles/(biquad*pts)	4819 (3.1 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=7, gain=0	8199 (4.6 cycles/(biquad*pts)	5606 (3.1 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=8, gain=1	9368 (4.6 cycles/(biquad*pts)	6395 (3.1 cycles/(biquad*pts)
bqriir32x32_df1	N=80, M=5, gain=0	1903 (4.8 cycles/(biquad*pts)	1346 (3.4 cycles/(biquad*pts)
bqriir32x32_df1	N=80, M=5, gain=1	1903 (4.8 cycles/(biquad*pts)	1346 (3.4 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=1, gain=0	1012 (4.0 cycles/(biquad*pts)	1007 (3.9 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=2, gain=1	2008 (3.9 cycles/(biquad*pts)	1869 (3.7 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=3, gain=0	3000 (3.9 cycles/(biquad*pts)	2732 (3.6 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=4, gain=1	3992 (3.9 cycles/(biquad*pts)	3593 (3.5 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=5, gain=0	4984 (3.9 cycles/(biquad*pts)	4456 (3.5 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=6, gain=1	5976 (3.9 cycles/(biquad*pts)	5318 (3.5 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=7, gain=0	6968 (3.9 cycles/(biquad*pts)	6179 (3.4 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=8, gain=1	7961 (3.9 cycles/(biquad*pts)	7041 (3.4 cycles/(biquad*pts)
bqriir32x32_df2	N=80, M=5, gain=0	1684 (4.2 cycles/(biquad*pts)	1507 (3.8 cycles/(biquad*pts)
bqriir32x32_df2	N=80, M=5, gain=1	1685 (4.2 cycles/(biquad*pts)	1508 (3.8 cycles/(biquad*pts)
bqriirf_df1	N=512, M=1	3706 (7.2 cycles/(biquad*pts)	3556 (6.9 cycles/(biquad*pts)
bqriirf_df1	N=512, M=2	5232 (5.1 cycles/(biquad*pts)	5080 (5.0 cycles/(biquad*pts)
bqriirf_df1	N=512, M=3	8351 (5.4 cycles/(biquad*pts)	8193 (5.3 cycles/(biquad*pts)
bqriirf_df1	N=512, M=4	6279 (3.1 cycles/(biquad*pts)	6873 (3.4 cycles/(biquad*pts)
bqriirf_df1	N=512, M=8	11971 (2.9 cycles/(biquad*pts)	13303 (3.2 cycles/(biquad*pts)
bqriirf_df1	N=512, M=12	17661 (2.9 cycles/(biquad*pts)	19731 (3.2 cycles/(biquad*pts)
bqriirf_df1	N=512, M=16	23353 (2.9 cycles/(biquad*pts)	26160 (3.2 cycles/(biquad*pts)
bqriirf_df2	N=512, M=1	3177 (6.2 cycles/(biquad*pts)	3032 (5.9 cycles/(biquad*pts)
bqriirf_df2	N=512, M=2	5222 (5.1 cycles/(biquad*pts)	5075 (5.0 cycles/(biquad*pts)
bqriirf_df2	N=512, M=3	7814 (5.1 cycles/(biquad*pts)	7663 (5.0 cycles/(biquad*pts)
bqriirf_df2	N=512, M=4	7278 (3.6 cycles/(biquad*pts)	7129 (3.5 cycles/(biquad*pts)
bqriirf_df2	N=512, M=8	13969 (3.4 cycles/(biquad*pts)	13815 (3.4 cycles/(biquad*pts)
bqriirf_df2	N=512, M=12	20661 (3.4 cycles/(biquad*pts)	20501 (3.3 cycles/(biquad*pts)
bqriirf_df2	N=512, M=16	27354 (3.3 cycles/(biquad*pts)	27187 (3.3 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=1	4962 (9.7 cycles/(biquad*pts)	4813 (9.4 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=2	4961 (4.8 cycles/(biquad*pts)	4814 (4.7 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=3	9336 (6.1 cycles/(biquad*pts)	9184 (6.0 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=4	6754 (3.3 cycles/(biquad*pts)	6094 (3.0 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=8	12922 (3.2 cycles/(biquad*pts)	11744 (2.9 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=12	19090 (3.1 cycles/(biquad*pts)	17396 (2.8 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=16	25259 (3.1 cycles/(biquad*pts)	23046 (2.8 cycles/(biquad*pts)
bqciirf_df1	N=512, M=1	4205 (8.2 cycles/(biquad*pts)	3930 (7.7 cycles/(biquad*pts)
bqciirf_df1	N=512, M=2	7333 (7.2 cycles/(biquad*pts)	7051 (6.9 cycles/(biquad*pts)
bqciirf_df1	N=512, M=3	10460 (6.8 cycles/(biquad*pts)	10171 (6.6 cycles/(biquad*pts)
bqciirf_df1	N=512, M=4	13589 (6.6 cycles/(biquad*pts)	13291 (6.5 cycles/(biquad*pts)
bqciirf_df1	N=512, M=8	26100 (6.4 cycles/(biquad*pts)	25771 (6.3 cycles/(biquad*pts)
bqciirf_df1	N=512, M=12	38612 (6.3 cycles/(biquad*pts)	38250 (6.2 cycles/(biquad*pts)
bqciirf_df1	N=512, M=16	51122 (6.2 cycles/(biquad*pts)	50730 (6.2 cycles/(biquad*pts)
Lattice Filters			

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
latr16x16_process	N=256, M=1	816 (3.2 cycles/(sample*M)	810 (3.2 cycles/(sample*M)
latr16x16_process	N=256, M=2	1585 (3.1 cycles/(sample*M)	1578 (3.1 cycles/(sample*M)
latr16x16_process	N=256, M=3	1856 (2.4 cycles/(sample*M)	1723 (2.2 cycles/(sample*M)
latr16x16_process	N=256, M=4	2367 (2.3 cycles/(sample*M)	2231 (2.2 cycles/(sample*M)
latr16x16_process	N=256, M=5	2881 (2.3 cycles/(sample*M)	2738 (2.1 cycles/(sample*M)
latr16x16_process	N=256, M=6	2491 (1.6 cycles/(sample*M)	2483 (1.6 cycles/(sample*M)
latr16x16_process	N=256, M=7	2880 (1.6 cycles/(sample*M)	3118 (1.7 cycles/(sample*M)
latr16x16_process	N=256, M=8	3394 (1.7 cycles/(sample*M)	3252 (1.6 cycles/(sample*M)
latr16x16_process	N=256, M=9	13609 (5.9 cycles/(sample*M)	12318 (5.3 cycles/(sample*M)
latr16x16_process	N=80, M=6	819 (1.7 cycles/(sample*M)	811 (1.7 cycles/(sample*M)
latr32x16_process	N=256, M=1	815 (3.2 cycles/(sample*M)	806 (3.1 cycles/(sample*M)
latr32x16_process	N=256, M=2	1068 (2.1 cycles/(sample*M)	1063 (2.1 cycles/(sample*M)
latr32x16_process	N=256, M=3	1339 (1.7 cycles/(sample*M)	1457 (1.9 cycles/(sample*M)
latr32x16_process	N=256, M=4	1838 (1.8 cycles/(sample*M)	1827 (1.8 cycles/(sample*M)
latr32x16_process	N=256, M=5	1969 (1.5 cycles/(sample*M)	1963 (1.5 cycles/(sample*M)
latr32x16_process	N=256, M=6	2353 (1.5 cycles/(sample*M)	2346 (1.5 cycles/(sample*M)
latr32x16_process	N=256, M=7	2871 (1.6 cycles/(sample*M)	2858 (1.6 cycles/(sample*M)
latr32x16_process	N=256, M=8	3252 (1.6 cycles/(sample*M)	3245 (1.6 cycles/(sample*M)
latr32x16_process	N=256, M=9	13609 (5.9 cycles/(sample*M)	10526 (4.6 cycles/(sample*M)
latr32x16_process	N=80, M=6	770 (1.6 cycles/(sample*M)	762 (1.6 cycles/(sample*M)
latr24x24_process	N=256, M=1	815 (3.2 cycles/(sample*M)	811 (3.2 cycles/(sample*M)
latr24x24_process	N=256, M=2	1071 (2.1 cycles/(sample*M)	1069 (2.1 cycles/(sample*M)
latr24x24_process	N=256, M=3	1588 (2.1 cycles/(sample*M)	1578 (2.1 cycles/(sample*M)
latr24x24_process	N=256, M=4	2092 (2.0 cycles/(sample*M)	2085 (2.0 cycles/(sample*M)
latr24x24_process	N=256, M=5	2355 (1.8 cycles/(sample*M)	2343 (1.8 cycles/(sample*M)
latr24x24_process	N=256, M=6	2618 (1.7 cycles/(sample*M)	2853 (1.9 cycles/(sample*M)
latr24x24_process	N=256, M=7	3889 (2.2 cycles/(sample*M)	3758 (2.1 cycles/(sample*M)
latr24x24_process	N=256, M=8	4655 (2.3 cycles/(sample*M)	4645 (2.3 cycles/(sample*M)
latr24x24_process	N=256, M=9	15919 (6.9 cycles/(sample*M)	14372 (6.2 cycles/(sample*M)
latr24x24_process	N=80, M=6	858 (1.8 cycles/(sample*M)	918 (1.9 cycles/(sample*M)
latr32x32_process	N=256, M=1	817 (3.2 cycles/(sample*M)	809 (3.2 cycles/(sample*M)
latr32x32_process	N=256, M=2	1585 (3.1 cycles/(sample*M)	1580 (3.1 cycles/(sample*M)
latr32x32_process	N=256, M=3	2357 (3.1 cycles/(sample*M)	1828 (2.4 cycles/(sample*M)
latr32x32_process	N=256, M=4	2357 (2.3 cycles/(sample*M)	2092 (2.0 cycles/(sample*M)
latr32x32_process	N=256, M=5	2490 (1.9 cycles/(sample*M)	2345 (1.8 cycles/(sample*M)
latr32x32_process	N=256, M=6	2874 (1.9 cycles/(sample*M)	2476 (1.6 cycles/(sample*M)
latr32x32_process	N=256, M=7	2879 (1.6 cycles/(sample*M)	2737 (1.5 cycles/(sample*M)
latr32x32_process	N=256, M=8	3386 (1.7 cycles/(sample*M)	3377 (1.6 cycles/(sample*M)
latr32x32_process	N=256, M=9	12585 (5.5 cycles/(sample*M)	11547 (5.0 cycles/(sample*M)
latr32x32_process	N=80, M=6	939 (2.0 cycles/(sample*M)	807 (1.7 cycles/(sample*M)
latrf_process	N=256, M=1	1073 (4.2 cycles/(sample*M)	1066 (4.2 cycles/(sample*M)
latrf_process	N=256, M=2	3247 (6.3 cycles/(sample*M)	3239 (6.3 cycles/(sample*M)
latrf_process	N=256, M=3	3509 (4.6 cycles/(sample*M)	3500 (4.6 cycles/(sample*M)
latrf_process	N=256, M=4	3397 (3.3 cycles/(sample*M)	3384 (3.3 cycles/(sample*M)
latrf_process	N=256, M=5	3464 (2.7 cycles/(sample*M)	3454 (2.7 cycles/(sample*M)
latrf_process	N=256, M=6	3912 (2.5 cycles/(sample*M)	4670 (3.0 cycles/(sample*M)
latrf_process	N=256, M=7	6615 (3.7 cycles/(sample*M)	6539 (3.6 cycles/(sample*M)
latrf_process	N=256, M=8	7453 (3.6 cycles/(sample*M)	7246 (3.5 cycles/(sample*M)
latrf_process	N=256, M=9	13319 (5.8 cycles/(sample*M)	13044 (5.7 cycles/(sample*M)
latrf_process	N=80, M=6	1270 (2.6 cycles/(sample*M)	1500 (3.1 cycles/(sample*M)
Math Functions			
Vectorized Math			
vec_recip16x16	N=200	1785 (8.9 cycles/pts)	1662 (8.3 cycles/pts)
vec_recip24x24	N=200	2310 (11.6 cycles/pts)	2159 (10.8 cycles/pts)
vec_recip32x32	N=200	2565 (12.8 cycles/pts)	2498 (12.5 cycles/pts)
vec_divide16x16	N=200	2319 (11.6 cycles/pts)	1938 (9.7 cycles/pts)
vec_divide24x24	N=200	1848 (9.2 cycles/pts)	1840 (9.2 cycles/pts)
vec_divide32x32	N=200	2358 (11.8 cycles/pts)	1910 (9.6 cycles/pts)
vec_log2_32x32	N=200	2235 (11.2 cycles/pts)	2226 (11.1 cycles/pts)
vec_logn_32x32	N=200	2234 (11.2 cycles/pts)	2235 (11.2 cycles/pts)
vec_log10_32x32	N=200	2234 (11.2 cycles/pts)	2235 (11.2 cycles/pts)
vec_log2_24x24	N=200	2232 (11.2 cycles/pts)	2227 (11.1 cycles/pts)
vec_logn_24x24	N=200	2234 (11.2 cycles/pts)	2235 (11.2 cycles/pts)
vec_log10_24x24	N=200	2234 (11.2 cycles/pts)	2234 (11.2 cycles/pts)
vec_antilog2_24x24	N=200	853 (4.3 cycles/pts)	837 (4.2 cycles/pts)
vec_antilogn_24x24	N=200	958 (4.8 cycles/pts)	941 (4.7 cycles/pts)
vec_antilog10_24x24	N=200	958 (4.8 cycles/pts)	942 (4.7 cycles/pts)
vec_antilog2_32x32	N=200	853 (4.3 cycles/pts)	836 (4.2 cycles/pts)
vec_antilogn_32x32	N=200	958 (4.8 cycles/pts)	941 (4.7 cycles/pts)
vec_antilog10_32x32	N=200	958 (4.8 cycles/pts)	941 (4.7 cycles/pts)
vec_sine32x32	N=200	1044 (5.2 cycles/pts)	839 (4.2 cycles/pts)
vec_cosine32x32	N=200	1045 (5.2 cycles/pts)	839 (4.2 cycles/pts)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
vec_sine24x24	N=200	1044 (5.2 cycles/pts)	837 (4.2 cycles/pts)
vec_cosine24x24	N=200	1044 (5.2 cycles/pts)	836 (4.2 cycles/pts)
vec_tan32x32	N=200	3175 (15.9 cycles/pts)	3143 (15.7 cycles/pts)
vec_tan24x24	N=200	3157 (15.8 cycles/pts)	3144 (15.7 cycles/pts)
vec_atan32x32	N=200	1443 (7.2 cycles/pts)	1540 (7.7 cycles/pts)
vec_atan24x24	N=200	993 (5.0 cycles/pts)	937 (4.7 cycles/pts)
vec_atan2_24x24	N=200	6944 (34.7 cycles/pts)	6841 (34.2 cycles/pts)
vec_sqrt16x16	N=200	1956 (9.8 cycles/pts)	1646 (8.2 cycles/pts)
vec_sqrt24x24	N=200	1749 (8.7 cycles/pts)	1654 (8.3 cycles/pts)
vec_sqrt32x32	N=200	1748 (8.7 cycles/pts)	1646 (8.2 cycles/pts)
vec_sqrt64x32	N=200	1955 (9.8 cycles/pts)	1645 (8.2 cycles/pts)
vec_rsqrt16x16	N=200	2512 (12.6 cycles/pts)	2496 (12.5 cycles/pts)
vec_rsqrt32x32	N=200	4656 (23.3 cycles/pts)	3565 (17.8 cycles/pts)
vec_sigmoid32x32	N=200	1482 (7.4 cycles/pts)	1474 (7.4 cycles/pts)
vec_softmax32x32	N=200	1304 (6.5 cycles/pts)	1105 (5.5 cycles/pts)
vec_tanh32x32	N=200	1381 (6.9 cycles/pts)	1373 (6.9 cycles/pts)
vec_int2float	N=200	337 (1.7 cycles/pts)	238 (1.2 cycles/pts)
vec_float2int	N=200	339 (1.7 cycles/pts)	238 (1.2 cycles/pts)
vec_sinef	N=200	4257 (21.3 cycles/pts)	4460 (22.3 cycles/pts)
vec_cosinef	N=200	4089 (20.4 cycles/pts)	4309 (21.5 cycles/pts)
vec_tanf	N=200	4725 (23.6 cycles/pts)	4656 (23.3 cycles/pts)
vec_log2f	N=200	3292 (16.5 cycles/pts)	3144 (15.7 cycles/pts)
vec_log10f	N=200	3463 (17.3 cycles/pts)	3291 (16.5 cycles/pts)
vec_lognf	N=200	3053 (15.3 cycles/pts)	3004 (15.0 cycles/pts)
vec_antilog2f	N=200	1467 (7.3 cycles/pts)	1465 (7.3 cycles/pts)
vec_antilognf	N=200	1465 (7.3 cycles/pts)	1550 (7.8 cycles/pts)
vec_antilog10f	N=200	1760 (8.8 cycles/pts)	1851 (9.3 cycles/pts)
vec_atanf	N=200	3285 (16.4 cycles/pts)	3311 (16.6 cycles/pts)
vec_atan2f	N=200	4555 (22.8 cycles/pts)	4592 (23.0 cycles/pts)
Vectorized Fast Math			
vec_divide16x16_fast	N=200	1802 (9.0 cycles/pts)	1527 (7.6 cycles/pts)
vec_divide24x24_fast	N=200	1837 (9.2 cycles/pts)	1832 (9.2 cycles/pts)
vec_divide32x32_fast	N=200	2335 (11.7 cycles/pts)	1853 (9.3 cycles/pts)
vec_sine32x32_fast	N=200	994 (5.0 cycles/pts)	842 (4.2 cycles/pts)
vec_cosine32x32_fast	N=200	995 (5.0 cycles/pts)	837 (4.2 cycles/pts)
vec_sine24x24_fast	N=200	942 (4.7 cycles/pts)	833 (4.2 cycles/pts)
vec_cosine24x24_fast	N=200	943 (4.7 cycles/pts)	835 (4.2 cycles/pts)
vec_sqrt24x24_fast	N=200	1746 (8.7 cycles/pts)	1542 (7.7 cycles/pts)
vec_sqrt32x32_fast	N=200	1745 (8.7 cycles/pts)	1539 (7.7 cycles/pts)
Scalar Math			
scl_recip16x16		44 (cycles)	39 (cycles)
scl_recip32x32		42 (cycles)	39 (cycles)
scl_recip24x24		52 (cycles)	48 (cycles)
scl_divide16x16		48 (cycles)	46 (cycles)
scl_divide32x32		41 (cycles)	38 (cycles)
scl_divide24x24		51 (cycles)	48 (cycles)
scl_log2_32x32		34 (cycles)	30 (cycles)
scl_logn_32x32		37 (cycles)	32 (cycles)
scl_log10_32x32		37 (cycles)	32 (cycles)
scl_log2_24x24		35 (cycles)	30 (cycles)
scl_logn_24x24		38 (cycles)	32 (cycles)
scl_log10_24x24		38 (cycles)	32 (cycles)
scl_antilog2_32x32		29 (cycles)	26 (cycles)
scl_antilogn_32x32		32 (cycles)	29 (cycles)
scl_antilog10_32x32		32 (cycles)	29 (cycles)
scl_antilog2_24x24		30 (cycles)	26 (cycles)
scl_antilogn_24x24		33 (cycles)	29 (cycles)
scl_antilog10_24x24		33 (cycles)	29 (cycles)
scl_sqrt16x16		41 (cycles)	38 (cycles)
scl_sqrt32x32		36 (cycles)	33 (cycles)
scl_sqrt24x24		38 (cycles)	34 (cycles)
scl_sqrt64x32		45 (cycles)	42 (cycles)
scl_sine32x32		31 (cycles)	28 (cycles)
scl_cosine32x32		32 (cycles)	29 (cycles)
scl_sine24x24		32 (cycles)	27 (cycles)
scl_cosine24x24		31 (cycles)	27 (cycles)
scl_tan32x32		59 (cycles)	55 (cycles)
scl_tan24x24		60 (cycles)	55 (cycles)
scl_atan32x32		36 (cycles)	34 (cycles)
scl_atan24x24		28 (cycles)	27 (cycles)
scl_atan2_24x24		80 (cycles)	78 (cycles)
scl_rsqrt16x16		49 (cycles)	48 (cycles)
scl_rsqrt32x32		58 (cycles)	56 (cycles)
scl_sigmoid32x32		47 (cycles)	43 (cycles)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
scl_tanh32x32		47 (cycles)	43 (cycles)
scl_int2float		18 (cycles)	14 (cycles)
scl_float2int		23 (cycles)	19 (cycles)
scl_sinef		97 (cycles)	92 (cycles)
scl_cosinef		96 (cycles)	92 (cycles)
scl_tanf	x=0.4	119 (cycles)	116 (cycles)
scl_tanf	x=1.2	134 (cycles)	130 (cycles)
scl_log2f		78 (cycles)	73 (cycles)
scl_log10f		81 (cycles)	78 (cycles)
scl_lognf		78 (cycles)	75 (cycles)
scl_antilog2f		53 (cycles)	50 (cycles)
scl_antilog10f		57 (cycles)	52 (cycles)
scl_antilognf		49 (cycles)	45 (cycles)
scl_atanf	x=0.7	70 (cycles)	67 (cycles)
scl_atanf	x=1.3	88 (cycles)	85 (cycles)
scl_atan2f		103 (cycles)	98 (cycles)
Complex Functions			
Vectorized Complex Math			
vec_complex2mag	N=200	4941 (24.7 cycles/pts)	4738 (23.7 cycles/pts)
vec_complex2invmag	N=200	2945 (14.7 cycles/pts)	2982 (14.9 cycles/pts)
Scalar Complex Math			
scl_complex2mag		84 (cycles)	78 (cycles)
scl_complex2invmag		77 (cycles)	71 (cycles)
Vector Operations			
vec_add16x16	N=200	180 (0.9 cycles/pts)	106 (0.5 cycles/pts)
vec_add24x24	N=200	326 (1.6 cycles/pts)	177 (0.9 cycles/pts)
vec_add32x32	N=200	326 (1.6 cycles/pts)	177 (0.9 cycles/pts)
vec_add16x16_fast	N=200	172 (0.9 cycles/pts)	97 (0.5 cycles/pts)
vec_add24x24_fast	N=200	323 (1.6 cycles/pts)	172 (0.9 cycles/pts)
vec_add32x32_fast	N=200	322 (1.6 cycles/pts)	172 (0.9 cycles/pts)
vec_power16x16	N=200	139 (0.7 cycles/pts)	79 (0.4 cycles/pts)
vec_power24x24	N=200	137 (0.7 cycles/pts)	130 (0.6 cycles/pts)
vec_power32x32	N=200	137 (0.7 cycles/pts)	130 (0.6 cycles/pts)
vec_power16x16_fast	N=200	125 (0.6 cycles/pts)	72 (0.4 cycles/pts)
vec_power24x24_fast	N=200	126 (0.6 cycles/pts)	122 (0.6 cycles/pts)
vec_power32x32_fast	N=200	127 (0.6 cycles/pts)	124 (0.6 cycles/pts)
vec_scale16x16	N=200	140 (0.7 cycles/pts)	107 (0.5 cycles/pts)
vec_scale24x24	N=200	231 (1.2 cycles/pts)	181 (0.9 cycles/pts)
vec_scale32x24	N=200	232 (1.2 cycles/pts)	132 (0.7 cycles/pts)
vec_scale32x32	N=200	233 (1.2 cycles/pts)	131 (0.7 cycles/pts)
vec_shift16x16	N=200	141 (0.7 cycles/pts)	134 (0.7 cycles/pts)
vec_shift24x24	N=200	237 (1.2 cycles/pts)	183 (0.9 cycles/pts)
vec_shift32x32	N=200	235 (1.2 cycles/pts)	183 (0.9 cycles/pts)
vec_scale16x16_fast	N=200	125 (0.6 cycles/pts)	98 (0.5 cycles/pts)
vec_scale24x24_fast	N=200	225 (1.1 cycles/pts)	178 (0.9 cycles/pts)
vec_scale32x24_fast	N=200	226 (1.1 cycles/pts)	127 (0.6 cycles/pts)
vec_scale32x32_fast	N=200	222 (1.1 cycles/pts)	126 (0.6 cycles/pts)
vec_shift16x16_fast	N=200	132 (0.7 cycles/pts)	124 (0.6 cycles/pts)
vec_shift24x24_fast	N=200	228 (1.1 cycles/pts)	177 (0.9 cycles/pts)
vec_shift32x32_fast	N=200	225 (1.1 cycles/pts)	174 (0.9 cycles/pts)
vec_dot16x16	N=200	180 (0.9 cycles/pts)	84 (0.4 cycles/pts)
vec_dot24x24	N=200	233 (1.2 cycles/pts)	131 (0.7 cycles/pts)
vec_dot32x16	N=200	179 (0.9 cycles/pts)	132 (0.7 cycles/pts)
vec_dot32x32	N=200	240 (1.2 cycles/pts)	131 (0.7 cycles/pts)
vec_dot16x16_fast	N=200	129 (0.6 cycles/pts)	78 (0.4 cycles/pts)
vec_dot24x24_fast	N=200	223 (1.1 cycles/pts)	129 (0.6 cycles/pts)
vec_dot32x16_fast	N=200	173 (0.9 cycles/pts)	120 (0.6 cycles/pts)
vec_dot32x32_fast	N=200	231 (1.2 cycles/pts)	125 (0.6 cycles/pts)
vec_max16x16	N=200	152 (0.8 cycles/pts)	82 (0.4 cycles/pts)
vec_min16x16	N=200	152 (0.8 cycles/pts)	82 (0.4 cycles/pts)
vec_max24x24	N=200	137 (0.7 cycles/pts)	131 (0.7 cycles/pts)
vec_min24x24	N=200	136 (0.7 cycles/pts)	129 (0.6 cycles/pts)
vec_max32x32	N=200	135 (0.7 cycles/pts)	127 (0.6 cycles/pts)
vec_min32x32	N=200	135 (0.7 cycles/pts)	127 (0.6 cycles/pts)
vec_max16x16_fast	N=200	128 (0.6 cycles/pts)	73 (0.4 cycles/pts)
vec_min16x16_fast	N=200	128 (0.6 cycles/pts)	73 (0.4 cycles/pts)
vec_max24x24_fast	N=200	128 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_min24x24_fast	N=200	128 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_max32x32_fast	N=200	126 (0.6 cycles/pts)	121 (0.6 cycles/pts)
vec_min32x32_fast	N=200	127 (0.6 cycles/pts)	122 (0.6 cycles/pts)
vec_dotf	N=200	242 (1.2 cycles/pts)	198 (1.0 cycles/pts)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
vec_addf	N=200	336 (1.7 cycles/pts)	231 (1.2 cycles/pts)
vec_powerf	N=200	149 (0.7 cycles/pts)	146 (0.7 cycles/pts)
vec_shiftf	N=200	244 (1.2 cycles/pts)	233 (1.2 cycles/pts)
vec_scalef	N=200	232 (1.2 cycles/pts)	181 (0.9 cycles/pts)
vec_scale_sf	N=200	340 (1.7 cycles/pts)	337 (1.7 cycles/pts)
vec_minf	N=200	133 (0.7 cycles/pts)	129 (0.6 cycles/pts)
vec_maxf	N=200	133 (0.7 cycles/pts)	127 (0.6 cycles/pts)
Matrix Operations			
mtx_mpy16x16	40x80 x 80x8	10921 (2.3 MACs/cycle)	5608 (4.6 MACs/cycle)
mtx_mpy16x16	40x81 x 81x8	11360 (2.3 MACs/cycle)	5816 (4.5 MACs/cycle)
mtx_mpy16x16	40x82 x 82x8	11378 (2.3 MACs/cycle)	5809 (4.5 MACs/cycle)
mtx_mpy16x16	40x83 x 83x8	11394 (2.3 MACs/cycle)	5820 (4.6 MACs/cycle)
mtx_mpy16x16	2x100 x 100x8	1529 (1.0 MACs/cycle)	929 (1.7 MACs/cycle)
mtx_mpy16x16	8x80 x 80x2	1225 (1.0 MACs/cycle)	705 (1.8 MACs/cycle)
mtx_mpy16x16	8x4 x 4x2	339 (0.2 MACs/cycle)	238 (0.3 MACs/cycle)
mtx_mpy16x16	8x16 x 16x2	473 (0.5 MACs/cycle)	326 (0.8 MACs/cycle)
mtx_mpy16x16	8x32 x 32x2	661 (0.8 MACs/cycle)	433 (1.2 MACs/cycle)
mtx_mpy16x16_fast	8x80 x 80x4	1031 (2.5 MACs/cycle)	658 (3.9 MACs/cycle)
mtx_mpy16x16_fast	8x84 x 84x4	1075 (2.5 MACs/cycle)	679 (4.0 MACs/cycle)
mtx_mpy16x16_fast	8x4 x 4x4	199 (0.6 MACs/cycle)	171 (0.7 MACs/cycle)
mtx_mpy16x16_fast	8x16 x 16x4	327 (1.6 MACs/cycle)	269 (1.9 MACs/cycle)
mtx_mpy16x16_fast	8x32 x 32x4	503 (2.0 MACs/cycle)	379 (2.7 MACs/cycle)
mtx_mpy24x24	40x80 x 80x8	16759 (1.5 MACs/cycle)	12263 (2.1 MACs/cycle)
mtx_mpy24x24	40x81 x 81x8	17095 (1.5 MACs/cycle)	12519 (2.1 MACs/cycle)
mtx_mpy24x24	40x82 x 82x8	17111 (1.5 MACs/cycle)	12528 (2.1 MACs/cycle)
mtx_mpy24x24	40x83 x 83x8	17447 (1.5 MACs/cycle)	12783 (2.1 MACs/cycle)
mtx_mpy24x24	2x100 x 100x8	2723 (0.6 MACs/cycle)	1676 (1.0 MACs/cycle)
mtx_mpy24x24	8x80 x 80x2	1175 (1.1 MACs/cycle)	808 (1.6 MACs/cycle)
mtx_mpy24x24	8x4 x 4x2	259 (0.2 MACs/cycle)	201 (0.3 MACs/cycle)
mtx_mpy24x24	8x16 x 16x2	407 (0.6 MACs/cycle)	297 (0.9 MACs/cycle)
mtx_mpy24x24	8x32 x 32x2	599 (0.9 MACs/cycle)	424 (1.2 MACs/cycle)
mtx_mpy24x24_fast	8x80 x 80x4	1127 (2.3 MACs/cycle)	1027 (2.5 MACs/cycle)
mtx_mpy24x24_fast	8x84 x 84x4	1175 (2.3 MACs/cycle)	1072 (2.5 MACs/cycle)
mtx_mpy24x24_fast	8x4 x 4x4	211 (0.6 MACs/cycle)	195 (0.7 MACs/cycle)
mtx_mpy24x24_fast	8x16 x 16x4	359 (1.4 MACs/cycle)	324 (1.6 MACs/cycle)
mtx_mpy24x24_fast	8x32 x 32x4	551 (1.9 MACs/cycle)	499 (2.1 MACs/cycle)
mtx_mpy32x32	40x80 x 80x8	17234 (1.5 MACs/cycle)	15390 (1.7 MACs/cycle)
mtx_mpy32x32	40x81 x 81x8	17810 (1.5 MACs/cycle)	15725 (1.6 MACs/cycle)
mtx_mpy32x32	40x82 x 82x8	17826 (1.5 MACs/cycle)	15732 (1.7 MACs/cycle)
mtx_mpy32x32	40x83 x 83x8	17922 (1.5 MACs/cycle)	16069 (1.7 MACs/cycle)
mtx_mpy32x32	2x100 x 100x8	2742 (0.6 MACs/cycle)	1876 (0.9 MACs/cycle)
mtx_mpy32x32	8x80 x 80x2	1197 (1.1 MACs/cycle)	966 (1.3 MACs/cycle)
mtx_mpy32x32	8x4 x 4x2	289 (0.2 MACs/cycle)	207 (0.3 MACs/cycle)
mtx_mpy32x32	8x16 x 16x2	429 (0.6 MACs/cycle)	325 (0.8 MACs/cycle)
mtx_mpy32x32	8x32 x 32x2	621 (0.8 MACs/cycle)	487 (1.1 MACs/cycle)
mtx_mpy32x32_fast	8x80 x 80x4	1618 (1.6 MACs/cycle)	1411 (1.8 MACs/cycle)
mtx_mpy32x32_fast	8x84 x 84x4	1690 (1.6 MACs/cycle)	1477 (1.8 MACs/cycle)
mtx_mpy32x32_fast	8x4 x 4x4	246 (0.5 MACs/cycle)	191 (0.7 MACs/cycle)
mtx_mpy32x32_fast	8x16 x 16x4	466 (1.1 MACs/cycle)	389 (1.3 MACs/cycle)
mtx_mpy32x32_fast	8x32 x 32x4	754 (1.4 MACs/cycle)	644 (1.6 MACs/cycle)
mtx_vecmpy16x16	16x100 x 100x1	872 (1.8 MACs/cycle)	608 (2.6 MACs/cycle)
mtx_vecmpy16x16	16x104 x 104x1	896 (1.9 MACs/cycle)	643 (2.6 MACs/cycle)
mtx_vecmpy16x16	40x40 x 40x1	1207 (1.3 MACs/cycle)	977 (1.6 MACs/cycle)
mtx_vecmpy16x16_fast	16x100 x 100x1	591 (2.7 MACs/cycle)	380 (4.2 MACs/cycle)
mtx_vecmpy16x16_fast	16x104 x 104x1	611 (2.7 MACs/cycle)	392 (4.2 MACs/cycle)
mtx_vecmpy16x16_fast	40x40 x 40x1	686 (2.3 MACs/cycle)	463 (3.5 MACs/cycle)
mtx_vecmpy24x24	16x100 x 100x1	1432 (1.1 MACs/cycle)	968 (1.7 MACs/cycle)
mtx_vecmpy24x24	16x101 x 101x1	1456 (1.1 MACs/cycle)	983 (1.6 MACs/cycle)
mtx_vecmpy24x24	16x102 x 102x1	1456 (1.1 MACs/cycle)	999 (1.6 MACs/cycle)
mtx_vecmpy24x24	16x103 x 103x1	1480 (1.1 MACs/cycle)	1017 (1.6 MACs/cycle)
mtx_vecmpy24x24	16x104 x 104x1	1480 (1.1 MACs/cycle)	968 (1.7 MACs/cycle)
mtx_vecmpy24x24	40x40 x 40x1	1731 (0.9 MACs/cycle)	1264 (1.3 MACs/cycle)
mtx_vecmpy24x24_fast	16x100 x 100x1	1128 (1.4 MACs/cycle)	725 (2.2 MACs/cycle)
mtx_vecmpy24x24_fast	16x104 x 104x1	1168 (1.4 MACs/cycle)	748 (2.2 MACs/cycle)
mtx_vecmpy24x24_fast	40x40 x 40x1	1277 (1.3 MACs/cycle)	881 (1.8 MACs/cycle)
mtx_vecmpy32x32	16x100 x 100x1	1564 (1.0 MACs/cycle)	1051 (1.5 MACs/cycle)
mtx_vecmpy32x32	16x101 x 101x1	1564 (1.0 MACs/cycle)	1052 (1.5 MACs/cycle)
mtx_vecmpy32x32	16x102 x 102x1	1596 (1.0 MACs/cycle)	1067 (1.5 MACs/cycle)
mtx_vecmpy32x32	16x103 x 103x1	1596 (1.0 MACs/cycle)	1067 (1.5 MACs/cycle)
mtx_vecmpy32x32	16x104 x 104x1	1612 (1.0 MACs/cycle)	1085 (1.5 MACs/cycle)
mtx_vecmpy32x32	40x40 x 40x1	2019 (0.8 MACs/cycle)	1376 (1.2 MACs/cycle)
mtx_vecmpy32x32_fast	16x100 x 100x1	1115 (1.4 MACs/cycle)	923 (1.7 MACs/cycle)
mtx_vecmpy32x32_fast	16x104 x 104x1	1155 (1.4 MACs/cycle)	955 (1.7 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
mtx_vecmpy32x32_fast	40x40 x 40x1	1228 (1.3 MACs/cycle)	1066 (1.5 MACs/cycle)
mtx_mpyf	40x80 x 80x8	13834 (1.9 MACs/cycle)	13652 (1.9 MACs/cycle)
mtx_mpyf	40x81 x 81x8	13994 (1.9 MACs/cycle)	13813 (1.9 MACs/cycle)
mtx_mpyf	40x82 x 82x8	14154 (1.9 MACs/cycle)	13973 (1.9 MACs/cycle)
mtx_mpyf	40x83 x 83x8	14314 (1.9 MACs/cycle)	14133 (1.9 MACs/cycle)
mtx_mpyf	2x100 x 100x8	1744 (0.9 MACs/cycle)	1716 (0.9 MACs/cycle)
mtx_mpyf	8x80 x 80x2	1513 (0.8 MACs/cycle)	1458 (0.9 MACs/cycle)
mtx_mpyf	8x4 x 4x2	297 (0.2 MACs/cycle)	242 (0.3 MACs/cycle)
mtx_mpyf	8x16 x 16x2	489 (0.5 MACs/cycle)	436 (0.6 MACs/cycle)
mtx_mpyf	8x32 x 32x2	745 (0.7 MACs/cycle)	690 (0.7 MACs/cycle)
mtx_mpyf_fast	8x80 x 80x4	1444 (1.8 MACs/cycle)	1406 (1.8 MACs/cycle)
mtx_mpyf_fast	8x84 x 84x4	1508 (1.8 MACs/cycle)	1469 (1.8 MACs/cycle)
mtx_mpyf_fast	8x4 x 4x4	224 (0.6 MACs/cycle)	186 (0.7 MACs/cycle)
mtx_mpyf_fast	8x16 x 16x4	420 (1.2 MACs/cycle)	384 (1.3 MACs/cycle)
mtx_mpyf_fast	8x32 x 32x4	676 (1.5 MACs/cycle)	637 (1.6 MACs/cycle)
mtx_vecmpyf	16x100 x 100x1	1507 (1.1 MACs/cycle)	1290 (1.2 MACs/cycle)
mtx_vecmpyf	16x101 x 101x1	1574 (1.0 MACs/cycle)	1345 (1.2 MACs/cycle)
mtx_vecmpyf	16x102 x 102x1	1642 (1.0 MACs/cycle)	1404 (1.2 MACs/cycle)
mtx_vecmpyf	16x103 x 103x1	1710 (1.0 MACs/cycle)	1463 (1.1 MACs/cycle)
mtx_vecmpyf	16x104 x 104x1	1555 (1.1 MACs/cycle)	1329 (1.3 MACs/cycle)
mtx_vecmpyf	40x40 x 40x1	1904 (0.8 MACs/cycle)	1673 (1.0 MACs/cycle)
mtx_vecmpyf_fast	16x100 x 100x1	1112 (1.4 MACs/cycle)	1003 (1.6 MACs/cycle)
mtx_vecmpyf_fast	16x104 x 104x1	1152 (1.4 MACs/cycle)	1039 (1.6 MACs/cycle)
mtx_vecmpyf_fast	40x40 x 40x1	1237 (1.3 MACs/cycle)	1128 (1.4 MACs/cycle)
Matrix Decomposition and Inversion			
mtx_inv2x2f		44 (44.0 cycles/matrix)	42 (42.0 cycles/matrix)
mtx_inv3x3f		234 (234.0 cycles/matrix)	200 (200.0 cycles/matrix)
mtx_inv4x4f		372 (372.0 cycles/matrix)	300 (300.0 cycles/matrix)
Fitting and Interpolation			
Polynomial Fitting			
vec_poly4_24x24	N=200	465 (2.3 cycles/pts)	451 (2.3 cycles/pts)
vec_poly8_24x24	N=200	866 (4.3 cycles/pts)	849 (4.2 cycles/pts)
vec_poly4_32x32	N=200	457 (2.3 cycles/pts)	441 (2.2 cycles/pts)
vec_poly8_32x32	N=200	864 (4.3 cycles/pts)	845 (4.2 cycles/pts)
vec_poly4f	N=200	570 (2.8 cycles/pts)	536 (2.7 cycles/pts)
vec_poly8f	N=200	1086 (5.4 cycles/pts)	995 (5.0 cycles/pts)
FFT Routines			
Complex FFT			
fft_cplx16x16	N=16, scaling=3	160 (0.100 pts/cycle)	118 (0.136 pts/cycle)
fft_cplx16x16	N=16, scaling=2	233 (0.069 pts/cycle)	144 (0.111 pts/cycle)
fft_cplx16x16	N=32, scaling=3	308 (0.104 pts/cycle)	212 (0.151 pts/cycle)
fft_cplx16x16	N=32, scaling=2	438 (0.073 pts/cycle)	240 (0.133 pts/cycle)
fft_cplx16x16	N=64, scaling=3	497 (0.129 pts/cycle)	313 (0.204 pts/cycle)
fft_cplx16x16	N=64, scaling=2	699 (0.092 pts/cycle)	361 (0.177 pts/cycle)
fft_cplx16x16	N=128, scaling=3	1137 (0.113 pts/cycle)	627 (0.204 pts/cycle)
fft_cplx16x16	N=128, scaling=2	1518 (0.084 pts/cycle)	719 (0.178 pts/cycle)
fft_cplx16x16	N=256, scaling=3	2162 (0.118 pts/cycle)	1134 (0.226 pts/cycle)
fft_cplx16x16	N=256, scaling=2	2795 (0.092 pts/cycle)	1315 (0.195 pts/cycle)
fft_cplx16x16	N=512, scaling=3	5163 (0.099 pts/cycle)	2563 (0.200 pts/cycle)
fft_cplx16x16	N=512, scaling=2	6463 (0.079 pts/cycle)	2919 (0.175 pts/cycle)
fft_cplx16x16	N=1024, scaling=3	10284 (0.100 pts/cycle)	5034 (0.203 pts/cycle)
fft_cplx16x16	N=1024, scaling=2	12619 (0.081 pts/cycle)	5743 (0.178 pts/cycle)
fft_cplx16x16	N=2048, scaling=3	24260 (0.084 pts/cycle)	11591 (0.177 pts/cycle)
fft_cplx16x16	N=2048, scaling=2	29311 (0.070 pts/cycle)	13003 (0.158 pts/cycle)
fft_cplx16x16	N=4096, scaling=3	48834 (0.084 pts/cycle)	23262 (0.176 pts/cycle)
fft_cplx16x16	N=4096, scaling=2	58247 (0.070 pts/cycle)	26083 (0.157 pts/cycle)
fft_cplx24x24	N=16, scaling=0	206 (0.078 pts/cycle)	175 (0.091 pts/cycle)
fft_cplx24x24	N=16, scaling=1	283 (0.057 pts/cycle)	252 (0.063 pts/cycle)
fft_cplx24x24	N=16, scaling=2	325 (0.049 pts/cycle)	290 (0.055 pts/cycle)
fft_cplx24x24	N=16, scaling=3	219 (0.073 pts/cycle)	186 (0.086 pts/cycle)
fft_cplx24x24	N=32, scaling=0	367 (0.087 pts/cycle)	282 (0.113 pts/cycle)
fft_cplx24x24	N=32, scaling=1	534 (0.060 pts/cycle)	475 (0.067 pts/cycle)
fft_cplx24x24	N=32, scaling=2	606 (0.053 pts/cycle)	537 (0.060 pts/cycle)
fft_cplx24x24	N=32, scaling=3	401 (0.080 pts/cycle)	345 (0.093 pts/cycle)
fft_cplx24x24	N=64, scaling=0	653 (0.098 pts/cycle)	488 (0.131 pts/cycle)
fft_cplx24x24	N=64, scaling=1	844 (0.076 pts/cycle)	791 (0.081 pts/cycle)
fft_cplx24x24	N=64, scaling=2	982 (0.065 pts/cycle)	907 (0.071 pts/cycle)
fft_cplx24x24	N=64, scaling=3	668 (0.096 pts/cycle)	566 (0.113 pts/cycle)
fft_cplx24x24	N=128, scaling=0	1436 (0.089 pts/cycle)	1062 (0.121 pts/cycle)
fft_cplx24x24	N=128, scaling=1	1873 (0.068 pts/cycle)	1747 (0.073 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
fft_cplx24x24	N=128, scaling=2	2137 (0.060 pts/cycle)	1965 (0.065 pts/cycle)
fft_cplx24x24	N=128, scaling=3	1473 (0.087 pts/cycle)	1263 (0.101 pts/cycle)
fft_cplx24x24	N=256, scaling=0	2898 (0.088 pts/cycle)	2114 (0.121 pts/cycle)
fft_cplx24x24	N=256, scaling=1	3499 (0.073 pts/cycle)	3366 (0.076 pts/cycle)
fft_cplx24x24	N=256, scaling=2	4021 (0.064 pts/cycle)	3794 (0.067 pts/cycle)
fft_cplx24x24	N=256, scaling=3	2909 (0.088 pts/cycle)	2452 (0.104 pts/cycle)
fft_cplx24x24	N=512, scaling=0	6680 (0.077 pts/cycle)	4885 (0.105 pts/cycle)
fft_cplx24x24	N=512, scaling=1	8189 (0.063 pts/cycle)	7817 (0.065 pts/cycle)
fft_cplx24x24	N=512, scaling=2	9222 (0.056 pts/cycle)	8661 (0.059 pts/cycle)
fft_cplx24x24	N=512, scaling=3	6743 (0.076 pts/cycle)	5754 (0.089 pts/cycle)
fft_cplx24x24	N=1024, scaling=0	13926 (0.074 pts/cycle)	10113 (0.101 pts/cycle)
fft_cplx24x24	N=1024, scaling=1	16185 (0.063 pts/cycle)	15758 (0.065 pts/cycle)
fft_cplx24x24	N=1024, scaling=2	18242 (0.056 pts/cycle)	17434 (0.059 pts/cycle)
fft_cplx24x24	N=1024, scaling=3	13939 (0.073 pts/cycle)	11735 (0.087 pts/cycle)
fft_cplx24x24	N=2048, scaling=0	31868 (0.064 pts/cycle)	23252 (0.088 pts/cycle)
fft_cplx24x24	N=2048, scaling=1	37739 (0.054 pts/cycle)	36401 (0.056 pts/cycle)
fft_cplx24x24	N=2048, scaling=2	41844 (0.049 pts/cycle)	39741 (0.052 pts/cycle)
fft_cplx24x24	N=2048, scaling=3	32029 (0.064 pts/cycle)	27261 (0.075 pts/cycle)
fft_cplx24x24	N=4096, scaling=0	66569 (0.062 pts/cycle)	48352 (0.085 pts/cycle)
fft_cplx24x24	N=4096, scaling=1	75622 (0.054 pts/cycle)	74038 (0.055 pts/cycle)
fft_cplx24x24	N=4096, scaling=2	83824 (0.049 pts/cycle)	80706 (0.051 pts/cycle)
fft_cplx24x24	N=4096, scaling=3	66584 (0.062 pts/cycle)	56059 (0.073 pts/cycle)
fft_cplx32x16	N=16	172 (0.093 pts/cycle)	152 (0.105 pts/cycle)
fft_cplx32x16	N=32	344 (0.093 pts/cycle)	301 (0.106 pts/cycle)
fft_cplx32x16	N=64	594 (0.108 pts/cycle)	541 (0.118 pts/cycle)
fft_cplx32x16	N=128	1350 (0.095 pts/cycle)	1207 (0.106 pts/cycle)
fft_cplx32x16	N=256	2632 (0.097 pts/cycle)	2390 (0.107 pts/cycle)
fft_cplx32x16	N=512	6177 (0.083 pts/cycle)	5623 (0.091 pts/cycle)
fft_cplx32x16	N=1024	12523 (0.082 pts/cycle)	11470 (0.089 pts/cycle)
fft_cplx32x16	N=2048	29076 (0.070 pts/cycle)	26719 (0.077 pts/cycle)
fft_cplx32x16	N=4096	59421 (0.069 pts/cycle)	54774 (0.075 pts/cycle)
fft_cplx32x32	N=16, scaling=3	231 (0.069 pts/cycle)	169 (0.095 pts/cycle)
fft_cplx32x32	N=16, scaling=2	353 (0.045 pts/cycle)	277 (0.058 pts/cycle)
fft_cplx32x32	N=32, scaling=3	414 (0.077 pts/cycle)	276 (0.116 pts/cycle)
fft_cplx32x32	N=32, scaling=2	749 (0.043 pts/cycle)	596 (0.054 pts/cycle)
fft_cplx32x32	N=64, scaling=3	944 (0.068 pts/cycle)	662 (0.097 pts/cycle)
fft_cplx32x32	N=64, scaling=2	1228 (0.052 pts/cycle)	991 (0.065 pts/cycle)
fft_cplx32x32	N=128, scaling=3	1892 (0.068 pts/cycle)	1245 (0.103 pts/cycle)
fft_cplx32x32	N=128, scaling=2	2920 (0.044 pts/cycle)	2402 (0.053 pts/cycle)
fft_cplx32x32	N=256, scaling=3	4295 (0.060 pts/cycle)	2939 (0.087 pts/cycle)
fft_cplx32x32	N=256, scaling=2	5487 (0.047 pts/cycle)	4549 (0.056 pts/cycle)
fft_cplx32x32	N=512, scaling=3	9056 (0.057 pts/cycle)	5894 (0.087 pts/cycle)
fft_cplx32x32	N=512, scaling=2	13371 (0.038 pts/cycle)	11192 (0.046 pts/cycle)
fft_cplx32x32	N=1024, scaling=3	20472 (0.050 pts/cycle)	13768 (0.074 pts/cycle)
fft_cplx32x32	N=1024, scaling=2	26306 (0.039 pts/cycle)	22075 (0.046 pts/cycle)
fft_cplx32x32	N=2048, scaling=3	43542 (0.047 pts/cycle)	28119 (0.073 pts/cycle)
fft_cplx32x32	N=2048, scaling=2	62990 (0.033 pts/cycle)	53102 (0.039 pts/cycle)
fft_cplx32x32	N=4096, scaling=3	97138 (0.042 pts/cycle)	64541 (0.063 pts/cycle)
fft_cplx32x32	N=4096, scaling=2	125459 (0.033 pts/cycle)	105842 (0.039 pts/cycle)
ifft_cplx16x16	N=16, scaling=3	161 (0.099 pts/cycle)	116 (0.138 pts/cycle)
ifft_cplx16x16	N=16, scaling=2	295 (0.054 pts/cycle)	183 (0.087 pts/cycle)
ifft_cplx16x16	N=32, scaling=3	312 (0.103 pts/cycle)	215 (0.149 pts/cycle)
ifft_cplx16x16	N=32, scaling=2	548 (0.058 pts/cycle)	304 (0.105 pts/cycle)
ifft_cplx16x16	N=64, scaling=3	525 (0.122 pts/cycle)	331 (0.193 pts/cycle)
ifft_cplx16x16	N=64, scaling=2	900 (0.071 pts/cycle)	500 (0.128 pts/cycle)
ifft_cplx16x16	N=128, scaling=3	1178 (0.109 pts/cycle)	642 (0.199 pts/cycle)
ifft_cplx16x16	N=128, scaling=2	1910 (0.067 pts/cycle)	975 (0.131 pts/cycle)
ifft_cplx16x16	N=256, scaling=3	2258 (0.113 pts/cycle)	1236 (0.207 pts/cycle)
ifft_cplx16x16	N=256, scaling=2	3562 (0.072 pts/cycle)	1891 (0.135 pts/cycle)
ifft_cplx16x16	N=512, scaling=3	5323 (0.096 pts/cycle)	2626 (0.195 pts/cycle)
ifft_cplx16x16	N=512, scaling=2	7988 (0.064 pts/cycle)	3926 (0.130 pts/cycle)
ifft_cplx16x16	N=1024, scaling=3	10651 (0.096 pts/cycle)	5472 (0.187 pts/cycle)
ifft_cplx16x16	N=1024, scaling=2	15656 (0.065 pts/cycle)	8058 (0.127 pts/cycle)
ifft_cplx16x16	N=2048, scaling=3	24948 (0.082 pts/cycle)	11846 (0.173 pts/cycle)
ifft_cplx16x16	N=2048, scaling=2	35378 (0.058 pts/cycle)	17005 (0.120 pts/cycle)
ifft_cplx16x16	N=4096, scaling=3	50435 (0.081 pts/cycle)	25044 (0.164 pts/cycle)
ifft_cplx16x16	N=4096, scaling=2	70372 (0.058 pts/cycle)	35346 (0.116 pts/cycle)
ifft_cplx24x24	N=16, scaling=0	204 (0.078 pts/cycle)	172 (0.093 pts/cycle)
ifft_cplx24x24	N=16, scaling=1	284 (0.056 pts/cycle)	251 (0.064 pts/cycle)
ifft_cplx24x24	N=16, scaling=2	324 (0.049 pts/cycle)	286 (0.056 pts/cycle)
ifft_cplx24x24	N=16, scaling=3	216 (0.074 pts/cycle)	184 (0.087 pts/cycle)
ifft_cplx24x24	N=32, scaling=0	365 (0.088 pts/cycle)	279 (0.115 pts/cycle)
ifft_cplx24x24	N=32, scaling=1	532 (0.060 pts/cycle)	472 (0.068 pts/cycle)
ifft_cplx24x24	N=32, scaling=2	604 (0.053 pts/cycle)	533 (0.060 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
ifft_cplx24x24	N=32, scaling=3	398 (0.080 pts/cycle)	342 (0.094 pts/cycle)
ifft_cplx24x24	N=64, scaling=0	651 (0.098 pts/cycle)	485 (0.132 pts/cycle)
ifft_cplx24x24	N=64, scaling=1	845 (0.076 pts/cycle)	791 (0.081 pts/cycle)
ifft_cplx24x24	N=64, scaling=2	981 (0.065 pts/cycle)	904 (0.071 pts/cycle)
ifft_cplx24x24	N=64, scaling=3	665 (0.096 pts/cycle)	564 (0.113 pts/cycle)
ifft_cplx24x24	N=128, scaling=0	1434 (0.089 pts/cycle)	1059 (0.121 pts/cycle)
ifft_cplx24x24	N=128, scaling=1	1871 (0.068 pts/cycle)	1744 (0.073 pts/cycle)
ifft_cplx24x24	N=128, scaling=2	2135 (0.060 pts/cycle)	1961 (0.065 pts/cycle)
ifft_cplx24x24	N=128, scaling=3	1470 (0.087 pts/cycle)	1260 (0.102 pts/cycle)
ifft_cplx24x24	N=256, scaling=0	2896 (0.088 pts/cycle)	2111 (0.121 pts/cycle)
ifft_cplx24x24	N=256, scaling=1	3500 (0.073 pts/cycle)	3366 (0.076 pts/cycle)
ifft_cplx24x24	N=256, scaling=2	4020 (0.064 pts/cycle)	3791 (0.068 pts/cycle)
ifft_cplx24x24	N=256, scaling=3	2906 (0.088 pts/cycle)	2450 (0.104 pts/cycle)
ifft_cplx24x24	N=512, scaling=0	6678 (0.077 pts/cycle)	4882 (0.105 pts/cycle)
ifft_cplx24x24	N=512, scaling=1	8189 (0.063 pts/cycle)	7816 (0.066 pts/cycle)
ifft_cplx24x24	N=512, scaling=2	9220 (0.056 pts/cycle)	8657 (0.059 pts/cycle)
ifft_cplx24x24	N=512, scaling=3	6740 (0.076 pts/cycle)	5751 (0.089 pts/cycle)
ifft_cplx24x24	N=1024, scaling=0	13924 (0.074 pts/cycle)	10110 (0.101 pts/cycle)
ifft_cplx24x24	N=1024, scaling=1	16186 (0.063 pts/cycle)	15758 (0.065 pts/cycle)
ifft_cplx24x24	N=1024, scaling=2	18241 (0.056 pts/cycle)	17431 (0.059 pts/cycle)
ifft_cplx24x24	N=1024, scaling=3	13936 (0.073 pts/cycle)	11733 (0.087 pts/cycle)
ifft_cplx24x24	N=2048, scaling=0	31866 (0.064 pts/cycle)	23249 (0.088 pts/cycle)
ifft_cplx24x24	N=2048, scaling=1	37739 (0.054 pts/cycle)	36400 (0.056 pts/cycle)
ifft_cplx24x24	N=2048, scaling=2	41842 (0.049 pts/cycle)	39737 (0.052 pts/cycle)
ifft_cplx24x24	N=2048, scaling=3	32026 (0.064 pts/cycle)	27258 (0.075 pts/cycle)
ifft_cplx24x24	N=4096, scaling=0	66567 (0.062 pts/cycle)	48349 (0.085 pts/cycle)
ifft_cplx24x24	N=4096, scaling=1	75625 (0.054 pts/cycle)	74041 (0.055 pts/cycle)
ifft_cplx24x24	N=4096, scaling=2	83823 (0.049 pts/cycle)	80703 (0.051 pts/cycle)
ifft_cplx24x24	N=4096, scaling=3	66581 (0.062 pts/cycle)	56057 (0.073 pts/cycle)
ifft_cplx32x16	N=16	170 (0.094 pts/cycle)	192 (0.083 pts/cycle)
ifft_cplx32x16	N=32	342 (0.094 pts/cycle)	351 (0.091 pts/cycle)
ifft_cplx32x16	N=64	592 (0.108 pts/cycle)	593 (0.108 pts/cycle)
ifft_cplx32x16	N=128	1348 (0.095 pts/cycle)	1264 (0.101 pts/cycle)
ifft_cplx32x16	N=256	2630 (0.097 pts/cycle)	2446 (0.105 pts/cycle)
ifft_cplx32x16	N=512	6175 (0.083 pts/cycle)	5686 (0.090 pts/cycle)
ifft_cplx32x16	N=1024	12521 (0.082 pts/cycle)	11540 (0.089 pts/cycle)
ifft_cplx32x16	N=2048	29074 (0.070 pts/cycle)	26908 (0.076 pts/cycle)
ifft_cplx32x16	N=4096	59419 (0.069 pts/cycle)	55098 (0.074 pts/cycle)
ifft_cplx32x32	N=16, scaling=3	238 (0.067 pts/cycle)	170 (0.094 pts/cycle)
ifft_cplx32x32	N=16, scaling=2	362 (0.044 pts/cycle)	279 (0.057 pts/cycle)
ifft_cplx32x32	N=32, scaling=3	421 (0.076 pts/cycle)	276 (0.116 pts/cycle)
ifft_cplx32x32	N=32, scaling=2	758 (0.042 pts/cycle)	598 (0.054 pts/cycle)
ifft_cplx32x32	N=64, scaling=3	951 (0.067 pts/cycle)	662 (0.097 pts/cycle)
ifft_cplx32x32	N=64, scaling=2	1237 (0.052 pts/cycle)	993 (0.064 pts/cycle)
ifft_cplx32x32	N=128, scaling=3	1899 (0.067 pts/cycle)	1245 (0.103 pts/cycle)
ifft_cplx32x32	N=128, scaling=2	2929 (0.044 pts/cycle)	2404 (0.053 pts/cycle)
ifft_cplx32x32	N=256, scaling=3	4302 (0.060 pts/cycle)	2940 (0.087 pts/cycle)
ifft_cplx32x32	N=256, scaling=2	5496 (0.047 pts/cycle)	4552 (0.056 pts/cycle)
ifft_cplx32x32	N=512, scaling=3	9063 (0.056 pts/cycle)	5895 (0.087 pts/cycle)
ifft_cplx32x32	N=512, scaling=2	13380 (0.038 pts/cycle)	11195 (0.046 pts/cycle)
ifft_cplx32x32	N=1024, scaling=3	20479 (0.050 pts/cycle)	13769 (0.074 pts/cycle)
ifft_cplx32x32	N=1024, scaling=2	26315 (0.039 pts/cycle)	22078 (0.046 pts/cycle)
ifft_cplx32x32	N=2048, scaling=3	43549 (0.047 pts/cycle)	28120 (0.073 pts/cycle)
ifft_cplx32x32	N=2048, scaling=2	62999 (0.033 pts/cycle)	53104 (0.039 pts/cycle)
ifft_cplx32x32	N=4096, scaling=3	97145 (0.042 pts/cycle)	64541 (0.063 pts/cycle)
ifft_cplx32x32	N=4096, scaling=2	125469 (0.033 pts/cycle)	105842 (0.039 pts/cycle)
Real FFT			
fft_real16x16	N=32, scaling=3	303 (0.106 pts/cycle)	247 (0.130 pts/cycle)
fft_real16x16	N=32, scaling=2	381 (0.084 pts/cycle)	272 (0.118 pts/cycle)
fft_real16x16	N=64, scaling=3	511 (0.125 pts/cycle)	373 (0.172 pts/cycle)
fft_real16x16	N=64, scaling=2	655 (0.098 pts/cycle)	400 (0.160 pts/cycle)
fft_real16x16	N=128, scaling=3	820 (0.156 pts/cycle)	546 (0.234 pts/cycle)
fft_real16x16	N=128, scaling=2	1051 (0.122 pts/cycle)	593 (0.216 pts/cycle)
fft_real16x16	N=256, scaling=3	1700 (0.151 pts/cycle)	1004 (0.255 pts/cycle)
fft_real16x16	N=256, scaling=2	2143 (0.119 pts/cycle)	1095 (0.234 pts/cycle)
fft_real16x16	N=512, scaling=3	3205 (0.160 pts/cycle)	1799 (0.285 pts/cycle)
fft_real16x16	N=512, scaling=2	3962 (0.129 pts/cycle)	1979 (0.259 pts/cycle)
fft_real16x16	N=1024, scaling=3	7164 (0.143 pts/cycle)	3804 (0.269 pts/cycle)
fft_real16x16	N=1024, scaling=2	8718 (0.117 pts/cycle)	4159 (0.246 pts/cycle)
fft_real16x16	N=2048, scaling=3	14205 (0.144 pts/cycle)	7427 (0.276 pts/cycle)
fft_real16x16	N=2048, scaling=2	17051 (0.120 pts/cycle)	8135 (0.252 pts/cycle)
fft_real16x16	N=4096, scaling=3	32022 (0.128 pts/cycle)	16289 (0.251 pts/cycle)
fft_real16x16	N=4096, scaling=2	38095 (0.108 pts/cycle)	17700 (0.231 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
fft_real24x24	N=32, scaling=0	340 (0.094 pts/cycle)	300 (0.107 pts/cycle)
fft_real24x24	N=32, scaling=1	522 (0.061 pts/cycle)	474 (0.068 pts/cycle)
fft_real24x24	N=32, scaling=2	522 (0.061 pts/cycle)	473 (0.068 pts/cycle)
fft_real24x24	N=32, scaling=3	458 (0.070 pts/cycle)	408 (0.078 pts/cycle)
fft_real24x24	N=64, scaling=0	555 (0.115 pts/cycle)	463 (0.138 pts/cycle)
fft_real24x24	N=64, scaling=1	891 (0.072 pts/cycle)	809 (0.079 pts/cycle)
fft_real24x24	N=64, scaling=2	891 (0.072 pts/cycle)	808 (0.079 pts/cycle)
fft_real24x24	N=64, scaling=3	760 (0.084 pts/cycle)	681 (0.094 pts/cycle)
fft_real24x24	N=128, scaling=0	953 (0.134 pts/cycle)	781 (0.164 pts/cycle)
fft_real24x24	N=128, scaling=1	1443 (0.089 pts/cycle)	1355 (0.094 pts/cycle)
fft_real24x24	N=128, scaling=2	1445 (0.089 pts/cycle)	1354 (0.095 pts/cycle)
fft_real24x24	N=128, scaling=3	1267 (0.101 pts/cycle)	1130 (0.113 pts/cycle)
fft_real24x24	N=256, scaling=0	1960 (0.131 pts/cycle)	1579 (0.162 pts/cycle)
fft_real24x24	N=256, scaling=1	2950 (0.087 pts/cycle)	2765 (0.093 pts/cycle)
fft_real24x24	N=256, scaling=2	2950 (0.087 pts/cycle)	2764 (0.093 pts/cycle)
fft_real24x24	N=256, scaling=3	2552 (0.100 pts/cycle)	2283 (0.112 pts/cycle)
fft_real24x24	N=512, scaling=0	3870 (0.132 pts/cycle)	3079 (0.166 pts/cycle)
fft_real24x24	N=512, scaling=1	5538 (0.092 pts/cycle)	5298 (0.097 pts/cycle)
fft_real24x24	N=512, scaling=2	5538 (0.092 pts/cycle)	5297 (0.097 pts/cycle)
fft_real24x24	N=512, scaling=3	4948 (0.103 pts/cycle)	4384 (0.117 pts/cycle)
fft_real24x24	N=1024, scaling=0	8548 (0.120 pts/cycle)	6746 (0.152 pts/cycle)
fft_real24x24	N=1024, scaling=1	12148 (0.084 pts/cycle)	11573 (0.088 pts/cycle)
fft_real24x24	N=1024, scaling=2	12148 (0.084 pts/cycle)	11572 (0.088 pts/cycle)
fft_real24x24	N=1024, scaling=3	10702 (0.096 pts/cycle)	9510 (0.108 pts/cycle)
fft_real24x24	N=2048, scaling=0	17586 (0.116 pts/cycle)	13766 (0.149 pts/cycle)
fft_real24x24	N=2048, scaling=1	23984 (0.085 pts/cycle)	23162 (0.088 pts/cycle)
fft_real24x24	N=2048, scaling=2	23984 (0.085 pts/cycle)	23161 (0.088 pts/cycle)
fft_real24x24	N=2048, scaling=3	21737 (0.094 pts/cycle)	19139 (0.107 pts/cycle)
fft_real24x24	N=4096, scaling=0	39113 (0.105 pts/cycle)	30490 (0.134 pts/cycle)
fft_real24x24	N=4096, scaling=1	53218 (0.077 pts/cycle)	51102 (0.080 pts/cycle)
fft_real24x24	N=4096, scaling=2	53217 (0.077 pts/cycle)	51101 (0.080 pts/cycle)
fft_real24x24	N=4096, scaling=3	47508 (0.086 pts/cycle)	41962 (0.098 pts/cycle)
fft_real32x16	N=32	311 (0.103 pts/cycle)	283 (0.113 pts/cycle)
fft_real32x16	N=64	542 (0.118 pts/cycle)	496 (0.129 pts/cycle)
fft_real32x16	N=128	913 (0.140 pts/cycle)	864 (0.148 pts/cycle)
fft_real32x16	N=256	1908 (0.134 pts/cycle)	1786 (0.143 pts/cycle)
fft_real32x16	N=512	3670 (0.140 pts/cycle)	3481 (0.147 pts/cycle)
fft_real32x16	N=1024	8175 (0.125 pts/cycle)	7738 (0.132 pts/cycle)
fft_real32x16	N=2048	16441 (0.125 pts/cycle)	15633 (0.131 pts/cycle)
fft_real32x16	N=4096	36835 (0.111 pts/cycle)	34979 (0.117 pts/cycle)
fft_real32x32	N=32, scaling=3	410 (0.078 pts/cycle)	319 (0.100 pts/cycle)
fft_real32x32	N=32, scaling=2	600 (0.053 pts/cycle)	488 (0.066 pts/cycle)
fft_real32x32	N=64, scaling=3	669 (0.096 pts/cycle)	486 (0.132 pts/cycle)
fft_real32x32	N=64, scaling=2	1105 (0.058 pts/cycle)	899 (0.071 pts/cycle)
fft_real32x32	N=128, scaling=3	1350 (0.095 pts/cycle)	992 (0.129 pts/cycle)
fft_real32x32	N=128, scaling=2	1806 (0.071 pts/cycle)	1484 (0.086 pts/cycle)
fft_real32x32	N=256, scaling=3	2602 (0.098 pts/cycle)	1815 (0.141 pts/cycle)
fft_real32x32	N=256, scaling=2	3924 (0.065 pts/cycle)	3257 (0.079 pts/cycle)
fft_real32x32	N=512, scaling=3	5613 (0.091 pts/cycle)	3989 (0.128 pts/cycle)
fft_real32x32	N=512, scaling=2	7361 (0.070 pts/cycle)	6140 (0.083 pts/cycle)
fft_real32x32	N=1024, scaling=3	11590 (0.088 pts/cycle)	7904 (0.130 pts/cycle)
fft_real32x32	N=1024, scaling=2	16967 (0.060 pts/cycle)	14255 (0.072 pts/cycle)
fft_real32x32	N=2048, scaling=3	25438 (0.081 pts/cycle)	17698 (0.116 pts/cycle)
fft_real32x32	N=2048, scaling=2	33358 (0.061 pts/cycle)	28082 (0.073 pts/cycle)
fft_real32x32	N=4096, scaling=3	53372 (0.077 pts/cycle)	35889 (0.114 pts/cycle)
fft_real32x32	N=4096, scaling=2	76953 (0.053 pts/cycle)	64997 (0.063 pts/cycle)
fft_real32x32	N=8192, scaling=3	116699 (0.070 pts/cycle)	79992 (0.102 pts/cycle)
fft_real32x32	N=8192, scaling=2	153249 (0.053 pts/cycle)	129513 (0.063 pts/cycle)
ifft_real16x16	N=32, scaling=3	319 (0.100 pts/cycle)	245 (0.131 pts/cycle)
ifft_real16x16	N=32, scaling=2	521 (0.061 pts/cycle)	374 (0.086 pts/cycle)
ifft_real16x16	N=64, scaling=3	538 (0.119 pts/cycle)	376 (0.170 pts/cycle)
ifft_real16x16	N=64, scaling=2	887 (0.072 pts/cycle)	564 (0.113 pts/cycle)
ifft_real16x16	N=128, scaling=3	886 (0.144 pts/cycle)	556 (0.230 pts/cycle)
ifft_real16x16	N=128, scaling=2	1463 (0.087 pts/cycle)	896 (0.143 pts/cycle)
ifft_real16x16	N=256, scaling=3	1811 (0.141 pts/cycle)	995 (0.257 pts/cycle)
ifft_real16x16	N=256, scaling=2	2921 (0.088 pts/cycle)	1643 (0.156 pts/cycle)
ifft_real16x16	N=512, scaling=3	3435 (0.149 pts/cycle)	1845 (0.278 pts/cycle)
ifft_real16x16	N=512, scaling=2	5469 (0.094 pts/cycle)	3103 (0.165 pts/cycle)
ifft_real16x16	N=1024, scaling=3	7588 (0.135 pts/cycle)	3747 (0.273 pts/cycle)
ifft_real16x16	N=1024, scaling=2	11687 (0.088 pts/cycle)	6226 (0.164 pts/cycle)
ifft_real16x16	N=2048, scaling=3	15092 (0.136 pts/cycle)	7617 (0.269 pts/cycle)
ifft_real16x16	N=2048, scaling=2	22938 (0.089 pts/cycle)	12534 (0.163 pts/cycle)
ifft_real16x16	N=4096, scaling=3	33743 (0.121 pts/cycle)	16040 (0.255 pts/cycle)
ifft_real16x16	N=4096, scaling=2	49829 (0.082 pts/cycle)	25834 (0.159 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
ifft_real24x24	N=32, scaling=0	349 (0.092 pts/cycle)	309 (0.104 pts/cycle)
ifft_real24x24	N=32, scaling=1	544 (0.059 pts/cycle)	497 (0.064 pts/cycle)
ifft_real24x24	N=32, scaling=2	543 (0.059 pts/cycle)	493 (0.065 pts/cycle)
ifft_real24x24	N=32, scaling=3	373 (0.086 pts/cycle)	332 (0.096 pts/cycle)
ifft_real24x24	N=64, scaling=0	573 (0.112 pts/cycle)	480 (0.133 pts/cycle)
ifft_real24x24	N=64, scaling=1	920 (0.070 pts/cycle)	840 (0.076 pts/cycle)
ifft_real24x24	N=64, scaling=2	918 (0.070 pts/cycle)	836 (0.077 pts/cycle)
ifft_real24x24	N=64, scaling=3	628 (0.102 pts/cycle)	562 (0.114 pts/cycle)
ifft_real24x24	N=128, scaling=0	986 (0.130 pts/cycle)	814 (0.157 pts/cycle)
ifft_real24x24	N=128, scaling=1	1490 (0.086 pts/cycle)	1403 (0.091 pts/cycle)
ifft_real24x24	N=128, scaling=2	1487 (0.086 pts/cycle)	1399 (0.091 pts/cycle)
ifft_real24x24	N=128, scaling=3	1039 (0.123 pts/cycle)	928 (0.138 pts/cycle)
ifft_real24x24	N=256, scaling=0	2025 (0.126 pts/cycle)	1644 (0.156 pts/cycle)
ifft_real24x24	N=256, scaling=1	3028 (0.085 pts/cycle)	2844 (0.090 pts/cycle)
ifft_real24x24	N=256, scaling=2	3025 (0.085 pts/cycle)	2840 (0.090 pts/cycle)
ifft_real24x24	N=256, scaling=3	2132 (0.120 pts/cycle)	1912 (0.134 pts/cycle)
ifft_real24x24	N=512, scaling=0	3999 (0.128 pts/cycle)	3208 (0.160 pts/cycle)
ifft_real24x24	N=512, scaling=1	5681 (0.090 pts/cycle)	5442 (0.094 pts/cycle)
ifft_real24x24	N=512, scaling=2	5678 (0.090 pts/cycle)	5438 (0.094 pts/cycle)
ifft_real24x24	N=512, scaling=3	4144 (0.124 pts/cycle)	3678 (0.139 pts/cycle)
ifft_real24x24	N=1024, scaling=0	8805 (0.116 pts/cycle)	7003 (0.146 pts/cycle)
ifft_real24x24	N=1024, scaling=1	12416 (0.082 pts/cycle)	11842 (0.086 pts/cycle)
ifft_real24x24	N=1024, scaling=2	12415 (0.082 pts/cycle)	11840 (0.086 pts/cycle)
ifft_real24x24	N=1024, scaling=3	9130 (0.112 pts/cycle)	8131 (0.126 pts/cycle)
ifft_real24x24	N=2048, scaling=0	18099 (0.113 pts/cycle)	14279 (0.143 pts/cycle)
ifft_real24x24	N=2048, scaling=1	24509 (0.084 pts/cycle)	23688 (0.086 pts/cycle)
ifft_real24x24	N=2048, scaling=2	24508 (0.084 pts/cycle)	23686 (0.086 pts/cycle)
ifft_real24x24	N=2048, scaling=3	18630 (0.110 pts/cycle)	16417 (0.125 pts/cycle)
ifft_real24x24	N=4096, scaling=0	40138 (0.102 pts/cycle)	31515 (0.130 pts/cycle)
ifft_real24x24	N=4096, scaling=1	54254 (0.075 pts/cycle)	52141 (0.079 pts/cycle)
ifft_real24x24	N=4096, scaling=2	54254 (0.075 pts/cycle)	52137 (0.079 pts/cycle)
ifft_real24x24	N=4096, scaling=3	41328 (0.099 pts/cycle)	36551 (0.112 pts/cycle)
ifft_real32x16	N=32	318 (0.101 pts/cycle)	333 (0.096 pts/cycle)
ifft_real32x16	N=64	557 (0.115 pts/cycle)	560 (0.114 pts/cycle)
ifft_real32x16	N=128	944 (0.136 pts/cycle)	938 (0.136 pts/cycle)
ifft_real32x16	N=256	1971 (0.130 pts/cycle)	1881 (0.136 pts/cycle)
ifft_real32x16	N=512	3797 (0.135 pts/cycle)	3607 (0.142 pts/cycle)
ifft_real32x16	N=1024	8430 (0.121 pts/cycle)	7935 (0.129 pts/cycle)
ifft_real32x16	N=2048	16953 (0.121 pts/cycle)	15965 (0.128 pts/cycle)
ifft_real32x16	N=4096	37858 (0.108 pts/cycle)	35686 (0.115 pts/cycle)
ifft_real32x32	N=32, scaling=3	424 (0.075 pts/cycle)	321 (0.100 pts/cycle)
ifft_real32x32	N=32, scaling=2	616 (0.052 pts/cycle)	497 (0.064 pts/cycle)
ifft_real32x32	N=64, scaling=3	683 (0.094 pts/cycle)	488 (0.131 pts/cycle)
ifft_real32x32	N=64, scaling=2	1120 (0.057 pts/cycle)	908 (0.070 pts/cycle)
ifft_real32x32	N=128, scaling=3	1364 (0.094 pts/cycle)	994 (0.129 pts/cycle)
ifft_real32x32	N=128, scaling=2	1815 (0.071 pts/cycle)	1487 (0.086 pts/cycle)
ifft_real32x32	N=256, scaling=3	2616 (0.098 pts/cycle)	1817 (0.141 pts/cycle)
ifft_real32x32	N=256, scaling=2	3940 (0.065 pts/cycle)	3266 (0.078 pts/cycle)
ifft_real32x32	N=512, scaling=3	5627 (0.091 pts/cycle)	3991 (0.128 pts/cycle)
ifft_real32x32	N=512, scaling=2	7371 (0.069 pts/cycle)	6149 (0.083 pts/cycle)
ifft_real32x32	N=1024, scaling=3	11604 (0.088 pts/cycle)	7906 (0.130 pts/cycle)
ifft_real32x32	N=1024, scaling=2	16983 (0.060 pts/cycle)	14264 (0.072 pts/cycle)
ifft_real32x32	N=2048, scaling=3	25452 (0.080 pts/cycle)	17700 (0.116 pts/cycle)
ifft_real32x32	N=2048, scaling=2	33374 (0.061 pts/cycle)	28091 (0.073 pts/cycle)
ifft_real32x32	N=4096, scaling=3	53387 (0.077 pts/cycle)	35893 (0.114 pts/cycle)
ifft_real32x32	N=4096, scaling=2	76970 (0.053 pts/cycle)	65006 (0.063 pts/cycle)
ifft_real32x32	N=8192, scaling=3	116712 (0.070 pts/cycle)	79994 (0.102 pts/cycle)
ifft_real32x32	N=8192, scaling=2	153264 (0.053 pts/cycle)	129520 (0.063 pts/cycle)
Mixed Radix Complex FFT			
fft_cplx32x32	N=12, scaling=3	248 (0.048 pts/cycle)	176 (0.068 pts/cycle)
fft_cplx32x32	N=12, scaling=2	353 (0.034 pts/cycle)	272 (0.044 pts/cycle)
fft_cplx32x32	N=24, scaling=3	399 (0.060 pts/cycle)	264 (0.091 pts/cycle)
fft_cplx32x32	N=24, scaling=2	680 (0.035 pts/cycle)	530 (0.045 pts/cycle)
fft_cplx32x32	N=36, scaling=3	697 (0.052 pts/cycle)	530 (0.068 pts/cycle)
fft_cplx32x32	N=36, scaling=2	954 (0.038 pts/cycle)	746 (0.048 pts/cycle)
fft_cplx32x32	N=48, scaling=3	841 (0.057 pts/cycle)	595 (0.081 pts/cycle)
fft_cplx32x32	N=48, scaling=2	1060 (0.045 pts/cycle)	858 (0.056 pts/cycle)
fft_cplx32x32	N=60, scaling=3	1156 (0.052 pts/cycle)	864 (0.069 pts/cycle)
fft_cplx32x32	N=60, scaling=2	1488 (0.040 pts/cycle)	1136 (0.053 pts/cycle)
fft_cplx32x32	N=72, scaling=3	1479 (0.049 pts/cycle)	1170 (0.062 pts/cycle)
fft_cplx32x32	N=72, scaling=2	1989 (0.036 pts/cycle)	1542 (0.047 pts/cycle)
fft_cplx32x32	N=80, scaling=3	1439 (0.056 pts/cycle)	991 (0.081 pts/cycle)
fft_cplx32x32	N=80, scaling=2	1759 (0.045 pts/cycle)	1386 (0.058 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
fft_cplx32x32	N=96, scaling=3	1877 (0.051 pts/cycle)	1318 (0.073 pts/cycle)
fft_cplx32x32	N=96, scaling=2	2530 (0.038 pts/cycle)	2142 (0.045 pts/cycle)
fft_cplx32x32	N=100, scaling=3	2248 (0.044 pts/cycle)	1502 (0.067 pts/cycle)
fft_cplx32x32	N=100, scaling=2	2834 (0.035 pts/cycle)	1973 (0.051 pts/cycle)
fft_cplx32x32	N=108, scaling=3	2125 (0.051 pts/cycle)	1725 (0.063 pts/cycle)
fft_cplx32x32	N=108, scaling=2	2839 (0.038 pts/cycle)	2234 (0.048 pts/cycle)
fft_cplx32x32	N=120, scaling=3	2659 (0.045 pts/cycle)	1983 (0.061 pts/cycle)
fft_cplx32x32	N=120, scaling=2	3340 (0.036 pts/cycle)	2600 (0.046 pts/cycle)
fft_cplx32x32	N=144, scaling=3	2653 (0.054 pts/cycle)	1994 (0.072 pts/cycle)
fft_cplx32x32	N=144, scaling=2	3486 (0.041 pts/cycle)	2823 (0.051 pts/cycle)
fft_cplx32x32	N=160, scaling=3	3046 (0.053 pts/cycle)	2008 (0.080 pts/cycle)
fft_cplx32x32	N=160, scaling=2	3910 (0.041 pts/cycle)	2725 (0.059 pts/cycle)
fft_cplx32x32	N=180, scaling=3	3831 (0.047 pts/cycle)	3042 (0.059 pts/cycle)
fft_cplx32x32	N=180, scaling=2	4837 (0.037 pts/cycle)	3716 (0.048 pts/cycle)
fft_cplx32x32	N=192, scaling=3	3426 (0.056 pts/cycle)	2335 (0.082 pts/cycle)
fft_cplx32x32	N=192, scaling=2	4354 (0.044 pts/cycle)	3535 (0.054 pts/cycle)
fft_cplx32x32	N=200, scaling=3	5202 (0.038 pts/cycle)	3500 (0.057 pts/cycle)
fft_cplx32x32	N=200, scaling=2	6136 (0.033 pts/cycle)	4346 (0.046 pts/cycle)
fft_cplx32x32	N=216, scaling=3	4834 (0.045 pts/cycle)	4023 (0.054 pts/cycle)
fft_cplx32x32	N=216, scaling=2	6376 (0.034 pts/cycle)	4960 (0.044 pts/cycle)
fft_cplx32x32	N=240, scaling=3	4997 (0.048 pts/cycle)	3369 (0.071 pts/cycle)
fft_cplx32x32	N=240, scaling=2	6087 (0.039 pts/cycle)	4850 (0.049 pts/cycle)
fft_cplx32x32	N=288, scaling=3	6319 (0.046 pts/cycle)	4686 (0.061 pts/cycle)
fft_cplx32x32	N=288, scaling=2	7925 (0.036 pts/cycle)	6464 (0.045 pts/cycle)
fft_cplx32x32	N=300, scaling=3	7586 (0.040 pts/cycle)	4979 (0.060 pts/cycle)
fft_cplx32x32	N=300, scaling=2	9531 (0.031 pts/cycle)	6790 (0.044 pts/cycle)
fft_cplx32x32	N=324, scaling=3	7185 (0.045 pts/cycle)	6078 (0.053 pts/cycle)
fft_cplx32x32	N=324, scaling=2	9435 (0.034 pts/cycle)	7422 (0.044 pts/cycle)
fft_cplx32x32	N=360, scaling=3	8261 (0.044 pts/cycle)	6562 (0.055 pts/cycle)
fft_cplx32x32	N=360, scaling=2	10633 (0.034 pts/cycle)	8422 (0.043 pts/cycle)
fft_cplx32x32	N=384, scaling=3	6958 (0.055 pts/cycle)	5018 (0.077 pts/cycle)
fft_cplx32x32	N=384, scaling=2	8864 (0.043 pts/cycle)	7067 (0.054 pts/cycle)
fft_cplx32x32	N=400, scaling=3	9733 (0.041 pts/cycle)	6403 (0.062 pts/cycle)
fft_cplx32x32	N=400, scaling=2	12255 (0.033 pts/cycle)	8838 (0.045 pts/cycle)
fft_cplx32x32	N=432, scaling=3	9138 (0.047 pts/cycle)	7229 (0.060 pts/cycle)
fft_cplx32x32	N=432, scaling=2	12078 (0.036 pts/cycle)	9737 (0.044 pts/cycle)
fft_cplx32x32	N=480, scaling=3	11641 (0.041 pts/cycle)	8493 (0.057 pts/cycle)
fft_cplx32x32	N=480, scaling=2	13780 (0.035 pts/cycle)	10946 (0.044 pts/cycle)
fft_cplx32x32	N=540, scaling=3	13264 (0.041 pts/cycle)	10955 (0.049 pts/cycle)
fft_cplx32x32	N=540, scaling=2	16598 (0.033 pts/cycle)	12788 (0.042 pts/cycle)
fft_cplx32x32	N=576, scaling=3	11869 (0.049 pts/cycle)	8690 (0.066 pts/cycle)
fft_cplx32x32	N=576, scaling=2	15577 (0.037 pts/cycle)	12865 (0.045 pts/cycle)
fft_cplx32x32	N=600, scaling=3	15728 (0.038 pts/cycle)	10483 (0.057 pts/cycle)
fft_cplx32x32	N=600, scaling=2	20325 (0.030 pts/cycle)	13401 (0.045 pts/cycle)
fft_cplx32x32	N=768, scaling=3	16170 (0.047 pts/cycle)	10989 (0.070 pts/cycle)
fft_cplx32x32	N=768, scaling=2	20169 (0.038 pts/cycle)	17074 (0.045 pts/cycle)
fft_cplx32x32	N=960, scaling=3	22120 (0.043 pts/cycle)	15918 (0.060 pts/cycle)
fft_cplx32x32	N=960, scaling=2	27944 (0.034 pts/cycle)	22502 (0.043 pts/cycle)
ifft_cplx32x32	N=12, scaling=3	252 (0.048 pts/cycle)	184 (0.065 pts/cycle)
ifft_cplx32x32	N=12, scaling=2	365 (0.033 pts/cycle)	289 (0.042 pts/cycle)
ifft_cplx32x32	N=24, scaling=3	402 (0.060 pts/cycle)	272 (0.088 pts/cycle)
ifft_cplx32x32	N=24, scaling=2	692 (0.035 pts/cycle)	549 (0.044 pts/cycle)
ifft_cplx32x32	N=36, scaling=3	704 (0.051 pts/cycle)	530 (0.068 pts/cycle)
ifft_cplx32x32	N=36, scaling=2	962 (0.037 pts/cycle)	750 (0.048 pts/cycle)
ifft_cplx32x32	N=48, scaling=3	847 (0.057 pts/cycle)	595 (0.081 pts/cycle)
ifft_cplx32x32	N=48, scaling=2	1068 (0.045 pts/cycle)	862 (0.056 pts/cycle)
ifft_cplx32x32	N=60, scaling=3	1163 (0.052 pts/cycle)	863 (0.070 pts/cycle)
ifft_cplx32x32	N=60, scaling=2	1497 (0.040 pts/cycle)	1140 (0.053 pts/cycle)
ifft_cplx32x32	N=72, scaling=3	1486 (0.048 pts/cycle)	1168 (0.062 pts/cycle)
ifft_cplx32x32	N=72, scaling=2	1998 (0.036 pts/cycle)	1546 (0.047 pts/cycle)
ifft_cplx32x32	N=80, scaling=3	1446 (0.055 pts/cycle)	989 (0.081 pts/cycle)
ifft_cplx32x32	N=80, scaling=2	1768 (0.045 pts/cycle)	1390 (0.058 pts/cycle)
ifft_cplx32x32	N=96, scaling=3	1884 (0.051 pts/cycle)	1316 (0.073 pts/cycle)
ifft_cplx32x32	N=96, scaling=2	2539 (0.038 pts/cycle)	2146 (0.045 pts/cycle)
ifft_cplx32x32	N=100, scaling=3	2255 (0.044 pts/cycle)	1500 (0.067 pts/cycle)
ifft_cplx32x32	N=100, scaling=2	2843 (0.035 pts/cycle)	1977 (0.051 pts/cycle)
ifft_cplx32x32	N=108, scaling=3	2132 (0.051 pts/cycle)	1723 (0.063 pts/cycle)
ifft_cplx32x32	N=108, scaling=2	2848 (0.038 pts/cycle)	2238 (0.048 pts/cycle)
ifft_cplx32x32	N=120, scaling=3	2666 (0.045 pts/cycle)	1981 (0.061 pts/cycle)
ifft_cplx32x32	N=120, scaling=2	3349 (0.036 pts/cycle)	2604 (0.046 pts/cycle)
ifft_cplx32x32	N=144, scaling=3	2660 (0.054 pts/cycle)	1992 (0.072 pts/cycle)
ifft_cplx32x32	N=144, scaling=2	3495 (0.041 pts/cycle)	2827 (0.051 pts/cycle)
ifft_cplx32x32	N=160, scaling=3	3053 (0.052 pts/cycle)	2006 (0.080 pts/cycle)
ifft_cplx32x32	N=160, scaling=2	3919 (0.041 pts/cycle)	2729 (0.059 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
ifft_cplx32x32	N=180, scaling=3	3838 (0.047 pts/cycle)	3040 (0.059 pts/cycle)
ifft_cplx32x32	N=180, scaling=2	4846 (0.037 pts/cycle)	3720 (0.048 pts/cycle)
ifft_cplx32x32	N=192, scaling=3	3430 (0.056 pts/cycle)	2341 (0.082 pts/cycle)
ifft_cplx32x32	N=192, scaling=2	4367 (0.044 pts/cycle)	3554 (0.054 pts/cycle)
ifft_cplx32x32	N=200, scaling=3	5209 (0.038 pts/cycle)	3498 (0.057 pts/cycle)
ifft_cplx32x32	N=200, scaling=2	6145 (0.033 pts/cycle)	4350 (0.046 pts/cycle)
ifft_cplx32x32	N=216, scaling=3	4841 (0.045 pts/cycle)	4021 (0.054 pts/cycle)
ifft_cplx32x32	N=216, scaling=2	6385 (0.034 pts/cycle)	4964 (0.044 pts/cycle)
ifft_cplx32x32	N=240, scaling=3	5001 (0.048 pts/cycle)	3375 (0.071 pts/cycle)
ifft_cplx32x32	N=240, scaling=2	6100 (0.039 pts/cycle)	4869 (0.049 pts/cycle)
ifft_cplx32x32	N=288, scaling=3	6326 (0.046 pts/cycle)	4684 (0.061 pts/cycle)
ifft_cplx32x32	N=288, scaling=2	7934 (0.036 pts/cycle)	6468 (0.045 pts/cycle)
ifft_cplx32x32	N=300, scaling=3	7590 (0.040 pts/cycle)	4985 (0.060 pts/cycle)
ifft_cplx32x32	N=300, scaling=2	9544 (0.031 pts/cycle)	6809 (0.044 pts/cycle)
ifft_cplx32x32	N=324, scaling=3	7192 (0.045 pts/cycle)	6076 (0.053 pts/cycle)
ifft_cplx32x32	N=324, scaling=2	9444 (0.034 pts/cycle)	7426 (0.044 pts/cycle)
ifft_cplx32x32	N=360, scaling=3	8266 (0.044 pts/cycle)	6575 (0.055 pts/cycle)
ifft_cplx32x32	N=360, scaling=2	10645 (0.034 pts/cycle)	8434 (0.043 pts/cycle)
ifft_cplx32x32	N=384, scaling=3	6965 (0.055 pts/cycle)	5016 (0.077 pts/cycle)
ifft_cplx32x32	N=384, scaling=2	8873 (0.043 pts/cycle)	7071 (0.054 pts/cycle)
ifft_cplx32x32	N=400, scaling=3	9740 (0.041 pts/cycle)	6401 (0.062 pts/cycle)
ifft_cplx32x32	N=400, scaling=2	12264 (0.033 pts/cycle)	8842 (0.045 pts/cycle)
ifft_cplx32x32	N=432, scaling=3	9145 (0.047 pts/cycle)	7227 (0.060 pts/cycle)
ifft_cplx32x32	N=432, scaling=2	12087 (0.036 pts/cycle)	9741 (0.044 pts/cycle)
ifft_cplx32x32	N=480, scaling=3	11648 (0.041 pts/cycle)	8491 (0.057 pts/cycle)
ifft_cplx32x32	N=480, scaling=2	13789 (0.035 pts/cycle)	10950 (0.044 pts/cycle)
ifft_cplx32x32	N=540, scaling=3	13271 (0.041 pts/cycle)	10953 (0.049 pts/cycle)
ifft_cplx32x32	N=540, scaling=2	16607 (0.033 pts/cycle)	12792 (0.042 pts/cycle)
ifft_cplx32x32	N=576, scaling=3	11876 (0.049 pts/cycle)	8688 (0.066 pts/cycle)
ifft_cplx32x32	N=576, scaling=2	15586 (0.037 pts/cycle)	12869 (0.045 pts/cycle)
ifft_cplx32x32	N=600, scaling=3	15732 (0.038 pts/cycle)	10489 (0.057 pts/cycle)
ifft_cplx32x32	N=600, scaling=2	20338 (0.030 pts/cycle)	13418 (0.045 pts/cycle)
ifft_cplx32x32	N=768, scaling=3	16177 (0.047 pts/cycle)	10987 (0.070 pts/cycle)
ifft_cplx32x32	N=768, scaling=2	20179 (0.038 pts/cycle)	17077 (0.045 pts/cycle)
ifft_cplx32x32	N=960, scaling=3	22127 (0.043 pts/cycle)	15918 (0.060 pts/cycle)
ifft_cplx32x32	N=960, scaling=2	27952 (0.034 pts/cycle)	22502 (0.043 pts/cycle)
Mixed Radix Real FFT			
fft_real32x32	N=12, scaling=3	327 (0.037 pts/cycle)	255 (0.047 pts/cycle)
fft_real32x32	N=12, scaling=2	455 (0.026 pts/cycle)	376 (0.032 pts/cycle)
fft_real32x32	N=24, scaling=3	406 (0.059 pts/cycle)	313 (0.077 pts/cycle)
fft_real32x32	N=24, scaling=2	572 (0.042 pts/cycle)	462 (0.052 pts/cycle)
fft_real32x32	N=30, scaling=3	537 (0.056 pts/cycle)	398 (0.075 pts/cycle)
fft_real32x32	N=30, scaling=2	718 (0.042 pts/cycle)	565 (0.053 pts/cycle)
fft_real32x32	N=36, scaling=3	663 (0.054 pts/cycle)	502 (0.072 pts/cycle)
fft_real32x32	N=36, scaling=2	942 (0.038 pts/cycle)	768 (0.047 pts/cycle)
fft_real32x32	N=48, scaling=3	615 (0.078 pts/cycle)	447 (0.107 pts/cycle)
fft_real32x32	N=48, scaling=2	982 (0.049 pts/cycle)	789 (0.061 pts/cycle)
fft_real32x32	N=60, scaling=3	917 (0.065 pts/cycle)	723 (0.083 pts/cycle)
fft_real32x32	N=60, scaling=2	1247 (0.048 pts/cycle)	968 (0.062 pts/cycle)
fft_real32x32	N=72, scaling=3	970 (0.074 pts/cycle)	759 (0.095 pts/cycle)
fft_real32x32	N=72, scaling=2	1337 (0.054 pts/cycle)	1074 (0.067 pts/cycle)
fft_real32x32	N=90, scaling=3	1315 (0.068 pts/cycle)	992 (0.091 pts/cycle)
fft_real32x32	N=90, scaling=2	1718 (0.052 pts/cycle)	1334 (0.067 pts/cycle)
fft_real32x32	N=96, scaling=3	1171 (0.082 pts/cycle)	869 (0.110 pts/cycle)
fft_real32x32	N=96, scaling=2	1524 (0.063 pts/cycle)	1255 (0.076 pts/cycle)
fft_real32x32	N=108, scaling=3	1536 (0.070 pts/cycle)	1268 (0.085 pts/cycle)
fft_real32x32	N=108, scaling=2	2121 (0.051 pts/cycle)	1688 (0.064 pts/cycle)
fft_real32x32	N=120, scaling=3	1543 (0.078 pts/cycle)	1182 (0.102 pts/cycle)
fft_real32x32	N=120, scaling=2	2034 (0.059 pts/cycle)	1602 (0.075 pts/cycle)
fft_real32x32	N=144, scaling=3	1924 (0.075 pts/cycle)	1532 (0.094 pts/cycle)
fft_real32x32	N=144, scaling=2	2615 (0.055 pts/cycle)	2077 (0.069 pts/cycle)
fft_real32x32	N=180, scaling=3	2519 (0.071 pts/cycle)	2034 (0.088 pts/cycle)
fft_real32x32	N=180, scaling=2	3334 (0.054 pts/cycle)	2615 (0.069 pts/cycle)
fft_real32x32	N=192, scaling=3	2436 (0.079 pts/cycle)	1770 (0.108 pts/cycle)
fft_real32x32	N=192, scaling=2	3318 (0.058 pts/cycle)	2815 (0.068 pts/cycle)
fft_real32x32	N=216, scaling=3	2741 (0.079 pts/cycle)	2222 (0.097 pts/cycle)
fft_real32x32	N=216, scaling=2	3709 (0.058 pts/cycle)	2976 (0.073 pts/cycle)
fft_real32x32	N=240, scaling=3	3331 (0.072 pts/cycle)	2525 (0.095 pts/cycle)
fft_real32x32	N=240, scaling=2	4290 (0.056 pts/cycle)	3411 (0.070 pts/cycle)
fft_real32x32	N=288, scaling=3	3440 (0.084 pts/cycle)	2626 (0.110 pts/cycle)
fft_real32x32	N=288, scaling=2	4599 (0.063 pts/cycle)	3772 (0.076 pts/cycle)
fft_real32x32	N=300, scaling=3	4617 (0.065 pts/cycle)	3431 (0.087 pts/cycle)
fft_real32x32	N=300, scaling=2	6018 (0.050 pts/cycle)	4428 (0.068 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
fft_real32x32	N=324, scaling=3	4493 (0.072 pts/cycle)	3821 (0.085 pts/cycle)
fft_real32x32	N=324, scaling=2	6103 (0.053 pts/cycle)	4883 (0.066 pts/cycle)
fft_real32x32	N=360, scaling=3	4789 (0.075 pts/cycle)	3809 (0.095 pts/cycle)
fft_real32x32	N=360, scaling=2	6192 (0.058 pts/cycle)	4872 (0.074 pts/cycle)
fft_real32x32	N=384, scaling=3	4440 (0.086 pts/cycle)	3147 (0.122 pts/cycle)
fft_real32x32	N=384, scaling=2	5791 (0.066 pts/cycle)	4760 (0.081 pts/cycle)
fft_real32x32	N=432, scaling=3	5962 (0.072 pts/cycle)	4925 (0.088 pts/cycle)
fft_real32x32	N=432, scaling=2	7974 (0.054 pts/cycle)	6323 (0.068 pts/cycle)
fft_real32x32	N=480, scaling=3	6240 (0.077 pts/cycle)	4361 (0.110 pts/cycle)
fft_real32x32	N=480, scaling=2	7848 (0.061 pts/cycle)	6351 (0.076 pts/cycle)
fft_real32x32	N=540, scaling=3	7899 (0.068 pts/cycle)	6615 (0.082 pts/cycle)
fft_real32x32	N=540, scaling=2	10295 (0.052 pts/cycle)	8116 (0.067 pts/cycle)
fft_real32x32	N=576, scaling=3	7789 (0.074 pts/cycle)	5858 (0.098 pts/cycle)
fft_real32x32	N=576, scaling=2	10010 (0.058 pts/cycle)	8241 (0.070 pts/cycle)
fft_real32x32	N=720, scaling=3	10074 (0.071 pts/cycle)	8003 (0.090 pts/cycle)
fft_real32x32	N=720, scaling=2	13203 (0.055 pts/cycle)	10613 (0.068 pts/cycle)
fft_real32x32	N=768, scaling=3	10173 (0.075 pts/cycle)	7182 (0.107 pts/cycle)
fft_real32x32	N=768, scaling=2	13683 (0.056 pts/cycle)	11757 (0.065 pts/cycle)
fft_real32x32	N=960, scaling=3	14025 (0.068 pts/cycle)	10384 (0.092 pts/cycle)
fft_real32x32	N=960, scaling=2	17160 (0.056 pts/cycle)	13828 (0.069 pts/cycle)
fft_real32x32	N=1152, scaling=3	14709 (0.078 pts/cycle)	10940 (0.105 pts/cycle)
fft_real32x32	N=1152, scaling=2	19605 (0.059 pts/cycle)	16300 (0.071 pts/cycle)
fft_real32x32	N=1440, scaling=3	20563 (0.070 pts/cycle)	15984 (0.090 pts/cycle)
fft_real32x32	N=1440, scaling=2	26492 (0.054 pts/cycle)	21188 (0.068 pts/cycle)
fft_real32x32	N=1536, scaling=3	19922 (0.077 pts/cycle)	13959 (0.110 pts/cycle)
fft_real32x32	N=1536, scaling=2	25493 (0.060 pts/cycle)	21613 (0.071 pts/cycle)
fft_real32x32	N=1920, scaling=3	26783 (0.072 pts/cycle)	19609 (0.098 pts/cycle)
fft_real32x32	N=1920, scaling=2	34563 (0.056 pts/cycle)	28142 (0.068 pts/cycle)
ifft_real32x32	N=12, scaling=3	344 (0.035 pts/cycle)	260 (0.046 pts/cycle)
ifft_real32x32	N=12, scaling=2	478 (0.025 pts/cycle)	385 (0.031 pts/cycle)
ifft_real32x32	N=24, scaling=3	416 (0.058 pts/cycle)	321 (0.075 pts/cycle)
ifft_real32x32	N=24, scaling=2	592 (0.041 pts/cycle)	486 (0.049 pts/cycle)
ifft_real32x32	N=30, scaling=3	547 (0.055 pts/cycle)	407 (0.074 pts/cycle)
ifft_real32x32	N=30, scaling=2	739 (0.041 pts/cycle)	590 (0.051 pts/cycle)
ifft_real32x32	N=36, scaling=3	673 (0.053 pts/cycle)	511 (0.070 pts/cycle)
ifft_real32x32	N=36, scaling=2	962 (0.037 pts/cycle)	793 (0.045 pts/cycle)
ifft_real32x32	N=48, scaling=3	625 (0.077 pts/cycle)	456 (0.105 pts/cycle)
ifft_real32x32	N=48, scaling=2	1002 (0.048 pts/cycle)	815 (0.059 pts/cycle)
ifft_real32x32	N=60, scaling=3	929 (0.065 pts/cycle)	724 (0.083 pts/cycle)
ifft_real32x32	N=60, scaling=2	1259 (0.048 pts/cycle)	987 (0.061 pts/cycle)
ifft_real32x32	N=72, scaling=3	984 (0.073 pts/cycle)	759 (0.095 pts/cycle)
ifft_real32x32	N=72, scaling=2	1353 (0.053 pts/cycle)	1085 (0.066 pts/cycle)
ifft_real32x32	N=90, scaling=3	1325 (0.068 pts/cycle)	1000 (0.090 pts/cycle)
ifft_real32x32	N=90, scaling=2	1738 (0.052 pts/cycle)	1360 (0.066 pts/cycle)
ifft_real32x32	N=96, scaling=3	1185 (0.081 pts/cycle)	869 (0.110 pts/cycle)
ifft_real32x32	N=96, scaling=2	1540 (0.062 pts/cycle)	1266 (0.076 pts/cycle)
ifft_real32x32	N=108, scaling=3	1548 (0.070 pts/cycle)	1269 (0.085 pts/cycle)
ifft_real32x32	N=108, scaling=2	2133 (0.051 pts/cycle)	1707 (0.063 pts/cycle)
ifft_real32x32	N=120, scaling=3	1557 (0.077 pts/cycle)	1182 (0.102 pts/cycle)
ifft_real32x32	N=120, scaling=2	2050 (0.059 pts/cycle)	1613 (0.074 pts/cycle)
ifft_real32x32	N=144, scaling=3	1938 (0.074 pts/cycle)	1532 (0.094 pts/cycle)
ifft_real32x32	N=144, scaling=2	2631 (0.055 pts/cycle)	2088 (0.069 pts/cycle)
ifft_real32x32	N=180, scaling=3	2531 (0.071 pts/cycle)	2038 (0.088 pts/cycle)
ifft_real32x32	N=180, scaling=2	3346 (0.054 pts/cycle)	2634 (0.068 pts/cycle)
ifft_real32x32	N=192, scaling=3	2450 (0.078 pts/cycle)	1770 (0.108 pts/cycle)
ifft_real32x32	N=192, scaling=2	3334 (0.058 pts/cycle)	2826 (0.068 pts/cycle)
ifft_real32x32	N=216, scaling=3	2755 (0.078 pts/cycle)	2222 (0.097 pts/cycle)
ifft_real32x32	N=216, scaling=2	3725 (0.058 pts/cycle)	2987 (0.072 pts/cycle)
ifft_real32x32	N=240, scaling=3	3345 (0.072 pts/cycle)	2525 (0.095 pts/cycle)
ifft_real32x32	N=240, scaling=2	4306 (0.056 pts/cycle)	3422 (0.070 pts/cycle)
ifft_real32x32	N=288, scaling=3	3454 (0.083 pts/cycle)	2626 (0.110 pts/cycle)
ifft_real32x32	N=288, scaling=2	4615 (0.062 pts/cycle)	3783 (0.076 pts/cycle)
ifft_real32x32	N=300, scaling=3	4629 (0.065 pts/cycle)	3432 (0.087 pts/cycle)
ifft_real32x32	N=300, scaling=2	6030 (0.050 pts/cycle)	4447 (0.067 pts/cycle)
ifft_real32x32	N=324, scaling=3	4505 (0.072 pts/cycle)	3825 (0.085 pts/cycle)
ifft_real32x32	N=324, scaling=2	6115 (0.053 pts/cycle)	4902 (0.066 pts/cycle)
ifft_real32x32	N=360, scaling=3	4803 (0.075 pts/cycle)	3809 (0.095 pts/cycle)
ifft_real32x32	N=360, scaling=2	6208 (0.058 pts/cycle)	4883 (0.074 pts/cycle)
ifft_real32x32	N=384, scaling=3	4450 (0.086 pts/cycle)	3155 (0.122 pts/cycle)
ifft_real32x32	N=384, scaling=2	5811 (0.066 pts/cycle)	4786 (0.080 pts/cycle)
ifft_real32x32	N=432, scaling=3	5976 (0.072 pts/cycle)	4925 (0.088 pts/cycle)
ifft_real32x32	N=432, scaling=2	7990 (0.054 pts/cycle)	6334 (0.068 pts/cycle)
ifft_real32x32	N=480, scaling=3	6250 (0.077 pts/cycle)	4369 (0.110 pts/cycle)
ifft_real32x32	N=480, scaling=2	7868 (0.061 pts/cycle)	6377 (0.075 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
ifft_real32x32	N=540, scaling=3	7911 (0.068 pts/cycle)	6616 (0.082 pts/cycle)
ifft_real32x32	N=540, scaling=2	10307 (0.052 pts/cycle)	8135 (0.066 pts/cycle)
ifft_real32x32	N=576, scaling=3	7803 (0.074 pts/cycle)	5858 (0.098 pts/cycle)
ifft_real32x32	N=576, scaling=2	10026 (0.057 pts/cycle)	8252 (0.070 pts/cycle)
ifft_real32x32	N=720, scaling=3	10086 (0.071 pts/cycle)	8020 (0.090 pts/cycle)
ifft_real32x32	N=720, scaling=2	13222 (0.054 pts/cycle)	10632 (0.068 pts/cycle)
ifft_real32x32	N=768, scaling=3	10187 (0.075 pts/cycle)	7182 (0.107 pts/cycle)
ifft_real32x32	N=768, scaling=2	13700 (0.056 pts/cycle)	11766 (0.065 pts/cycle)
ifft_real32x32	N=960, scaling=3	14039 (0.068 pts/cycle)	10385 (0.092 pts/cycle)
ifft_real32x32	N=960, scaling=2	17177 (0.056 pts/cycle)	13838 (0.069 pts/cycle)
ifft_real32x32	N=1152, scaling=3	14722 (0.078 pts/cycle)	10942 (0.105 pts/cycle)
ifft_real32x32	N=1152, scaling=2	19621 (0.059 pts/cycle)	16309 (0.071 pts/cycle)
ifft_real32x32	N=1440, scaling=3	20577 (0.070 pts/cycle)	15986 (0.090 pts/cycle)
ifft_real32x32	N=1440, scaling=2	26509 (0.054 pts/cycle)	21197 (0.068 pts/cycle)
ifft_real32x32	N=1536, scaling=3	19935 (0.077 pts/cycle)	13961 (0.110 pts/cycle)
ifft_real32x32	N=1536, scaling=2	25509 (0.060 pts/cycle)	21621 (0.071 pts/cycle)
ifft_real32x32	N=1920, scaling=3	26797 (0.072 pts/cycle)	19612 (0.098 pts/cycle)
ifft_real32x32	N=1920, scaling=2	34580 (0.056 pts/cycle)	28150 (0.068 pts/cycle)
Complex FFT with Optimized Memory			
fft_cplx32x16_ie	N=256	3129 (0.082 pts/cycle)	2795 (0.092 pts/cycle)
fft_cplx32x16_ie	N=512	7589 (0.067 pts/cycle)	6661 (0.077 pts/cycle)
fft_cplx32x16_ie	N=1024	14893 (0.069 pts/cycle)	13516 (0.076 pts/cycle)
fft_cplx24x24_ie	N=256	3112 (0.082 pts/cycle)	2787 (0.092 pts/cycle)
fft_cplx24x24_ie	N=512	7567 (0.068 pts/cycle)	6654 (0.077 pts/cycle)
fft_cplx24x24_ie	N=1024	14871 (0.069 pts/cycle)	13506 (0.076 pts/cycle)
fft_cplx16x16_ie	N=128	2253 (0.057 pts/cycle)	1001 (0.128 pts/cycle)
fft_cplx16x16_ie	N=256	4111 (0.062 pts/cycle)	1654 (0.155 pts/cycle)
fft_cplx16x16_ie	N=512	8951 (0.057 pts/cycle)	3421 (0.150 pts/cycle)
fft_cplx16x16_ie	N=1024	17663 (0.058 pts/cycle)	6440 (0.159 pts/cycle)
fft_cplx32x32_ie	N=128	2435 (0.053 pts/cycle)	1677 (0.076 pts/cycle)
fft_cplx32x32_ie	N=128	2889 (0.044 pts/cycle)	2387 (0.054 pts/cycle)
fft_cplx32x32_ie	N=256	4259 (0.060 pts/cycle)	2923 (0.088 pts/cycle)
fft_cplx32x32_ie	N=256	5460 (0.047 pts/cycle)	4538 (0.056 pts/cycle)
fft_cplx32x32_ie	N=512	11128 (0.046 pts/cycle)	7523 (0.068 pts/cycle)
fft_cplx32x32_ie	N=512	13333 (0.038 pts/cycle)	11174 (0.046 pts/cycle)
fft_cplx32x32_ie	N=1024	20429 (0.050 pts/cycle)	13749 (0.074 pts/cycle)
fft_cplx32x32_ie	N=1024	26272 (0.039 pts/cycle)	22062 (0.046 pts/cycle)
ifft_cplx32x16_ie	N=256	3705 (0.069 pts/cycle)	3152 (0.081 pts/cycle)
ifft_cplx32x16_ie	N=512	8677 (0.059 pts/cycle)	7308 (0.070 pts/cycle)
ifft_cplx32x16_ie	N=1024	17005 (0.060 pts/cycle)	14736 (0.069 pts/cycle)
ifft_cplx24x24_ie	N=256	3688 (0.069 pts/cycle)	3145 (0.081 pts/cycle)
ifft_cplx24x24_ie	N=512	8655 (0.059 pts/cycle)	7299 (0.070 pts/cycle)
ifft_cplx24x24_ie	N=1024	16983 (0.060 pts/cycle)	14728 (0.070 pts/cycle)
ifft_cplx16x16_ie	N=128	2252 (0.057 pts/cycle)	987 (0.130 pts/cycle)
ifft_cplx16x16_ie	N=256	4109 (0.062 pts/cycle)	1703 (0.150 pts/cycle)
ifft_cplx16x16_ie	N=512	8952 (0.057 pts/cycle)	3412 (0.150 pts/cycle)
ifft_cplx16x16_ie	N=1024	17657 (0.058 pts/cycle)	6679 (0.153 pts/cycle)
ifft_cplx32x32_ie	N=128	2442 (0.052 pts/cycle)	1677 (0.076 pts/cycle)
ifft_cplx32x32_ie	N=128	2898 (0.044 pts/cycle)	2389 (0.054 pts/cycle)
ifft_cplx32x32_ie	N=256	4266 (0.060 pts/cycle)	2923 (0.088 pts/cycle)
ifft_cplx32x32_ie	N=256	5469 (0.047 pts/cycle)	4540 (0.056 pts/cycle)
ifft_cplx32x32_ie	N=512	11135 (0.046 pts/cycle)	7523 (0.068 pts/cycle)
ifft_cplx32x32_ie	N=512	13342 (0.038 pts/cycle)	11176 (0.046 pts/cycle)
ifft_cplx32x32_ie	N=1024	20437 (0.050 pts/cycle)	13749 (0.074 pts/cycle)
ifft_cplx32x32_ie	N=1024	26281 (0.039 pts/cycle)	22063 (0.046 pts/cycle)
fft_cplxf_ie	N=8	122 (0.066 pts/cycle)	109 (0.073 pts/cycle)
fft_cplxf_ie	N=16	170 (0.094 pts/cycle)	149 (0.107 pts/cycle)
fft_cplxf_ie	N=32	497 (0.064 pts/cycle)	456 (0.070 pts/cycle)
fft_cplxf_ie	N=64	793 (0.081 pts/cycle)	765 (0.084 pts/cycle)
fft_cplxf_ie	N=128	2296 (0.056 pts/cycle)	2178 (0.059 pts/cycle)
fft_cplxf_ie	N=256	3916 (0.065 pts/cycle)	3882 (0.066 pts/cycle)
fft_cplxf_ie	N=512	10779 (0.047 pts/cycle)	10367 (0.049 pts/cycle)
fft_cplxf_ie	N=1024	19039 (0.054 pts/cycle)	18999 (0.054 pts/cycle)
fft_cplxf_ie	N=2048	50030 (0.041 pts/cycle)	48459 (0.042 pts/cycle)
fft_cplxf_ie	N=4096	90226 (0.045 pts/cycle)	90180 (0.045 pts/cycle)
ifft_cplxf_ie	N=8	128 (0.063 pts/cycle)	111 (0.072 pts/cycle)
ifft_cplxf_ie	N=16	181 (0.088 pts/cycle)	158 (0.101 pts/cycle)
ifft_cplxf_ie	N=32	503 (0.064 pts/cycle)	468 (0.068 pts/cycle)
ifft_cplxf_ie	N=64	828 (0.077 pts/cycle)	798 (0.080 pts/cycle)
ifft_cplxf_ie	N=128	2302 (0.056 pts/cycle)	2238 (0.057 pts/cycle)
ifft_cplxf_ie	N=256	4047 (0.063 pts/cycle)	4011 (0.064 pts/cycle)
ifft_cplxf_ie	N=512	10785 (0.047 pts/cycle)	10619 (0.048 pts/cycle)
ifft_cplxf_ie	N=1024	19554 (0.052 pts/cycle)	19512 (0.052 pts/cycle)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
ifft_cplxf_ie	N=2048	50036 (0.041 pts/cycle)	49479 (0.041 pts/cycle)
ifft_cplxf_ie	N=4096	92277 (0.044 pts/cycle)	92228 (0.044 pts/cycle)
Real FFT with Optimized Memory			
fft_real32x16_ie	N=256	2274 (0.113 pts/cycle)	2010 (0.127 pts/cycle)
fft_real32x16_ie	N=512	4234 (0.121 pts/cycle)	3888 (0.132 pts/cycle)
fft_real32x16_ie	N=1024	9719 (0.105 pts/cycle)	8780 (0.117 pts/cycle)
fft_real32x16_ie_24p	N=256	3005 (0.085 pts/cycle)	2674 (0.096 pts/cycle)
fft_real32x16_ie_24p	N=512	5605 (0.091 pts/cycle)	5130 (0.100 pts/cycle)
fft_real32x16_ie_24p	N=1024	12368 (0.083 pts/cycle)	11171 (0.092 pts/cycle)
fft_real24x24_ie	N=256	2223 (0.115 pts/cycle)	1977 (0.129 pts/cycle)
fft_real24x24_ie	N=512	4151 (0.123 pts/cycle)	3823 (0.134 pts/cycle)
fft_real24x24_ie	N=1024	9567 (0.107 pts/cycle)	8648 (0.118 pts/cycle)
fft_real24x24_ie_24p	N=256	3127 (0.082 pts/cycle)	2912 (0.088 pts/cycle)
fft_real24x24_ie_24p	N=512	5884 (0.087 pts/cycle)	5621 (0.091 pts/cycle)
fft_real24x24_ie_24p	N=1024	13229 (0.077 pts/cycle)	12567 (0.081 pts/cycle)
fft_real16x16_ie	N=256	2951 (0.087 pts/cycle)	1346 (0.190 pts/cycle)
fft_real16x16_ie	N=512	5417 (0.095 pts/cycle)	2255 (0.227 pts/cycle)
fft_real16x16_ie	N=1024	11479 (0.089 pts/cycle)	4538 (0.226 pts/cycle)
fft_real32x32_ie	N=256	3143 (0.081 pts/cycle)	2246 (0.114 pts/cycle)
fft_real32x32_ie	N=256	3888 (0.066 pts/cycle)	3240 (0.079 pts/cycle)
fft_real32x32_ie	N=512	5575 (0.092 pts/cycle)	3972 (0.129 pts/cycle)
fft_real32x32_ie	N=512	7323 (0.070 pts/cycle)	6128 (0.084 pts/cycle)
fft_real32x32_ie	N=1024	13660 (0.075 pts/cycle)	9533 (0.107 pts/cycle)
fft_real32x32_ie	N=1024	16924 (0.061 pts/cycle)	14235 (0.072 pts/cycle)
ifft_real32x16_ie	N=256	2717 (0.094 pts/cycle)	2352 (0.109 pts/cycle)
ifft_real32x16_ie	N=512	5061 (0.101 pts/cycle)	4502 (0.114 pts/cycle)
ifft_real32x16_ie	N=1024	11314 (0.091 pts/cycle)	9936 (0.103 pts/cycle)
ifft_real32x16_ie_24p	N=256	3451 (0.074 pts/cycle)	3017 (0.085 pts/cycle)
ifft_real32x16_ie_24p	N=512	6434 (0.080 pts/cycle)	5744 (0.089 pts/cycle)
ifft_real32x16_ie_24p	N=1024	13966 (0.073 pts/cycle)	12330 (0.083 pts/cycle)
ifft_real24x24_ie	N=256	2676 (0.096 pts/cycle)	2316 (0.111 pts/cycle)
ifft_real24x24_ie	N=512	4988 (0.103 pts/cycle)	4435 (0.115 pts/cycle)
ifft_real24x24_ie	N=1024	11171 (0.092 pts/cycle)	9804 (0.104 pts/cycle)
ifft_real24x24_ie_24p	N=256	3580 (0.072 pts/cycle)	3252 (0.079 pts/cycle)
ifft_real24x24_ie_24p	N=512	6753 (0.076 pts/cycle)	6264 (0.082 pts/cycle)
ifft_real24x24_ie_24p	N=1024	14929 (0.069 pts/cycle)	13820 (0.074 pts/cycle)
ifft_real16x16_ie	N=256	3339 (0.077 pts/cycle)	1694 (0.151 pts/cycle)
ifft_real16x16_ie	N=512	6152 (0.083 pts/cycle)	2987 (0.171 pts/cycle)
ifft_real16x16_ie	N=1024	12918 (0.079 pts/cycle)	5845 (0.175 pts/cycle)
ifft_real32x32_ie	N=256	3153 (0.081 pts/cycle)	2245 (0.114 pts/cycle)
ifft_real32x32_ie	N=256	3904 (0.066 pts/cycle)	3245 (0.079 pts/cycle)
ifft_real32x32_ie	N=512	5586 (0.092 pts/cycle)	3971 (0.129 pts/cycle)
ifft_real32x32_ie	N=512	7339 (0.070 pts/cycle)	6132 (0.083 pts/cycle)
ifft_real32x32_ie	N=1024	13671 (0.075 pts/cycle)	9530 (0.107 pts/cycle)
ifft_real32x32_ie	N=1024	16939 (0.060 pts/cycle)	14242 (0.072 pts/cycle)
fft_realf_ie	N=8	81 (0.099 pts/cycle)	74 (0.108 pts/cycle)
fft_realf_ie	N=16	206 (0.078 pts/cycle)	183 (0.087 pts/cycle)
fft_realf_ie	N=32	294 (0.109 pts/cycle)	264 (0.121 pts/cycle)
fft_realf_ie	N=64	690 (0.093 pts/cycle)	642 (0.100 pts/cycle)
fft_realf_ie	N=128	1122 (0.114 pts/cycle)	1085 (0.118 pts/cycle)
fft_realf_ie	N=256	2897 (0.088 pts/cycle)	2769 (0.092 pts/cycle)
fft_realf_ie	N=512	5061 (0.101 pts/cycle)	5018 (0.102 pts/cycle)
fft_realf_ie	N=1024	13012 (0.079 pts/cycle)	12590 (0.081 pts/cycle)
fft_realf_ie	N=2048	23448 (0.087 pts/cycle)	23400 (0.088 pts/cycle)
fft_realf_ie	N=4096	58792 (0.070 pts/cycle)	57213 (0.072 pts/cycle)
ifft_realf_ie	N=8	85 (0.094 pts/cycle)	78 (0.103 pts/cycle)
ifft_realf_ie	N=16	217 (0.074 pts/cycle)	189 (0.085 pts/cycle)
ifft_realf_ie	N=32	311 (0.103 pts/cycle)	275 (0.116 pts/cycle)
ifft_realf_ie	N=64	702 (0.091 pts/cycle)	654 (0.098 pts/cycle)
ifft_realf_ie	N=128	1163 (0.110 pts/cycle)	1120 (0.114 pts/cycle)
ifft_realf_ie	N=256	2909 (0.088 pts/cycle)	2832 (0.090 pts/cycle)
ifft_realf_ie	N=512	5198 (0.098 pts/cycle)	5149 (0.099 pts/cycle)
ifft_realf_ie	N=1024	13024 (0.079 pts/cycle)	12844 (0.080 pts/cycle)
ifft_realf_ie	N=2048	23969 (0.085 pts/cycle)	23916 (0.086 pts/cycle)
ifft_realf_ie	N=4096	58802 (0.070 pts/cycle)	58232 (0.070 pts/cycle)
DCT			
dct_24x24	N=32, scalingOpt=3	239 (cycles)	200 (cycles)
dct_24x24	N=64, scalingOpt=3	548 (cycles)	468 (cycles)
dct_32x16	N=32, scalingOpt=3	232 (cycles)	200 (cycles)
dct_32x16	N=64, scalingOpt=3	498 (cycles)	417 (cycles)
dct_32x32	N=32, scalingOpt=3	332 (cycles)	238 (cycles)
dct_32x32	N=64, scalingOpt=3	610 (cycles)	427 (cycles)
dct_16x16	N=32, scalingOpt=3	291 (cycles)	213 (cycles)
dct_16x16	N=64, scalingOpt=3	526 (cycles)	399 (cycles)

Function name	Invocation parameters	Cycles Measurements	
		RG2017.7, HiFi3 with VFPU	RG2017.7, HiFi3z with VFPU
dct4_32x16	N=32, scalingOpt=3	325 (cycles)	297 (cycles)
dct4_32x16	N=64, scalingOpt=3	742 (cycles)	645 (cycles)
dct4_32x16	N=128, scalingOpt=3	1554 (cycles)	1310 (cycles)
dct4_32x16	N=256, scalingOpt=3	2748 (cycles)	2331 (cycles)
dct4_32x16	N=512, scalingOpt=3	6245 (cycles)	5250 (cycles)
dct4_32x32	N=32, scalingOpt=3	386 (cycles)	349 (cycles)
dct4_32x32	N=64, scalingOpt=3	858 (cycles)	741 (cycles)
dct4_32x32	N=128, scalingOpt=3	1817 (cycles)	1577 (cycles)
dct4_32x32	N=256, scalingOpt=3	3237 (cycles)	2839 (cycles)
dct4_32x32	N=512, scalingOpt=3	7405 (cycles)	6525 (cycles)
dct4_24x24	N=32, scalingOpt=3	331 (cycles)	294 (cycles)
dct4_24x24	N=64, scalingOpt=3	750 (cycles)	636 (cycles)
dct4_24x24	N=128, scalingOpt=3	1570 (cycles)	1289 (cycles)
dct4_24x24	N=256, scalingOpt=3	2796 (cycles)	2302 (cycles)
dct4_24x24	N=512, scalingOpt=3	6325 (cycles)	5157 (cycles)
mdct_32x16	N=32, scalingOpt=3	432 (cycles)	399 (cycles)
mdct_32x16	N=64, scalingOpt=3	898 (cycles)	795 (cycles)
mdct_32x16	N=128, scalingOpt=3	1806 (cycles)	1556 (cycles)
mdct_32x16	N=256, scalingOpt=3	3191 (cycles)	2768 (cycles)
mdct_32x16	N=512, scalingOpt=3	7074 (cycles)	6072 (cycles)
mdct_32x32	N=32, scalingOpt=3	498 (cycles)	453 (cycles)
mdct_32x32	N=64, scalingOpt=3	1019 (cycles)	892 (cycles)
mdct_32x32	N=128, scalingOpt=3	2074 (cycles)	1824 (cycles)
mdct_32x32	N=256, scalingOpt=3	3685 (cycles)	3277 (cycles)
mdct_32x32	N=512, scalingOpt=3	8239 (cycles)	7348 (cycles)
mdct_24x24	N=32, scalingOpt=3	444 (cycles)	393 (cycles)
mdct_24x24	N=64, scalingOpt=3	911 (cycles)	775 (cycles)
mdct_24x24	N=128, scalingOpt=3	1827 (cycles)	1508 (cycles)
mdct_24x24	N=256, scalingOpt=3	3244 (cycles)	2680 (cycles)
mdct_24x24	N=512, scalingOpt=3	7159 (cycles)	5856 (cycles)
imdct_32x16	N=32, scalingOpt=3	436 (cycles)	399 (cycles)
imdct_32x16	N=64, scalingOpt=3	901 (cycles)	789 (cycles)
imdct_32x16	N=128, scalingOpt=3	1809 (cycles)	1542 (cycles)
imdct_32x16	N=256, scalingOpt=3	3194 (cycles)	2738 (cycles)
imdct_32x16	N=512, scalingOpt=3	7077 (cycles)	6010 (cycles)
imdct_32x32	N=32, scalingOpt=3	498 (cycles)	452 (cycles)
imdct_32x32	N=64, scalingOpt=3	1018 (cycles)	886 (cycles)
imdct_32x32	N=128, scalingOpt=3	2073 (cycles)	1810 (cycles)
imdct_32x32	N=256, scalingOpt=3	3684 (cycles)	3247 (cycles)
imdct_32x32	N=512, scalingOpt=3	8238 (cycles)	7286 (cycles)
imdct_24x24	N=32, scalingOpt=3	442 (cycles)	395 (cycles)
imdct_24x24	N=64, scalingOpt=3	909 (cycles)	781 (cycles)
imdct_24x24	N=128, scalingOpt=3	1824 (cycles)	1522 (cycles)
imdct_24x24	N=256, scalingOpt=3	3243 (cycles)	2710 (cycles)
imdct_24x24	N=512, scalingOpt=3	7156 (cycles)	5918 (cycles)
dct2d_8x16	N=8, L=1, scalingOpt=0	328 (328.0 cycles/block)	283 (283.0 cycles/block)
dct2d_8x16	N=8, L=32, scalingOpt=0	9318 (291.2 cycles/block)	8374 (261.7 cycles/block)
dct2d_8x16	N=8, L=1024, scalingOpt=0	296998 (290.0 cycles/block)	267286 (261.0 cycles/block)
idct2d_16x8	N=8, L=1, scalingOpt=0	381 (381.0 cycles/block)	307 (307.0 cycles/block)
idct2d_16x8	N=8, L=32, scalingOpt=0	10920 (341.3 cycles/block)	9080 (283.8 cycles/block)
idct2d_16x8	N=8, L=1024, scalingOpt=0	348200 (340.0 cycles/block)	289816 (283.0 cycles/block)
dctf	N=32	365 (cycles)	316 (cycles)
dctf	N=64	827 (cycles)	740 (cycles)

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.

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.

Below, we presented data for RG2017.7 HiFi3z core with VFPU

Object file	Code size	Data size	Symbols	
			Global	Referenced
scl_complex2invmag_hifi3.o	158		scl_complex2invmag	
scl_complex2mag_hifi3.o	243		scl_complex2mag	
vec_complex2invmag_hifi3.o	907		vec_complex2invmag	
vec_complex2mag_hifi3.o	762		vec_complex2mag	
dct_16x16_cffts_hifi3.o	1733	24	fft16_16x16, fft32_16x16	
dct_16x16_hifi3.o	607		dct_16x16	fft16_16x16, fft32_16x16
dct_24x24_cffts_hifi3.o	2574		fft32_24x24, NatureDSP_Signal_018	
dct_24x24_hifi3.o	492		dct_24x24	fft32_24x24, NatureDSP_Signal_018
dct_32x16_cffts_hifi3.o	2063	24	fft32_32x16, NatureDSP_Signal_016	
dct_32x16_hifi3.o	602		dct_32x16	fft32_32x16, NatureDSP_Signal_016
dct_32x32_cffts_hifi3.o	1444	32	fft16_32x32, fft32_32x32	
dct_32x32_hifi3.o	580		dct_32x32	fft16_32x32, fft32_32x32
dct4_24x24_hifi3.o	4320		dct4_24x24	
dct4_32x16_hifi3.o	4392		dct4_32x16	
dct4_32x32_hifi3.o	4761		dct4_32x32	
dct2d_8x16_hifi3.o	969	52	dct2d_16_8, dct2d_8x16	
dctf_hifi3.o	778	4	dctf	fft_cplxf_ie
dct_16_32.o		168	dct2_16_32	
dct_16_64.o		312	dct2_16_64	
dct_32_32.o		320	dct2_32_32	
dct_32_64.o		792	dct2_32_64	
fft_cplx16x16_hifi3.o	3970		fft_cplx16x16	
fft_cplx24x24_hifi3.o	8730		fft_cplx24x24	
fft_cplx32x16_hifi3.o, fft_cplx32x16_hifi3z.o	3270	24	fft_cplx32x16	
fft_cplx_stages_S3_32x32_hifi3.o	6657	32	NatureDSP_Signal_361, NatureDSP_Signal_362, NatureDSP_Signal_363, NatureDSP_Signal_364, NatureDSP_Signal_365, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_370, NatureDSP_Signal_371, NatureDSP_Signal_372, NatureDSP_Signal_373, NatureDSP_Signal_374, NatureDSP_Signal_375, NatureDSP_Signal_376, NatureDSP_Signal_377, NatureDSP_Signal_378, NatureDSP_Signal_379, NatureDSP_Signal_380, NatureDSP_Signal_381	__divsi3
fft_cplx_stages_S2_32x32_hifi3.o	8349	32	NatureDSP_Signal_341, NatureDSP_Signal_342, NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_345, NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_350, NatureDSP_Signal_351, NatureDSP_Signal_352, NatureDSP_Signal_353, NatureDSP_Signal_354, NatureDSP_Signal_355, NatureDSP_Signal_356, NatureDSP_Signal_357, NatureDSP_Signal_358, NatureDSP_Signal_359, NatureDSP_Signal_360, NatureDSP_Signal_415	__divsi3
fft_cplx32x32_hifi3.o	233		fft_cplx32x32	vec_bexp32
fft_cplx32x32_ie_hifi3.o	270		fft_cplx32x32_ie	NatureDSP_Signal_341, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_363, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, vec_bexp32
fft_real16x16_hifi3.o	557		fft_real16x16	fft_cplx16x16, NatureDSP_Signal_002
fft_real24x24_hifi3.o	446		fft_real24x24	fft_cplx24x24, NatureDSP_Signal_001, vec_bexp24
fft_real32x16_hifi3.o	295		fft_real32x16	fft_cplx32x16, NatureDSP_Signal_002
fft_real32x32_hifi3.o	575		fft_real32x32	fft_cplx32x32, vec_bexp32
ifft_cplx24x24_hifi3.o	8678		ifft_cplx24x24	
ifft_cplx32x16_hifi3.o	1764		ifft_cplx32x16	__divsi3, NatureDSP_Signal_188

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			Global	Referenced
ifft_cplx16x16_hifi3.o	2891		ifft_cplx16x16	vec_bexp16
ifft_cplx32x32_hifi3.o	233		ifft_cplx32x32	vec_bexp32
ifft_real16x16_hifi3.o	976		ifft_real16x16	ifft_cplx16x16, NatureDSP_Signal_002, vec_bexp16
ifft_real24x24_hifi3.o	963		ifft_real24x24	ifft_cplx24x24, NatureDSP_Signal_001, vec_bexp24, vec_bexp32
ifft_real32x16_hifi3.o	541		ifft_real32x16	ifft_cplx32x16, NatureDSP_Signal_002
ifft_real32x32_hifi3.o	583		ifft_real32x32	ifft_cplx32x32, vec_bexp32
fft_cplx24x24_ie_hifi3.o	484		fft_cplx24x24_ie	NatureDSP_Signal_188
fft_cplx24x24_s1_ie_hifi3.o	1071		NatureDSP_Signal_201	
fft_cplx32x16_ie_hifi3.o	582		fft_cplx32x16_ie	NatureDSP_Signal_188
fft_cplx16x16_ie_hifi3.o	1760		fft_cplx16x16_ie	NatureDSP_Signal_340
fft_cplx32x32_ie_hifi3.o	270		fft_cplx32x32_ie	NatureDSP_Signal_341, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_363, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, vec_bexp32
fft_pack24_ie_hifi3.o	200		NatureDSP_Signal_190, NatureDSP_Signal_191	
fft_real24x24_ie_24p_hifi3.o	543		fft_real24x24_ie_24p	NatureDSP_Signal_190, NatureDSP_Signal_200, NatureDSP_Signal_201
fft_real24x24_ie_hifi3.o	514		fft_real24x24_ie	fft_cplx24x24_ie
fft_real32x16_ie_24p_hifi3.o	58		fft_real32x16_ie_24p	fft_real32x16_ie, NatureDSP_Signal_190, NatureDSP_Signal_191
fft_real32x16_ie_hifi3.o	461		fft_real32x16_ie	fft_cplx32x16_ie
fft_real16x16_ie_hifi3.o	493		fft_real16x16_ie	fft_cplx16x16_ie
fft_real32x32_ie_hifi3.o	582		fft_real32x32_ie	fft_cplx32x32_ie, vec_bexp32
fft_revorder_ie_hifi3.o	295		NatureDSP_Signal_189	
fft_stage_last_ie_hifi3.o	477		NatureDSP_Signal_188	
fft_unpack24to32_s1_ie_hifi3.o	101		NatureDSP_Signal_200	
fft_stage_inner_DFT4_16x16_ie_hifi3.o	835		NatureDSP_Signal_340	divsi3
ifft_cplx24x24_ie_hifi3.o	39		ifft_cplx24x24_ie	fft_cplx24x24_ie, NatureDSP_Signal_189
ifft_cplx32x16_ie_hifi3.o	39		ifft_cplx32x16_ie	fft_cplx32x16_ie, NatureDSP_Signal_189
ifft_cplx32x32_ie_hifi3.o	270		ifft_cplx32x32_ie	NatureDSP_Signal_341, NatureDSP_Signal_347, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_363, NatureDSP_Signal_367, NatureDSP_Signal_369, NatureDSP_Signal_379, vec_bexp32
ifft_real24x24_ie_24p_hifi3.o	588		ifft_real24x24_ie_24p	NatureDSP_Signal_189, NatureDSP_Signal_190, NatureDSP_Signal_200, NatureDSP_Signal_201
ifft_cplx16x16_ie_hifi3.o	1593		ifft_cplx16x16_ie	NatureDSP_Signal_340
ifft_real24x24_ie_hifi3.o	631		ifft_real24x24_ie	ifft_cplx24x24_ie
ifft_real32x16_ie_24p_hifi3.o	58		ifft_real32x16_ie_24p	ifft_real32x16_ie, NatureDSP_Signal_190, NatureDSP_Signal_191
ifft_real32x16_ie_hifi3.o	442		ifft_real32x16_ie	ifft_cplx32x16_ie
ifft_real16x16_ie_hifi3.o	587		ifft_real16x16_ie	ifft_cplx16x16_ie, vec_bexp16
ifft_real32x32_ie_hifi3.o	573		ifft_real32x32_ie	ifft_cplx32x32_ie, vec_bexp32
fft_cplxf_ie_hifi3.o	1427		fft_cplxf_ie	
fft_realf_ie_hifi3.o	769		fft_realf_ie	fft_cplxf_ie
ifft_cplxf_ie_hifi3.o	1456		ifft_cplxf_ie	
ifft_realf_ie_hifi3.o	760		ifft_realf_ie	ifft_cplxf_ie
idct2d_16x8_hifi3.o	842	52	idct2d_16_8, idct2d_16x8	
imdct_24x24_hifi3.o	149		imdct_24x24	dct4_24x24

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			Global	Referenced
imdct_32x16_hifi3.o	149		imdct_32x16	dct4_32x16
imdct_32x32_hifi3.o	149		imdct_32x32	dct4_32x32
mdct_24x24_hifi3.o	263		mdct_24x24	dct4_24x24
mdct_32x16_hifi3.o	159		mdct_32x16	dct4_32x16
mdct_32x32_hifi3.o	159		mdct_32x32	dct4_32x32
bkfir16x16_hifi3.o	814		bkfir16x16_alloc, bkfir16x16_init, bkfir16x16_process	
bkfir24x24_hifi3.o	909		bkfir24x24_alloc, bkfir24x24_init, bkfir24x24_process	
bkfir24x24p_hifi3.o	1032		bkfir24x24p_alloc, bkfir24x24p_init, bkfir24x24p_process	
bkfir32x16_hifi3.o	954		bkfir32x16_alloc, bkfir32x16_init, bkfir32x16_process	
bkfir32x32_hifi3.o	521		bkfir32x32_alloc, bkfir32x32_init, bkfir32x32_process	
bkfira16x16_hifi3.o	1030		bkfira16x16_alloc, bkfira16x16_init, bkfira16x16_process	
bkfira24x24_hifi3.o	1176		bkfira24x24_alloc, bkfira24x24_init, bkfira24x24_process	
bkfira32x16_hifi3.o	1210		bkfira32x16_alloc, bkfira32x16_init, bkfira32x16_process	
bkfira32x32_hifi3.o	1176		bkfira32x32_alloc, bkfira32x32_init, bkfira32x32_process	
cxfir16x16_hifi3.o	902		cxfir16x16_alloc, cxfir16x16_init, cxfir16x16_process	
cxfir24x24_hifi3.o	621		cxfir24x24_alloc, cxfir24x24_init, cxfir24x24_process	
cxfir32x16_hifi3.o	616		cxfir32x16_alloc, cxfir32x16_init, cxfir32x16_process	
cxfir32x32_hifi3.o	510		cxfir32x32_alloc, cxfir32x32_init, cxfir32x32_process	
bkfiraf_hifi3.o	165		bkfiraf_alloc, bkfiraf_init	
bkfiraf_process_hifi3.o	534		bkfiraf_process	
bkfirf_hifi3.o	117		bkfirf_alloc, bkfirf_init	
bkfirf_process_hifi3.o	747		bkfirf_process	
cxfirf_hifi3.o	122		cxfirf_alloc, cxfirf_init	
cxfirf_process_hifi3.o	374		cxfirf_process	
firdec16x16_D2_hifi3.o	316		NatureDSP_Signal_400	
firdec16x16_D3_hifi3.o	304		NatureDSP_Signal_401	
firdec16x16_D4_hifi3.o	367		NatureDSP_Signal_402	
firdec16x16_DX_hifi3.o	280		NatureDSP_Signal_403	
firdec16x16_hifi3.o	496		firdec16x16_alloc, firdec16x16_init, firdec16x16_process	NatureDSP_Signal_400, NatureDSP_Signal_401, NatureDSP_Signal_402, NatureDSP_Signal_403
firdec24x24_hifi3.o	5430		firdec24x24_alloc, firdec24x24_init, firdec24x24_process	__divsi3
firdec32x16_hifi3.o	5016		firdec32x16_alloc, firdec32x16_init, firdec32x16_process	__divsi3
firdec32x32_D2_hifi3.o	277		NatureDSP_Signal_396	
firdec32x32_D3_hifi3.o	333		NatureDSP_Signal_397	
firdec32x32_D4_hifi3.o	253		NatureDSP_Signal_398	
firdec32x32_DX_hifi3.o	365		NatureDSP_Signal_399	
firdec32x32_hifi3.o	488		firdec32x32_alloc, firdec32x32_init, firdec32x32_process	NatureDSP_Signal_396, NatureDSP_Signal_397, NatureDSP_Signal_398, NatureDSP_Signal_399
fir_decimaf_2x_hifi3.o	395		NatureDSP_Signal_214	
fir_decimaf_3x_hifi3.o	588		NatureDSP_Signal_215	
fir_decimaf_4x_hifi3.o	417		NatureDSP_Signal_216	
fir_decimaf_Dx_hifi3.o	340		NatureDSP_Signal_217	
firdecf_hifi3.o	339	12	firdecf_alloc, firdecf_init, firdecf_process	NatureDSP_Signal_214, NatureDSP_Signal_215, NatureDSP_Signal_216, NatureDSP_Signal_217
firinterp16x16_D2_hifi3.o	388		NatureDSP_Signal_392	
firinterp16x16_D3_hifi3.o	674		NatureDSP_Signal_393	
firinterp16x16_D4_hifi3.o	482		NatureDSP_Signal_394	
firinterp16x16_DX_hifi3.o	520		NatureDSP_Signal_395	
firinterp16x16_hifi3.o	478		firinterp16x16_alloc, firinterp16x16_init, firinterp16x16_process	NatureDSP_Signal_392, NatureDSP_Signal_393, NatureDSP_Signal_394, NatureDSP_Signal_395
firinterp24x24_hifi3.o	4037		firinterp24x24_alloc, firinterp24x24_init, firinterp24x24_process	
firinterp32x16_hifi3.o	3972		firinterp32x16_alloc, firinterp32x16_init,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			firinterp32x16_process	
firinterp32x32_D2_hifi3.o	421		NatureDSP_Signal_388	
firinterp32x32_D3_hifi3.o	428		NatureDSP_Signal_389	
firinterp32x32_D4_hifi3.o	417		NatureDSP_Signal_390	
firinterp32x32_DX_hifi3.o	416		NatureDSP_Signal_391	
firinterp32x32_hifi3.o	469		firinterp32x32_alloc, firinterp32x32_init, firinterp32x32_process	NatureDSP_Signal_388, NatureDSP_Signal_389, NatureDSP_Signal_390, NatureDSP_Signal_391
fir_interpf_2x_hifi3.o	521		NatureDSP_Signal_218	
fir_interpf_3x_hifi3.o	330		NatureDSP_Signal_219	
fir_interpf_4x_hifi3.o	373		NatureDSP_Signal_220	
fir_interpf_Dx_hifi3.o	735		NatureDSP_Signal_221	
firinterpf_hifi3.o	453	12	firinterpf_alloc, firinterpf_init, firinterpf_process	NatureDSP_Signal_218, NatureDSP_Signal_219, NatureDSP_Signal_220, NatureDSP_Signal_221
cxfir_convol32x16_hifi3.o	274		cxfir_convol32x16	
cxfir_convola32x16_hifi3.o	904		cxfir_convola32x16	
fir_acorr16x16_hifi3.o	24		fir_acorr16x16	fir_xcorr16x16
fir_acorr24x24_hifi3.o	458		fir_acorr24x24	
fir_acorr32x32_hifi3.o	354		fir_acorr32x32	
fir_acorra16x16_hifi3.o	305		fir_acorra16x16	NatureDSP_Signal_382
fir_acorra24x24_hifi3.o	956		fir_acorra24x24	
fir_acorra32x32_hifi3.o	824		fir_acorra32x32	
fir_blms16x16_hifi3.o	1014		fir_blms16x16	
fir_blms16x32_hifi3.o	1683		fir_blms16x32	
fir_blms24x24_hifi3.o	1121		fir_blms24x24	
fir_blms32x32_hifi3.o	842		fir_blms32x32	
fir_convol16x16_hifi3.o	562		fir_convol16x16	
fir_convol24x24_hifi3.o	474		fir_convol24x24	
fir_convol32x16_hifi3.o	490		fir_convol32x16	
fir_convol32x32_hifi3.o	362		fir_convol32x32	
fir_convola16x16_hifi3.o	309		fir_convola16x16	NatureDSP_Signal_382
fir_convola24x24_hifi3.o	1060		fir_convola24x24	
fir_convola32x16_hifi3.o	1060		fir_convola32x16	
fir_convola32x32_hifi3.o	349		fir_convola32x32	NatureDSP_Signal_383
fir_lacorra16x16_hifi3.o	1498		fir_lacorra16x16	
fir_lacorra32x32_hifi3.o	1024		fir_lacorra32x32	
fir_lconvola16x16_hifi3.o	237		fir_lconvola16x16	NatureDSP_Signal_384
fir_lconvola32x32_hifi3.o	237		fir_lconvola32x32	NatureDSP_Signal_385
fir_lxcorra16x16_hifi3.o	230		fir_lxcorra16x16	NatureDSP_Signal_384
fir_lxcorra32x32_hifi3.o	216		fir_lxcorra32x32	NatureDSP_Signal_385
fir_xcorr16x16_hifi3.o	546		fir_xcorr16x16	
fir_xcorr24x24_hifi3.o	458		fir_xcorr24x24	
fir_xcorr32x16_hifi3.o	450		fir_xcorr32x16	
fir_xcorr32x32_hifi3.o	346		fir_xcorr32x32	
fir_xcorra16x16_hifi3.o	301		fir_xcorra16x16	NatureDSP_Signal_382
fir_xcorra24x24_hifi3.o	1052		fir_xcorra24x24	
fir_xcorra32x16_hifi3.o	1060		fir_xcorra32x16	
fir_xcorra32x32_hifi3.o	307		fir_xcorra32x32	NatureDSP_Signal_383
raw_corr16x16_hifi3.o	988		NatureDSP_Signal_382	
raw_corr32x32_hifi3.o	608		NatureDSP_Signal_383	
raw_lxcorr16x16_hifi3.o	2365		NatureDSP_Signal_384	
raw_lxcorr32x32_hifi3.o	1713		NatureDSP_Signal_385	
cxfir_xcorraf_hifi3.o	462		cxfir_xcorraf	
cxfir_xcorrf_hifi3.o	255		cxfir_xcorrf	
fir_acorraf_hifi3.o	26		fir_acorraf	fir_xcorraf
fir_acorrf_hifi3.o	24		fir_acorrf	fir_xcorrf
fir_blmsf_hifi3.o	1012		fir_blmsf	
fir_convolaf_hifi3.o	297		fir_convolaf	NatureDSP_Signal_256
fir_convolf_hifi3.o	263		fir_convolf	
fir_xcorraf_hifi3.o	294		fir_xcorraf	NatureDSP_Signal_256
fir_xcorrf_hifi3.o	264		fir_xcorrf	
raw_corrf_hifi3.o	875		NatureDSP_Signal_256	
vec_poly4_24x24_hifi3.o	564		vec_poly4_24x24	
vec_poly4_32x32_hifi3.o	474		vec_poly4_32x32	
vec_poly8_24x24_hifi3.o	687		vec_poly8_24x24	
vec_poly8_32x32_hifi3.o	660		vec_poly8_32x32	
vec_poly4f_hifi3.o	502		vec_poly4f	
vec_poly8f_hifi3.o	960		vec_poly8f	
bqriir16x16_df1_hifi3.o	1200		bqriir16x16_df1, bqriir16x16_df1_alloc, bqriir16x16_df1_init	
bqriir16x16_df2_hifi3.o	1019		bqriir16x16_df2, bqriir16x16_df2_alloc,	

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			Global	Referenced
			bqriir16x16_df2_init	
bqriir24x24_df1_hifi3.o	1084		bqriir24x24_df1, bqriir24x24_df1_alloc, bqriir24x24_df1_init	
bqriir24x24_df2_hifi3.o	1421		bqriir24x24_df2, bqriir24x24_df2_alloc, bqriir24x24_df2_init	
bqriir32x16_df1_hifi3.o	921		bqriir32x16_df1, bqriir32x16_df1_alloc, bqriir32x16_df1_init	
bqriir32x16_df2_hifi3.o	1181		bqriir32x16_df2, bqriir32x16_df2_alloc, bqriir32x16_df2_init	
bqriir32x32_df1_hifi3.o	989		bqriir32x32_df1, bqriir32x32_df1_alloc, bqriir32x32_df1_init	
bqriir32x32_df2_hifi3.o	1311		bqriir32x32_df2, bqriir32x32_df2_alloc, bqriir32x32_df2_init	
latr16x16_hifi3.o	4984	36	latr16x16_alloc, latr16x16_init, latr16x16_process	
latr24x24_hifi3.o	3485		latr24x24_alloc, latr24x24_init, latr24x24_process	
latr32x16_hifi3.o	4570		latr32x16_alloc, latr32x16_init, latr32x16_process	
latr32x32_hifi3.o	3756	36	latr32x32_alloc, latr32x32_init, latr32x32_process	
bqciirf_df1_hifi3.o	176		bqciirf_df1_alloc, bqciirf_df1_init	
bqciirf_df1_process_hifi3.o	731		bqciirf_df1	
bqriirf_df1_hifi3.o	248		bqriirf_df1_alloc, bqriirf_df1_init	
bqriirf_df1_process_hifi3.o	1742		bqriirf_df1	
bqriirf_df2_hifi3.o	237		bqriirf_df2_alloc, bqriirf_df2_init	
bqriirf_df2_process_hifi3.o	1190		bqriirf_df2	
bqriirf_df2t_hifi3.o	237		bqriirf_df2t_alloc, bqriirf_df2t_init	
bqriirf_df2t_process_hifi3.o	1374		bqriirf_df2t	
latrf_hifi3.o	180	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_hifi3.o	254		NatureDSP_Signal_224	
latrf2_hifi3.o	200		NatureDSP_Signal_225	
latrf3_hifi3.o	251		NatureDSP_Signal_226	
latrf4_hifi3.o	440		NatureDSP_Signal_227	
latrf5_hifi3.o	518		NatureDSP_Signal_228	
latrf6_hifi3.o	417		NatureDSP_Signal_229	
latrf7_hifi3.o	1066		NatureDSP_Signal_230	
latrf8_hifi3.o	845		NatureDSP_Signal_231	
latrfX_hifi3.o	978		NatureDSP_Signal_232	
scl_alog10_24x24_hifi3.o	118		scl_antilog10_24x24	NatureDSP_Signal_202
scl_alog10_32x32_hifi3.o	108		scl_antilog10_32x32	NatureDSP_Signal_202
scl_alog2_24x24_hifi3.o	99		scl_antilog2_24x24	NatureDSP_Signal_202
scl_alog2_32x32_hifi3.o	96		scl_antilog2_32x32	NatureDSP_Signal_202
scl_alogn_24x24_hifi3.o	118		scl_antilogn_24x24	NatureDSP_Signal_202
scl_alogn_32x32_hifi3.o	108		scl_antilogn_32x32	NatureDSP_Signal_202
scl_atan_24x24_hifi3.o	83		scl_atan24x24	NatureDSP_Signal_013
scl_atan_32x32_hifi3.o	148		scl_atan32x32	NatureDSP_Signal_012
scl_atan2_24x24_hifi3.o	337		scl_atan2_24x24	NatureDSP_Signal_387
scl_cosine_24x24_hifi3.o	110		scl_cosine24x24	NatureDSP_Signal_009
scl_cosine_32x32_hifi3.o	110		scl_cosine32x32	NatureDSP_Signal_009
scl_divide16x16_hifi3.o	190		scl_divide16x16	
scl_divide24x24_hifi3.o	19		scl_divide24x24	scl_divide32x32
scl_divide32x32_hifi3.o	135		scl_divide32x32	
scl_log10_24x24_hifi3.o	135		scl_log10_24x24	NatureDSP_Signal_011
scl_log10_32x32_hifi3.o	132		scl_log10_32x32	NatureDSP_Signal_011
scl_log2_24x24_hifi3.o	126		scl_log2_24x24	NatureDSP_Signal_011
scl_log2_32x32_hifi3.o	121		scl_log2_32x32	NatureDSP_Signal_011
scl_logn_24x24_hifi3.o	135		scl_logn_24x24	NatureDSP_Signal_011
scl_logn_32x32_hifi3.o	132		scl_logn_32x32	NatureDSP_Signal_011
scl_recip16x16_hifi3.o	207		scl_recip16x16	
scl_recip24x24_hifi3.o	19		scl_recip24x24	scl_recip32x32
scl_recip32x32_hifi3.o	140		scl_recip32x32	
scl_rsqrt_16x16_hifi3.o	183		scl_rsqrt16x16	
scl_rsqrt_32x32_hifi3.o	227		scl_rsqrt32x32	
scl_sigmoid_32x32_hifi3.o	185	20	scl_sigmoid32x32	
scl_sine_24x24_hifi3.o	110		scl_sine24x24	NatureDSP_Signal_009
scl_sine_32x32_hifi3.o	110		scl_sine32x32	NatureDSP_Signal_009

Object file	Code size	Data size	Symbols	
			Global	Referenced
scl_sqrt_16x16_hifi3.o	142		scl_sqrt16x16	NatureDSP_Signal_386
scl_sqrt_24x24_hifi3.o	115		scl_sqrt24x24	NatureDSP_Signal_010
scl_sqrt_32x32_hifi3.o	117		scl_sqrt32x32	NatureDSP_Signal_010
scl_sqrt_64x32_hifi3.o	147		scl_sqrt64x32	NatureDSP_Signal_010
scl_tan_24x24_hifi3.o	269		scl_tan24x24	NatureDSP_Signal_008, NatureDSP_Signal_009
scl_tan_32x32_hifi3.o	258		scl_tan32x32	NatureDSP_Signal_008, NatureDSP_Signal_009
scl_tanh_32x32_hifi3.o	179	20	scl_tanh32x32	
vec_alog10_24x24_hifi3.o	455		vec_antilog10_24x24	NatureDSP_Signal_202
vec_alog10_32x32_hifi3.o	455		vec_antilog10_32x32	NatureDSP_Signal_202
vec_alog2_24x24_hifi3.o	388		vec_antilog2_24x24	NatureDSP_Signal_202
vec_alog2_32x32_hifi3.o	388		vec_antilog2_32x32	NatureDSP_Signal_202
vec_alogn_24x24_hifi3.o	455		vec_antilogn_24x24	NatureDSP_Signal_202
vec_alogn_32x32_hifi3.o	455		vec_antilogn_32x32	NatureDSP_Signal_202
vec_atan_24x24_hifi3.o	527		vec_atan24x24	NatureDSP_Signal_013
vec_atan_32x32_hifi3.o	824		vec_atan32x32	NatureDSP_Signal_012
vec_atan2_24x24_hifi3.o	749		vec_atan2_24x24	NatureDSP_Signal_387
vec_cosine_24x24_fast_hifi3.o	317		vec_cosine24x24_fast	NatureDSP_Signal_009
vec_cosine_24x24_hifi3.o	403		vec_cosine24x24	NatureDSP_Signal_009
vec_cosine_32x32_fast_hifi3.o	330		vec_cosine32x32_fast	NatureDSP_Signal_009
vec_cosine_32x32_hifi3.o	435		vec_cosine32x32	NatureDSP_Signal_009
vec_divide16x16_fast_hifi3.o	541	8	vec_divide16x16_fast	
vec_divide16x16_hifi3.o	939	8	vec_divide16x16	
vec_divide24x24_fast_hifi3.o	359		vec_divide24x24_fast	
vec_divide24x24_hifi3.o	550	8	vec_divide24x24	
vec_divide32x32_fast_hifi3.o	690		vec_divide32x32_fast	
vec_divide32x32_hifi3.o	1152	8	vec_divide32x32	
vec_log10_24x24_hifi3.o	494		vec_log10_24x24	NatureDSP_Signal_011
vec_log10_32x32_hifi3.o	494		vec_log10_32x32	NatureDSP_Signal_011
vec_log2_24x24_hifi3.o	235		vec_log2_24x24	NatureDSP_Signal_011
vec_log2_32x32_hifi3.o	235		vec_log2_32x32	NatureDSP_Signal_011
vec_logn_24x24_hifi3.o	494		vec_logn_24x24	NatureDSP_Signal_011
vec_logn_32x32_hifi3.o	494		vec_logn_32x32	NatureDSP_Signal_011
vec_recip16x16_hifi3.o	1202	8	vec_recip16x16	
vec_recip24x24_hifi3.o	810	8	vec_recip24x24	
vec_recip32x32_hifi3.o	895	8	vec_recip32x32	
vec_rsqrt_16x16_hifi3.o	1316		vec_rsqrt16x16	
vec_rsqrt_32x32_hifi3.o	1419		vec_rsqrt32x32	
vec_sigmoid_32x32_hifi3.o	850	20	vec_sigmoid32x32	
vec_sine_24x24_fast_hifi3.o	303		vec_sine24x24_fast	NatureDSP_Signal_009
vec_sine_24x24_hifi3.o	408		vec_sine24x24	NatureDSP_Signal_009
vec_sine_32x32_fast_hifi3.o	408		vec_sine32x32_fast	NatureDSP_Signal_009
vec_sine_32x32_hifi3.o	427		vec_sine32x32	NatureDSP_Signal_009
vec_softmax_32x32_hifi3.o	880	20	vec_softmax32x32	
vec_sqrt_16x16_hifi3.o	927		vec_sqrt16x16	NatureDSP_Signal_386
vec_sqrt_24x24_fast_hifi3.o	432		vec_sqrt24x24_fast	NatureDSP_Signal_010
vec_sqrt_24x24_hifi3.o	721		vec_sqrt24x24	NatureDSP_Signal_010
vec_sqrt_32x32_fast_hifi3.o	427		vec_sqrt32x32_fast	NatureDSP_Signal_010
vec_sqrt_32x32_hifi3.o	573		vec_sqrt32x32	NatureDSP_Signal_010
vec_sqrt_64x32_hifi3.o	618		vec_sqrt64x32	NatureDSP_Signal_010
vec_tan_24x24_hifi3.o	838		vec_tan24x24	NatureDSP_Signal_008, NatureDSP_Signal_009
vec_tan_32x32_hifi3.o	822		vec_tan32x32	NatureDSP_Signal_008, NatureDSP_Signal_009
vec_tanh_32x32_hifi3.o	815	20	vec_tanh32x32	
scl_antilog10f_hifi3.o	343		scl_antilog10f	_reent_ptr, NatureDSP_Signal_206, NatureDSP_Signal_207, NatureDSP_Signal_212, NatureDSP_Signal_241, NatureDSP_Signal_244
scl_antilog2f_hifi3.o	327		scl_antilog2f	_reent_ptr, NatureDSP_Signal_208, NatureDSP_Signal_212, NatureDSP_Signal_241, NatureDSP_Signal_244
scl_antilognf_hifi3.o	324		scl_antilognf	_reent_ptr, NatureDSP_Signal_212, NatureDSP_Signal_213, NatureDSP_Signal_241, NatureDSP_Signal_244
scl_atan2f_hifi3.o	304		scl_atan2f	_reent_ptr, NatureDSP_Signal_209, NatureDSP_Signal_210,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246, NatureDSP_Signal_249
scl_atanf_hifi3.o	202		scl_atanf	_reent_ptr, NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246
scl_cosinef_hifi3.o	261	24	scl_cosinef	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_268
scl_float2int_hifi3.o	28		scl_float2int	
scl_int2float_hifi3.o	22		scl_int2float	
scl_log10f_hifi3.o	517		scl_log10f	_reent_ptr, NatureDSP_Signal_203, NatureDSP_Signal_205, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
scl_log2f_hifi3.o	508		scl_log2f	_reent_ptr, NatureDSP_Signal_234, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
scl_lognf_hifi3.o	509		scl_lognf	_reent_ptr, NatureDSP_Signal_233, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258, NatureDSP_Signal_260
scl_sinef_hifi3.o	261	24	scl_sinef	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_268
scl_tanf_hifi3.o	337	24	scl_tanf	_reent_ptr, NatureDSP_Signal_223, NatureDSP_Signal_241, NatureDSP_Signal_254, NatureDSP_Signal_255
vec_alog10f_hifi3.o	776		vec_antilog10f	NatureDSP_Signal_206, NatureDSP_Signal_207, NatureDSP_Signal_212, NatureDSP_Signal_241
vec_alog2f_hifi3.o	782		vec_antilog2f	NatureDSP_Signal_208, NatureDSP_Signal_212, NatureDSP_Signal_241
vec_alognf_hifi3.o	690		vec_antilognf	NatureDSP_Signal_212, NatureDSP_Signal_213, NatureDSP_Signal_241
vec_atan2f_hifi3.o	1746	8	vec_atan2f	NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246, NatureDSP_Signal_249
vec_atanf_hifi3.o	1851		vec_atanf	NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_244, NatureDSP_Signal_246
vec_cosinef_hifi3.o	1746	28	vec_cosinef	NatureDSP_Signal_223, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253
vec_float2int_hifi3.o	235		vec_float2int	
vec_int2float_hifi3.o	331		vec_int2float	
vec_log10f_hifi3.o	1642		vec_log10f	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
vec_log2f_hifi3.o	1600		vec_log2f	NatureDSP_Signal_234, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
vec_lognf_hifi3.o	1453		vec_lognf	NatureDSP_Signal_233, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258, NatureDSP_Signal_260
vec_sinef_hifi3.o	1440	28	vec_sinef	NatureDSP_Signal_223, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253
vec_tanf_hifi3.o	2115	24	vec_tanf	NatureDSP_Signal_223, NatureDSP_Signal_241, NatureDSP_Signal_254, NatureDSP_Signal_255
mtx_inv2x2f_hifi3.o	83		mtx_inv2x2f	
mtx_inv3x3f_hifi3.o	448		mtx_inv3x3f	
mtx_inv4x4f_hifi3.o	614		mtx_inv4x4f	
mtx_mpy16x16_fast_hifi3.o	990		mtx_mpy16x16_fast	
mtx_mpy16x16_hifi3.o	2862		mtx_mpy16x16	
mtx_mpy24x24_fast_hifi3.o	502		mtx_mpy24x24_fast	
mtx_mpy24x24_hifi3.o	1278		mtx_mpy24x24	
mtx_mpy32x32_fast_hifi3.o	446		mtx_mpy32x32_fast	
mtx_mpy32x32_hifi3.o	1214		mtx_mpy32x32	
mtx_vecmpy16x16_fast_hifi3.o	209		mtx_vecmpy16x16_fast	
mtx_vecmpy16x16_hifi3.o	687		mtx_vecmpy16x16	
mtx_vecmpy24x24_fast_hifi3.o	302		mtx_vecmpy24x24_fast	
mtx_vecmpy24x24_hifi3.o	540		mtx_vecmpy24x24	
mtx_vecmpy32x32_fast_hifi3.o	593		mtx_vecmpy32x32_fast	
mtx_vecmpy32x32_hifi3.o	623		mtx_vecmpy32x32	
mtx_mpyf_fast_hifi3.o	373		mtx_mpyf_fast	
mtx_mpyf_hifi3.o	1344		mtx_mpyf	
mtx_vecmpyf_fast_hifi3.o	330		mtx_vecmpyf_fast	
mtx_vecmpyf_hifi3.o	792		mtx_vecmpyf	
scl_bexp16_hifi3.o	48		scl_bexp16	
scl_bexp24_hifi3.o	47		scl_bexp24	
scl_bexp32_hifi3.o	34		scl_bexp32	
vec_add16x16_fast_hifi3.o	114		vec_add16x16_fast	
vec_add16x16_hifi3.o	205		vec_add16x16	
vec_add24x24_fast_hifi3.o	112		vec_add24x24_fast	
vec_add24x24_hifi3.o	152		vec_add24x24	
vec_add32x32_fast_hifi3.o	112		vec_add32x32_fast	
vec_add32x32_hifi3.o	152		vec_add32x32	
vec_bexp16_fast_hifi3.o	68		vec_bexp16_fast	
vec_bexp16_hifi3.o	170		vec_bexp16	
vec_bexp24_fast_hifi3.o	55		vec_bexp24_fast	
vec_bexp24_hifi3.o	207		vec_bexp24	
vec_bexp32_fast_hifi3.o	57		vec_bexp32_fast	
vec_bexp32_hifi3.o	191		vec_bexp32	
vec_dot16x16_fast_hifi3.o	124		vec_dot16x16_fast	
vec_dot16x16_hifi3.o	197		vec_dot16x16	
vec_dot24x24_fast_hifi3.o	114		vec_dot24x24_fast	
vec_dot24x24_hifi3.o	160		vec_dot24x24	
vec_dot32x16_fast_hifi3.o	53		vec_dot32x16_fast	
vec_dot32x16_hifi3.o	261		vec_dot32x16	
vec_dot32x32_fast_hifi3.o	119		vec_dot32x32_fast	
vec_dot32x32_hifi3.o	175		vec_dot32x32	
vec_max_16x16_fast_hifi3.o	114		vec_max16x16_fast	
vec_max_16x16_hifi3.o	212		vec_max16x16	
vec_max_24x24_fast_hifi3.o	108		vec_max24x24_fast	
vec_max_24x24_hifi3.o	135		vec_max24x24	
vec_max_32x32_fast_hifi3.o	84		vec_max32x32_fast	
vec_max_32x32_hifi3.o	122		vec_max32x32	
vec_min_16x16_fast_hifi3.o	114		vec_min16x16_fast	
vec_min_16x16_hifi3.o	212		vec_min16x16	
vec_min_24x24_fast_hifi3.o	108		vec_min24x24_fast	

Object file	Code size	Data size	Symbols	
			Global	Referenced
vec_min_24x24_hifi3.o	135		vec_min24x24	
vec_min_32x32_fast_hifi3.o	92		vec_min32x32_fast	
vec_min_32x32_hifi3.o	122		vec_min32x32	
vec_power16x16_fast_hifi3.o	71		vec_power16x16_fast	
vec_power16x16_hifi3.o	173		vec_power16x16	
vec_power24x24_fast_hifi3.o	53		vec_power24x24_fast	
vec_power24x24_hifi3.o	159		vec_power24x24	
vec_power32x32_fast_hifi3.o	81		vec_power32x32_fast	
vec_power32x32_hifi3.o	169		vec_power32x32	
vec_scale16x16_fast_hifi3.o	108		vec_scale16x16_fast	
vec_scale16x16_hifi3.o	236		vec_scale16x16	
vec_scale24x24_fast_hifi3.o	132		vec_scale24x24_fast	
vec_scale24x24_hifi3.o	217		vec_scale24x24	
vec_scale32x24_fast_hifi3.o	116		vec_scale32x24_fast	
vec_scale32x24_hifi3.o	189		vec_scale32x24	
vec_scale32x32_fast_hifi3.o	108		vec_scale32x32_fast	
vec_scale32x32_hifi3.o	183		vec_scale32x32	
vec_shift16x16_fast_hifi3.o	228		vec_shift16x16_fast	
vec_shift16x16_hifi3.o	379		vec_shift16x16	
vec_shift24x24_fast_hifi3.o	91		vec_shift24x24_fast	
vec_shift24x24_hifi3.o	170		vec_shift24x24	
vec_shift32x32_fast_hifi3.o	91		vec_shift32x32_fast	
vec_shift32x32_hifi3.o	168		vec_shift32x32	
scl_bexpf_hifi3.o	85		scl_bexpf	
vec_addf_hifi3.o	238		vec_addf	
vec_bexpf_hifi3.o	172		vec_bexpf	
vec_dotf_hifi3.o	183		vec_dotf	
vec_maxf_hifi3.o	138	4	vec_maxf	
vec_minf_hifi3.o	146	4	vec_minf	
vec_powerf_hifi3.o	191		vec_powerf	
vec_scale_sf_hifi3.o	275		vec_scale_sf	
vec_scalef_hifi3.o	187		vec_scalef	
vec_shiftf_hifi3.o	263		vec_shiftf	
alog10f_tbl.o		12	NatureDSP_Signal_206, NatureDSP_Signal_207	
alog2f_tbl.o		8	NatureDSP_Signal_208	
atanf_tbl.o		64	NatureDSP_Signal_209, NatureDSP_Signal_210	
expf_tbl.o		44	NatureDSP_Signal_211, NatureDSP_Signal_212, NatureDSP_Signal_213	
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_268	
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	
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	
polyrsqrtq23_tbl.o		20	NatureDSP_Signal_386	
scl_atan_table.o		524	NatureDSP_Signal_012	
scl_atan_table16.o		136	NatureDSP_Signal_013	
scl_atan2_24x24_table.o		32	NatureDSP_Signal_387	
scl_sine_table16.o		1028	NatureDSP_Signal_257	
scl_sine_table32.o		2056	NatureDSP_Signal_009	
scl_sqrt_table.o		1024	NatureDSP_Signal_010	
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	
tanf_tbl.o		36	NatureDSP_Signal_254, NatureDSP_Signal_255	
vec_alog_table.o		20	NatureDSP_Signal_202	
vec_log_table.o		1024	NatureDSP_Signal_011	
vec_recip_table.o		516	NatureDSP_Signal_008	
dct4_16_128.o		568	dct4_16_128, mdct_16_128	
dct4_16_256.o		1112	dct4_16_256, mdct_16_256	
dct4_16_32.o		160	dct4_16_32, mdct_16_32	
dct4_16_512.o		2200	dct4_16_512, mdct_16_512	
dct4_16_64.o		296	dct4_16_64, mdct_16_64	
dct4_32_128.o		1108	dct4_32_128, mdct_32_128	
dct4_32_256.o		2196	dct4_32_256, mdct_32_256	
dct4_32_32.o		292	dct4_32_32, mdct_32_32	
dct4_32_512.o		4372	dct4_32_512, mdct_32_512	

Object file	Code size	Data size	Symbols	
			Global	Referenced
dct4_32_64.o		564	dct4_32_64, mdct_32_64	
dctf_32_twd.o		376	dct2_f_32	
dctf_64_twd.o		728	dct2_f_64	
fft_cplx_inc1024_hifi3.o		384	NatureDSP_Signal_104	
fft_cplx_inc128_hifi3.o		16	NatureDSP_Signal_101	
fft_cplx_inc2048_hifi3.o		768	NatureDSP_Signal_105	
fft_cplx_inc256_hifi3.o		64	NatureDSP_Signal_102	
fft_cplx_inc4096_hifi3.o		2048	NatureDSP_Signal_106	
fft_cplx_inc512_hifi3.o		128	NatureDSP_Signal_103	
fft_cplx_inc64_hifi3.o		8	NatureDSP_Signal_100	
fft_cplx_twd1024_24x24_hifi3.o		6164	cfft24_1024, NatureDSP_Signal_135, rfft24_2048	NatureDSP_Signal_104
fft_cplx_twd1024_hifi3.o		3116	cfft16_1024, cifft16_1024, NatureDSP_Signal_410, rfft16_2048, rifft16_2048	NatureDSP_Signal_104, NatureDSP_Signal_405, NatureDSP_Signal_407, NatureDSP_Signal_408
fft_cplx_twd128_24x24_hifi3.o		788	cfft24_128, NatureDSP_Signal_132, rfft24_256	NatureDSP_Signal_101
fft_cplx_twd128_hifi3.o		424	cfft16_128, cifft16_128, NatureDSP_Signal_339, rfft16_256, rifft16_256	NatureDSP_Signal_101, NatureDSP_Signal_404, NatureDSP_Signal_406
fft_cplx_twd16_24x24_hifi3.o		116	cfft24_16, NatureDSP_Signal_129, rfft24_32	
fft_cplx_twd16_hifi3.o		84	cfft16_16, cifft16_16, NatureDSP_Signal_405, rfft16_32, rifft16_32	
fft_cplx_twd2048_24x24_hifi3.o		12308	cfft24_2048, NatureDSP_Signal_136, rfft24_4096	NatureDSP_Signal_105
fft_cplx_twd2048_hifi3.o		6192	cfft16_2048, cifft16_2048, NatureDSP_Signal_411, rfft16_4096, rifft16_4096	NatureDSP_Signal_105, NatureDSP_Signal_339, NatureDSP_Signal_404, NatureDSP_Signal_406, NatureDSP_Signal_419
fft_cplx_twd256_24x24_hifi3.o		1556	cfft24_256, NatureDSP_Signal_133, rfft24_512	NatureDSP_Signal_102
fft_cplx_twd256_hifi3.o		808	cfft16_256, cifft16_256, NatureDSP_Signal_408, rfft16_512, rifft16_512	NatureDSP_Signal_102, NatureDSP_Signal_405, NatureDSP_Signal_407
fft_cplx_twd32_24x24_hifi3.o		212	cfft24_32, NatureDSP_Signal_130, rfft24_64	
fft_cplx_twd32_hifi3.o		156	cfft16_32, cifft16_32, NatureDSP_Signal_404, NatureDSP_Signal_406, rfft16_64, rifft16_64	
fft_cplx_twd4096_24x24_hifi3.o		24596	cfft24_4096, NatureDSP_Signal_137, rfft24_8192	NatureDSP_Signal_106
fft_cplx_twd4096_hifi3.o		12336	cfft16_4096, cifft16_4096, NatureDSP_Signal_412, rfft16_8192, rifft16_8192	NatureDSP_Signal_106, NatureDSP_Signal_405, NatureDSP_Signal_407, NatureDSP_Signal_408, NatureDSP_Signal_410
fft_cplx_twd512_24x24_hifi3.o		3092	cfft24_512, NatureDSP_Signal_134, rfft24_1024	NatureDSP_Signal_103
fft_cplx_twd512_hifi3.o		1580	cfft16_512, cifft16_512, NatureDSP_Signal_419, rfft16_1024, rifft16_1024	NatureDSP_Signal_103, NatureDSP_Signal_339, NatureDSP_Signal_404, NatureDSP_Signal_406
fft_cplx_twd64_24x24_hifi3.o		404	cfft24_64, NatureDSP_Signal_131, rfft24_128	NatureDSP_Signal_100
fft_cplx_twd64_hifi3.o		228	cfft16_64, cifft16_64, NatureDSP_Signal_407, rfft16_128, rifft16_128	NatureDSP_Signal_405
fft_cplx_twiddles_24x24.o	371	249478	NatureDSP_Signal_004	
fft_real_twd1024_32x32_tbl.o		2072	rfft32_1024, rifft32_1024	NatureDSP_Signal_278, NatureDSP_Signal_311
fft_real_twd30_32x32_tbl.o		272	rinfft32_30, rnfft32_30	NatureDSP_Signal_345, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_real_twd90_32x32_tbl.o		656	rinfft32_90, rnfft32_90	NatureDSP_Signal_344, NatureDSP_Signal_345, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_364, NatureDSP_Signal_365, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_real_twd384_32x32_tbl.o		792	rinfft32_384, rnfft32_384	NatureDSP_Signal_293, NatureDSP_Signal_326
fft_real_twd720_32x32_tbl.o		1464	rinfft32_720, rnfft32_720	NatureDSP_Signal_299, NatureDSP_Signal_332
fft_real_twd1152_32x32_tbl.o		2328	rinfft32_1152, rnfft32_1152	NatureDSP_Signal_303,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_336
fft_real_twd1440_32x32_tbl.o		8800	rinfft32_1440, rnfft32_1440	NatureDSP_Signal_344, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_real_twd1536_32x32_tbl.o		3096	rinfft32_1536, rnfft32_1536	NatureDSP_Signal_304, NatureDSP_Signal_337
fft_real_twd1920_32x32_tbl.o		3864	rinfft32_1920, rnfft32_1920	NatureDSP_Signal_305, NatureDSP_Signal_338
fft_real_twd108_32x32_tbl.o		800	rinfft32_108, rnfft32_108	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_375
fft_real_twd12_32x32_tbl.o		184	rinfft32_12, rnfft32_12	NatureDSP_Signal_341, NatureDSP_Signal_345, NatureDSP_Signal_356, NatureDSP_Signal_363, NatureDSP_Signal_365, NatureDSP_Signal_377
fft_real_twd120_32x32_tbl.o		264	rinfft32_120, rnfft32_120	NatureDSP_Signal_286, NatureDSP_Signal_319
fft_real_twd128_32x32_tbl.o		280	rfft32_128, rifft32_128	NatureDSP_Signal_275, NatureDSP_Signal_308
fft_real_twd144_32x32_tbl.o		312	rinfft32_144, rnfft32_144	NatureDSP_Signal_287, NatureDSP_Signal_320
fft_real_twd180_32x32_tbl.o		1216	rinfft32_180, rnfft32_180	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd192_32x32_tbl.o		408	rinfft32_192, rnfft32_192	NatureDSP_Signal_288, NatureDSP_Signal_321
fft_real_twd2048_32x32_tbl.o		4120	rfft32_2048, rifft32_2048	NatureDSP_Signal_279, NatureDSP_Signal_312
fft_real_twd216_32x32_tbl.o		456	rinfft32_216, rnfft32_216	NatureDSP_Signal_289, NatureDSP_Signal_322
fft_real_twd24_32x32_tbl.o		72	rinfft32_24, rnfft32_24	NatureDSP_Signal_282, NatureDSP_Signal_315
fft_real_twd240_32x32_tbl.o		504	rinfft32_240, rnfft32_240	NatureDSP_Signal_290, NatureDSP_Signal_323
fft_real_twd256_32x32_tbl.o		536	rfft32_256, rifft32_256	NatureDSP_Signal_276, NatureDSP_Signal_309
fft_real_twd288_32x32_tbl.o		600	rinfft32_288, rnfft32_288	NatureDSP_Signal_291, NatureDSP_Signal_324
fft_real_twd300_32x32_tbl.o		1936	rinfft32_300, rnfft32_300	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd32_32x32_tbl.o		88	rfft32_32, rifft32_32	NatureDSP_Signal_273, NatureDSP_Signal_306
fft_real_twd324_32x32_tbl.o		2120	rinfft32_324, rnfft32_324	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_375

Object file	Code size	Data size	Symbols	
			Global	Referenced
fft_real_twd36_32x32_tbl.o		344	rinfft32_36, rnfft32_36	NatureDSP_Signal_342, NatureDSP_Signal_345, NatureDSP_Signal_346, NatureDSP_Signal_356, NatureDSP_Signal_361, NatureDSP_Signal_365, NatureDSP_Signal_366, NatureDSP_Signal_377
fft_real_twd360_32x32_tbl.o		744	rinfft32_360, rnfft32_360	NatureDSP_Signal_292, NatureDSP_Signal_325
fft_real_twd4096_32x32_tbl.o		8216	rfft32_4096, rifft32_4096	NatureDSP_Signal_280, NatureDSP_Signal_313
fft_real_twd432_32x32_tbl.o		888	rinfft32_432, rnfft32_432	NatureDSP_Signal_294, NatureDSP_Signal_327
fft_real_twd48_32x32_tbl.o		120	rinfft32_48, rnfft32_48	NatureDSP_Signal_283, NatureDSP_Signal_316
fft_real_twd480_32x32_tbl.o		984	rinfft32_480, rnfft32_480	NatureDSP_Signal_295, NatureDSP_Signal_328
fft_real_twd512_32x32_tbl.o		1048	rfft32_512, rifft32_512	NatureDSP_Signal_277, NatureDSP_Signal_310
fft_real_twd540_32x32_tbl.o		3400	rinfft32_540, rnfft32_540	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd576_32x32_tbl.o		1176	rinfft32_576, rnfft32_576	NatureDSP_Signal_296, NatureDSP_Signal_329
fft_real_twd60_32x32_tbl.o		472	rinfft32_60, rnfft32_60	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd64_32x32_tbl.o		152	rfft32_64, rifft32_64	NatureDSP_Signal_274, NatureDSP_Signal_307
fft_real_twd72_32x32_tbl.o		168	rinfft32_72, rnfft32_72	NatureDSP_Signal_284, NatureDSP_Signal_317
fft_real_twd768_32x32_tbl.o		4784	rinfft32_768, rnfft32_768	NatureDSP_Signal_342, NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_real_twd8192_32x32_tbl.o		16408	rfft32_8192, rifft32_8192	NatureDSP_Signal_281, NatureDSP_Signal_314
fft_real_twd96_32x32_tbl.o		216	rinfft32_96, rnfft32_96	NatureDSP_Signal_285, NatureDSP_Signal_318
fft_real_twd960_32x32_tbl.o		1944	rinfft32_960, rnfft32_960	NatureDSP_Signal_301, NatureDSP_Signal_334
fft_real_twiddles.o		8192	NatureDSP_Signal_002	
fft_real_twiddles_24x24.o		16384	NatureDSP_Signal_001	
fft_real_twd90_32x32_tbl.o		656	rinfft32_90, rnfft32_90	NatureDSP_Signal_344, NatureDSP_Signal_345, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_364, NatureDSP_Signal_365, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_real_twd30_32x32_tbl.o		272	rinfft32_30, rnfft32_30	NatureDSP_Signal_345, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_real_twd1920_32x32_tbl.o		3864	rinfft32_1920, rnfft32_1920	NatureDSP_Signal_305, NatureDSP_Signal_338
fft_real_twd1536_32x32_tbl.o		3096	rinfft32_1536, rnfft32_1536	NatureDSP_Signal_304,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_337
fft_real_twd1440_32x32_tbl.o		8800	rinfft32_1440, rnfft32_1440	NatureDSP_Signal_344, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_real_twd1152_32x32_tbl.o		2328	rinfft32_1152, rnfft32_1152	NatureDSP_Signal_303, NatureDSP_Signal_336
fft_real_twd720_32x32_tbl.o		1464	rinfft32_720, rnfft32_720	NatureDSP_Signal_299, NatureDSP_Signal_332
fft_real_twd384_32x32_tbl.o		792	rinfft32_384, rnfft32_384	NatureDSP_Signal_293, NatureDSP_Signal_326
fft_twd80_32x32_tbl.o		736	cinfft32_80, cnfft32_80	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd100_32x32_tbl.o		896	cinfft32_100, cnfft32_100	NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd160_32x32_tbl.o		1352	cinfft32_160, cnfft32_160	NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_415
fft_twd200_32x32_tbl.o		1720	cinfft32_200, cnfft32_200	NatureDSP_Signal_342, NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd384_32x32_tbl.o		3168	cinfft32_384, cnfft32_384	NatureDSP_Signal_344, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_415
fft_twd400_32x32_tbl.o		3320	cinfft32_400, cnfft32_400	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd600_32x32_tbl.o		4896	cinfft32_600, cnfft32_600	NatureDSP_Signal_345, NatureDSP_Signal_350, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_370, NatureDSP_Signal_373, NatureDSP_Signal_377,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_415
fft_twd1024_32x32_tbl.o		6328	cfft32_1024, cifft32_1024, NatureDSP_Signal_279, NatureDSP_Signal_312	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379
fft_twd108_32x32_tbl.o		1000	cinfft32_108, cnfft32_108, NatureDSP_Signal_289, NatureDSP_Signal_322	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd12_32x32_tbl.o		176	cinfft32_12, cnfft32_12, NatureDSP_Signal_282, NatureDSP_Signal_315	NatureDSP_Signal_345, NatureDSP_Signal_349, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_369, NatureDSP_Signal_377
fft_twd120_32x32_tbl.o		1080	cinfft32_120, cnfft32_120, NatureDSP_Signal_290, NatureDSP_Signal_323	NatureDSP_Signal_342, NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd128_32x32_tbl.o		920	cfft32_128, cifft32_128, NatureDSP_Signal_276, NatureDSP_Signal_309	NatureDSP_Signal_341, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379
fft_twd144_32x32_tbl.o		1288	cinfft32_144, cnfft32_144, NatureDSP_Signal_291, NatureDSP_Signal_324	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd16_32x32_tbl.o		208	cfft32_16, cifft32_16, NatureDSP_Signal_273, NatureDSP_Signal_306	NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379
fft_twd180_32x32_tbl.o		1560	cinfft32_180, cnfft32_180, NatureDSP_Signal_292, NatureDSP_Signal_325	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd192_32x32_tbl.o		1664	cinfft32_192, cnfft32_192, NatureDSP_Signal_293, NatureDSP_Signal_326	NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_349, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_367, NatureDSP_Signal_369, NatureDSP_Signal_377
fft_twd2048_32x32_tbl.o		12488	cfft32_2048, cifft32_2048, NatureDSP_Signal_280, NatureDSP_Signal_313	NatureDSP_Signal_341, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_367,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379
fft_twd216_32x32_tbl.o		1896	cinfft32_216, cnfft32_216, NatureDSP_Signal_294, NatureDSP_Signal_327	NatureDSP_Signal_341, NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_363, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd24_32x32_tbl.o		304	cinfft32_24, cnfft32_24, NatureDSP_Signal_283, NatureDSP_Signal_316	NatureDSP_Signal_341, NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_373, NatureDSP_Signal_377
fft_twd240_32x32_tbl.o		2040	cinfft32_240, cnfft32_240, NatureDSP_Signal_295, NatureDSP_Signal_328	NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_367, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_twd256_32x32_tbl.o		1696	cfft32_256, cifft32_256, NatureDSP_Signal_277, NatureDSP_Signal_310	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379
fft_twd288_32x32_tbl.o		2464	cinfft32_288, cnfft32_288, NatureDSP_Signal_296, NatureDSP_Signal_329	NatureDSP_Signal_342, NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd300_32x32_tbl.o		2520	cinfft32_300, cnfft32_300, NatureDSP_Signal_297, NatureDSP_Signal_330	NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_367, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_twd32_32x32_tbl.o		320	cfft32_32, cifft32_32, NatureDSP_Signal_274, NatureDSP_Signal_307	NatureDSP_Signal_341, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379
fft_twd324_32x32_tbl.o		2752	cinfft32_324, cnfft32_324, NatureDSP_Signal_298, NatureDSP_Signal_331	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd36_32x32_tbl.o		400	cinfft32_36, cnfft32_36, NatureDSP_Signal_284, NatureDSP_Signal_317	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_379
fft_twd360_32x32_tbl.o		3024	cinfft32_360, cnfft32_360, NatureDSP_Signal_299, NatureDSP_Signal_332	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_347, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_367, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_twd4096_32x32_tbl.o		24784	cfft32_4096, cifft32_4096, NatureDSP_Signal_281, NatureDSP_Signal_314	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379
fft_twd432_32x32_tbl.o		3616	cinfft32_432, cnfft32_432, NatureDSP_Signal_300, NatureDSP_Signal_333	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd48_32x32_tbl.o		496	cinfft32_48, cnfft32_48, NatureDSP_Signal_285, NatureDSP_Signal_318	NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd480_32x32_tbl.o		3984	cinfft32_480, cnfft32_480, NatureDSP_Signal_301, NatureDSP_Signal_334	NatureDSP_Signal_342, NatureDSP_Signal_344, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_364, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd512_32x32_tbl.o		3248	cfft32_512, cifft32_512, NatureDSP_Signal_278, NatureDSP_Signal_311	NatureDSP_Signal_341, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379
fft_twd540_32x32_tbl.o		4464	cinfft32_540, cnfft32_540, NatureDSP_Signal_302, NatureDSP_Signal_335	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd576_32x32_tbl.o		4768	cinfft32_576, cnfft32_576, NatureDSP_Signal_303, NatureDSP_Signal_336	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd60_32x32_tbl.o		576	cinfft32_60, cnfft32_60, NatureDSP_Signal_286, NatureDSP_Signal_319	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd64_32x32_tbl.o		520	cfft32_64, cifft32_64, NatureDSP_Signal_275, NatureDSP_Signal_308	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379
fft_twd72_32x32_tbl.o		720	cinfft32_72, cnfft32_72, NatureDSP_Signal_287, NatureDSP_Signal_320	NatureDSP_Signal_341, NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_363, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd768_32x32_tbl.o		6304	cinfft32_768, cnfft32_768, NatureDSP_Signal_304, NatureDSP_Signal_337	NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd96_32x32_tbl.o		904	cinfft32_96, cnfft32_96, NatureDSP_Signal_288, NatureDSP_Signal_321	NatureDSP_Signal_342, NatureDSP_Signal_346, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_366, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_twd960_32x32_tbl.o		7824	cinfft32_960, cnfft32_960, NatureDSP_Signal_305, NatureDSP_Signal_338	NatureDSP_Signal_344, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd600_32x32_tbl.o		4896	cinfft32_600, cnfft32_600	NatureDSP_Signal_345, NatureDSP_Signal_350, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_370, NatureDSP_Signal_373, NatureDSP_Signal_377, NatureDSP_Signal_415
fft_twd400_32x32_tbl.o		3320	cinfft32_400, cnfft32_400	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd384_32x32_tbl.o		3168	cinfft32_384, cnfft32_384	NatureDSP_Signal_344, NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_415
fft_twd200_32x32_tbl.o		1720	cinfft32_200, cnfft32_200	NatureDSP_Signal_342,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd160_32x32_tbl.o		1352	cinfft32_160, cnfft32_160	NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_415
fft_twd100_32x32_tbl.o		896	cinfft32_100, cnfft32_100	NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_twd80_32x32_tbl.o		736	cinfft32_80, cnfft32_80	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
ifft_cplx_twd1024_24x24_hifi3.o		6164	cifft24_1024, NatureDSP_Signal_157, rifft24_2048	NatureDSP_Signal_104
ifft_cplx_twd1024_hifi3.o, ifft_cplx_twd128_24x24_hifi3.o		788	cifft24_128, NatureDSP_Signal_150, rifft24_256	NatureDSP_Signal_101
ifft_cplx_twd128_hifi3.o, ifft_cplx_twd16_24x24_hifi3.o		116	cifft24_16, NatureDSP_Signal_138, rifft24_32	
ifft_cplx_twd16_hifi3.o, ifft_cplx_twd2048_24x24_hifi3.o		12308	cifft24_2048, NatureDSP_Signal_158, rifft24_4096	NatureDSP_Signal_105
ifft_cplx_twd2048_hifi3.o, ifft_cplx_twd256_24x24_hifi3.o		1556	cifft24_256, NatureDSP_Signal_155, rifft24_512	NatureDSP_Signal_102
ifft_cplx_twd256_hifi3.o, ifft_cplx_twd32_24x24_hifi3.o		212	cifft24_32, NatureDSP_Signal_139, rifft24_64	
ifft_cplx_twd32_hifi3.o, ifft_cplx_twd4096_24x24_hifi3.o		24596	cifft24_4096, NatureDSP_Signal_159, rifft24_8192	NatureDSP_Signal_106
ifft_cplx_twd4096_hifi3.o, ifft_cplx_twd512_24x24_hifi3.o		3092	cifft24_512, NatureDSP_Signal_156, rifft24_1024	NatureDSP_Signal_103
ifft_cplx_twd512_hifi3.o, ifft_cplx_twd64_24x24_hifi3.o		404	cifft24_64, NatureDSP_Signal_140, rifft24_128	NatureDSP_Signal_100
ifft_cplx_twd64_hifi3.o, NatureDSP_Signal_complex_id.o		236	NatureDSP_Signal_annotation_scl_complex2invmag, NatureDSP_Signal_annotation_scl_complex2mag, NatureDSP_Signal_annotation_vec_complex2invmag, NatureDSP_Signal_annotation_vec_complex2mag	
NatureDSP_Signal_fft_id.o		4388	NatureDSP_Signal_annotation_dct_16x16, NatureDSP_Signal_annotation_dct_24x24, NatureDSP_Signal_annotation_dct_32x16, NatureDSP_Signal_annotation_dct_32x32, NatureDSP_Signal_annotation_dct2d_8x16, NatureDSP_Signal_annotation_dct4_24x24, NatureDSP_Signal_annotation_dct4_32x16, NatureDSP_Signal_annotation_dct4_32x32, NatureDSP_Signal_annotation_dctf, NatureDSP_Signal_annotation_fft_cplx16x16, NatureDSP_Signal_annotation_fft_cplx16x16_ie, NatureDSP_Signal_annotation_fft_cplx24x24, NatureDSP_Signal_annotation_fft_cplx24x24_ie, NatureDSP_Signal_annotation_fft_cplx32x16, NatureDSP_Signal_annotation_fft_cplx32x16_ie	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			, NatureDSP_Signal_annotation_fft_cplx32x32, NatureDSP_Signal_annotation_fft_cplx32x32_ie , NatureDSP_Signal_annotation_fft_cplxf_ie, NatureDSP_Signal_annotation_fft_real16x16, NatureDSP_Signal_annotation_fft_real16x16_ie , NatureDSP_Signal_annotation_fft_real24x24, NatureDSP_Signal_annotation_fft_real24x24_ie , NatureDSP_Signal_annotation_fft_real24x24_ie _24p, NatureDSP_Signal_annotation_fft_real32x16, NatureDSP_Signal_annotation_fft_real32x16_ie , NatureDSP_Signal_annotation_fft_real32x16_ie _24p, NatureDSP_Signal_annotation_fft_real32x32, NatureDSP_Signal_annotation_fft_real32x32_ie , NatureDSP_Signal_annotation_fft_realf_ie, NatureDSP_Signal_annotation_idct2d_16x8, NatureDSP_Signal_annotation_ifft_cplx16x16, NatureDSP_Signal_annotation_ifft_cplx16x16_i e, NatureDSP_Signal_annotation_ifft_cplx24x24, NatureDSP_Signal_annotation_ifft_cplx24x24_i e, NatureDSP_Signal_annotation_ifft_cplx32x16, NatureDSP_Signal_annotation_ifft_cplx32x16_i e, NatureDSP_Signal_annotation_ifft_cplx32x32, NatureDSP_Signal_annotation_ifft_cplx32x32_i e, NatureDSP_Signal_annotation_ifft_cplxf_ie, NatureDSP_Signal_annotation_ifft_real16x16, NatureDSP_Signal_annotation_ifft_real16x16_i e, NatureDSP_Signal_annotation_ifft_real24x24, NatureDSP_Signal_annotation_ifft_real24x24_i e, NatureDSP_Signal_annotation_ifft_real24x24_i e_24p, NatureDSP_Signal_annotation_ifft_real32x16, NatureDSP_Signal_annotation_ifft_real32x16_i e, NatureDSP_Signal_annotation_ifft_real32x16_i e_24p, NatureDSP_Signal_annotation_ifft_real32x32, NatureDSP_Signal_annotation_ifft_real32x32_i e, NatureDSP_Signal_annotation_ifft_realf_ie, NatureDSP_Signal_annotation_imdct_24x24, NatureDSP_Signal_annotation_imdct_32x16, NatureDSP_Signal_annotation_imdct_32x32, NatureDSP_Signal_annotation_mdct_24x24, NatureDSP_Signal_annotation_mdct_32x16, NatureDSP_Signal_annotation_mdct_32x32	
NatureDSP_Signal_fir_id.o		5981	NatureDSP_Signal_annotation_bkfir16x16_proce ss, NatureDSP_Signal_annotation_bkfir24x24_proce ss, NatureDSP_Signal_annotation_bkfir24x24p_proc ess, NatureDSP_Signal_annotation_bkfir32x16_proce ss, NatureDSP_Signal_annotation_bkfir32x32_proce ss, NatureDSP_Signal_annotation_bkfira16x16_proc ess, NatureDSP_Signal_annotation_bkfira24x24_proc ess, NatureDSP_Signal_annotation_bkfira32x16_proc ess, NatureDSP_Signal_annotation_bkfira32x32_proc ess, NatureDSP_Signal_annotation_bkfiraf_process, NatureDSP_Signal_annotation_bkfirf_process, NatureDSP_Signal_annotation_cxfir_convol32x1 6, NatureDSP_Signal_annotation_cxfir_convola32x 16,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_cxfir_xcorraf, NatureDSP_Signal_annotation_cxfir_xcorrf, NatureDSP_Signal_annotation_cxfir16x16_process, NatureDSP_Signal_annotation_cxfir24x24_process, NatureDSP_Signal_annotation_cxfir32x16_process, NatureDSP_Signal_annotation_cxfir32x32_process, NatureDSP_Signal_annotation_cxfirf_process, NatureDSP_Signal_annotation_fir_acorr16x16, NatureDSP_Signal_annotation_fir_acorr24x24, NatureDSP_Signal_annotation_fir_acorr32x32, NatureDSP_Signal_annotation_fir_acorra16x16, NatureDSP_Signal_annotation_fir_acorra24x24, NatureDSP_Signal_annotation_fir_acorra32x32, NatureDSP_Signal_annotation_fir_acorraf, NatureDSP_Signal_annotation_fir_acorrf, NatureDSP_Signal_annotation_fir_blms16x16, NatureDSP_Signal_annotation_fir_blms16x32, NatureDSP_Signal_annotation_fir_blms24x24, NatureDSP_Signal_annotation_fir_blms32x32, NatureDSP_Signal_annotation_fir_blmsf, NatureDSP_Signal_annotation_fir_convol16x16, NatureDSP_Signal_annotation_fir_convol24x24, NatureDSP_Signal_annotation_fir_convol32x16, NatureDSP_Signal_annotation_fir_convol32x32, NatureDSP_Signal_annotation_fir_convola16x16, NatureDSP_Signal_annotation_fir_convola24x24, NatureDSP_Signal_annotation_fir_convola32x16, NatureDSP_Signal_annotation_fir_convola32x32, NatureDSP_Signal_annotation_fir_convolaf, NatureDSP_Signal_annotation_fir_convolf, NatureDSP_Signal_annotation_fir_lacorra16x16, NatureDSP_Signal_annotation_fir_lacorra32x32, NatureDSP_Signal_annotation_fir_lconvola16x16, NatureDSP_Signal_annotation_fir_lconvola32x32, NatureDSP_Signal_annotation_fir_lxcorra16x16, NatureDSP_Signal_annotation_fir_lxcorra32x32, NatureDSP_Signal_annotation_fir_xcorr16x16, NatureDSP_Signal_annotation_fir_xcorr24x24, NatureDSP_Signal_annotation_fir_xcorr32x16, NatureDSP_Signal_annotation_fir_xcorr32x32, NatureDSP_Signal_annotation_fir_xcorra16x16, NatureDSP_Signal_annotation_fir_xcorra24x24, NatureDSP_Signal_annotation_fir_xcorra32x16, NatureDSP_Signal_annotation_fir_xcorra32x32, NatureDSP_Signal_annotation_fir_xcorraf, NatureDSP_Signal_annotation_fir_xcorrf, NatureDSP_Signal_annotation_firdec16x16_process, NatureDSP_Signal_annotation_firdec24x24_process, NatureDSP_Signal_annotation_firdec32x16_process, NatureDSP_Signal_annotation_firdec32x32_process, NatureDSP_Signal_annotation_firdecf_process, NatureDSP_Signal_annotation_firinterp16x16_process, NatureDSP_Signal_annotation_firinterp24x24_process, NatureDSP_Signal_annotation_firinterp32x16_process, NatureDSP_Signal_annotation_firinterp32x32_process, NatureDSP_Signal_annotation_firinterpf_process	

Object file	Code size	Data size	Symbols	
			Global	Referenced
NatureDSP_Signal_fit_id.o		250	NatureDSP_Signal_annotation_vec_poly4_24x24, NatureDSP_Signal_annotation_vec_poly4_32x32, NatureDSP_Signal_annotation_vec_poly4f, NatureDSP_Signal_annotation_vec_poly8_24x24, NatureDSP_Signal_annotation_vec_poly8_32x32, NatureDSP_Signal_annotation_vec_poly8f	
NatureDSP_Signal_iir_id.o		1690	NatureDSP_Signal_annotation_bqciirf_df1, NatureDSP_Signal_annotation_bqriir16x16_df1, NatureDSP_Signal_annotation_bqriir16x16_df2, NatureDSP_Signal_annotation_bqriir24x24_df1, NatureDSP_Signal_annotation_bqriir24x24_df2, NatureDSP_Signal_annotation_bqriir32x16_df1, NatureDSP_Signal_annotation_bqriir32x16_df2, NatureDSP_Signal_annotation_bqriir32x32_df1, NatureDSP_Signal_annotation_bqriir32x32_df2, NatureDSP_Signal_annotation_bqriirf_df1, NatureDSP_Signal_annotation_bqriirf_df2, NatureDSP_Signal_annotation_bqriirf_df2t, NatureDSP_Signal_annotation_latr16x16_process, NatureDSP_Signal_annotation_latr24x24_process, NatureDSP_Signal_annotation_latr32x16_process, NatureDSP_Signal_annotation_latr32x32_process, NatureDSP_Signal_annotation_latrf_process	
NatureDSP_Signal_math_id.o		4179	NatureDSP_Signal_annotation_scl_antilog10_24x24, NatureDSP_Signal_annotation_scl_antilog10_32x32, NatureDSP_Signal_annotation_scl_antilog10f, NatureDSP_Signal_annotation_scl_antilog2_24x24, NatureDSP_Signal_annotation_scl_antilog2_32x32, NatureDSP_Signal_annotation_scl_antilog2f, NatureDSP_Signal_annotation_scl_antilogn_24x24, NatureDSP_Signal_annotation_scl_antilogn_32x32, NatureDSP_Signal_annotation_scl_antilognf, NatureDSP_Signal_annotation_scl_atan2_24x24, NatureDSP_Signal_annotation_scl_atan24x24, NatureDSP_Signal_annotation_scl_atan2f, NatureDSP_Signal_annotation_scl_atan32x32, NatureDSP_Signal_annotation_scl_atanf, NatureDSP_Signal_annotation_scl_cosine24x24, NatureDSP_Signal_annotation_scl_cosine32x32, NatureDSP_Signal_annotation_scl_cosinef, NatureDSP_Signal_annotation_scl_divide16x16, NatureDSP_Signal_annotation_scl_divide24x24, NatureDSP_Signal_annotation_scl_divide32x32, NatureDSP_Signal_annotation_scl_float2int, NatureDSP_Signal_annotation_scl_int2float, NatureDSP_Signal_annotation_scl_log10_24x24, NatureDSP_Signal_annotation_scl_log10_32x32, NatureDSP_Signal_annotation_scl_log10f, NatureDSP_Signal_annotation_scl_log2_24x24, NatureDSP_Signal_annotation_scl_log2_32x32, NatureDSP_Signal_annotation_scl_log2f, NatureDSP_Signal_annotation_scl_logn_24x24, NatureDSP_Signal_annotation_scl_logn_32x32, NatureDSP_Signal_annotation_scl_lognf, NatureDSP_Signal_annotation_scl_recip16x16, NatureDSP_Signal_annotation_scl_recip24x24, NatureDSP_Signal_annotation_scl_recip32x32, NatureDSP_Signal_annotation_scl_rsqrt16x16, NatureDSP_Signal_annotation_scl_rsqrt32x32, NatureDSP_Signal_annotation_scl_sigmoid32x32, NatureDSP_Signal_annotation_scl_sine24x24, NatureDSP_Signal_annotation_scl_sine32x32, NatureDSP_Signal_annotation_scl_sinef, NatureDSP_Signal_annotation_scl_sqrt16x16, NatureDSP_Signal_annotation_scl_sqrt24x24, NatureDSP_Signal_annotation_scl_sqrt32x32, NatureDSP_Signal_annotation_scl_sqrt64x32, NatureDSP_Signal_annotation_scl_tan24x24, NatureDSP_Signal_annotation_scl_tan32x32, NatureDSP_Signal_annotation_scl_tanf,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_scl_tanh32x32, NatureDSP_Signal_annotation_vec_antilog10_24x24, NatureDSP_Signal_annotation_vec_antilog10_32x32, NatureDSP_Signal_annotation_vec_antilog10f, NatureDSP_Signal_annotation_vec_antilog2_24x24, NatureDSP_Signal_annotation_vec_antilog2_32x32, NatureDSP_Signal_annotation_vec_antilog2f, NatureDSP_Signal_annotation_vec_antilogn_24x24, NatureDSP_Signal_annotation_vec_antilogn_32x32, NatureDSP_Signal_annotation_vec_antilognf, NatureDSP_Signal_annotation_vec_atan2_24x24, NatureDSP_Signal_annotation_vec_atan24x24, NatureDSP_Signal_annotation_vec_atan2f, NatureDSP_Signal_annotation_vec_atan32x32, NatureDSP_Signal_annotation_vec_atanf, NatureDSP_Signal_annotation_vec_cosine24x24, NatureDSP_Signal_annotation_vec_cosine24x24_fast, NatureDSP_Signal_annotation_vec_cosine32x32, NatureDSP_Signal_annotation_vec_cosine32x32_fast, NatureDSP_Signal_annotation_vec_cosinef, NatureDSP_Signal_annotation_vec_divide16x16, NatureDSP_Signal_annotation_vec_divide16x16_fast, NatureDSP_Signal_annotation_vec_divide24x24, NatureDSP_Signal_annotation_vec_divide24x24_fast, NatureDSP_Signal_annotation_vec_divide32x32, NatureDSP_Signal_annotation_vec_divide32x32_fast, NatureDSP_Signal_annotation_vec_float2int, NatureDSP_Signal_annotation_vec_int2float, NatureDSP_Signal_annotation_vec_log10_24x24, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10f, NatureDSP_Signal_annotation_vec_log2_24x24, NatureDSP_Signal_annotation_vec_log2_32x32, NatureDSP_Signal_annotation_vec_log2f, NatureDSP_Signal_annotation_vec_logn_24x24, NatureDSP_Signal_annotation_vec_logn_32x32, NatureDSP_Signal_annotation_vec_lognf, NatureDSP_Signal_annotation_vec_recip16x16, NatureDSP_Signal_annotation_vec_recip24x24, NatureDSP_Signal_annotation_vec_recip32x32, NatureDSP_Signal_annotation_vec_rsqrt16x16, NatureDSP_Signal_annotation_vec_rsqrt32x32, NatureDSP_Signal_annotation_vec_sigmoid32x32, NatureDSP_Signal_annotation_vec_sine24x24, NatureDSP_Signal_annotation_vec_sine24x24_fast, NatureDSP_Signal_annotation_vec_sine32x32, NatureDSP_Signal_annotation_vec_sine32x32_fast, NatureDSP_Signal_annotation_vec_sinef, NatureDSP_Signal_annotation_vec_softmax32x32, NatureDSP_Signal_annotation_vec_sqrt16x16, NatureDSP_Signal_annotation_vec_sqrt24x24, NatureDSP_Signal_annotation_vec_sqrt24x24_fast, NatureDSP_Signal_annotation_vec_sqrt32x32, NatureDSP_Signal_annotation_vec_sqrt32x32_fast, NatureDSP_Signal_annotation_vec_sqrt64x32, NatureDSP_Signal_annotation_vec_tan24x24, NatureDSP_Signal_annotation_vec_tan32x32, NatureDSP_Signal_annotation_vec_tanf, NatureDSP_Signal_annotation_vec_tanh32x32	
NatureDSP_Signal_matinv_id.o		117	NatureDSP_Signal_annotation_mtx_inv2x2f, NatureDSP_Signal_annotation_mtx_inv3x3f, NatureDSP_Signal_annotation_mtx_inv4x4f	
NatureDSP_Signal_matop_id.o		632	NatureDSP_Signal_annotation_mtx_mpy16x16, NatureDSP_Signal_annotation_mtx_mpy16x16_fas	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			t, NatureDSP_Signal_annotation_mtx_mpy24x24, NatureDSP_Signal_annotation_mtx_mpy24x24_fast, NatureDSP_Signal_annotation_mtx_mpy32x32, NatureDSP_Signal_annotation_mtx_mpy32x32_fast, NatureDSP_Signal_annotation_mtx_mpyf, NatureDSP_Signal_annotation_mtx_mpyf_fast, NatureDSP_Signal_annotation_mtx_vecmpy16x16, NatureDSP_Signal_annotation_mtx_vecmpy16x16_fast, NatureDSP_Signal_annotation_mtx_vecmpy24x24, NatureDSP_Signal_annotation_mtx_vecmpy24x24_fast, NatureDSP_Signal_annotation_mtx_vecmpy32x32, NatureDSP_Signal_annotation_mtx_vecmpy32x32_fast, NatureDSP_Signal_annotation_mtx_vecmpyf, NatureDSP_Signal_annotation_mtx_vecmpyf_fast	
NatureDSP_Signal_vector_id.o		2937	NatureDSP_Signal_annotation_scl_bexp16, NatureDSP_Signal_annotation_scl_bexp24, NatureDSP_Signal_annotation_scl_bexp32, NatureDSP_Signal_annotation_scl_bexpf, NatureDSP_Signal_annotation_vec_add16x16, NatureDSP_Signal_annotation_vec_add16x16_fast, NatureDSP_Signal_annotation_vec_add24x24, NatureDSP_Signal_annotation_vec_add24x24_fast, NatureDSP_Signal_annotation_vec_add32x32, NatureDSP_Signal_annotation_vec_add32x32_fast, NatureDSP_Signal_annotation_vec_addf, NatureDSP_Signal_annotation_vec_bexp16, NatureDSP_Signal_annotation_vec_bexp16_fast, NatureDSP_Signal_annotation_vec_bexp24, NatureDSP_Signal_annotation_vec_bexp24_fast, NatureDSP_Signal_annotation_vec_bexp32, NatureDSP_Signal_annotation_vec_bexp32_fast, NatureDSP_Signal_annotation_vec_bexpf, NatureDSP_Signal_annotation_vec_dot16x16, NatureDSP_Signal_annotation_vec_dot16x16_fast, NatureDSP_Signal_annotation_vec_dot24x24, NatureDSP_Signal_annotation_vec_dot24x24_fast, NatureDSP_Signal_annotation_vec_dot32x16, NatureDSP_Signal_annotation_vec_dot32x16_fast, NatureDSP_Signal_annotation_vec_dot32x32, NatureDSP_Signal_annotation_vec_dot32x32_fast, NatureDSP_Signal_annotation_vec_dotf, NatureDSP_Signal_annotation_vec_max16x16, NatureDSP_Signal_annotation_vec_max16x16_fast, NatureDSP_Signal_annotation_vec_max24x24, NatureDSP_Signal_annotation_vec_max24x24_fast, NatureDSP_Signal_annotation_vec_max32x32, NatureDSP_Signal_annotation_vec_max32x32_fast, NatureDSP_Signal_annotation_vec_maxf, NatureDSP_Signal_annotation_vec_min16x16, NatureDSP_Signal_annotation_vec_min16x16_fast, NatureDSP_Signal_annotation_vec_min24x24, NatureDSP_Signal_annotation_vec_min24x24_fast, NatureDSP_Signal_annotation_vec_min32x32, NatureDSP_Signal_annotation_vec_min32x32_fast, NatureDSP_Signal_annotation_vec_minf, NatureDSP_Signal_annotation_vec_power16x16, NatureDSP_Signal_annotation_vec_power16x16_fast, NatureDSP_Signal_annotation_vec_power24x24, NatureDSP_Signal_annotation_vec_power24x24_fast, NatureDSP_Signal_annotation_vec_power32x32, NatureDSP_Signal_annotation_vec_power32x32_fast, NatureDSP_Signal_annotation_vec_powerf, NatureDSP_Signal_annotation_vec_scale_sf, NatureDSP_Signal_annotation_vec_scale16x16, NatureDSP_Signal_annotation_vec_scale16x16_fast, NatureDSP_Signal_annotation_vec_scale24x24, NatureDSP_Signal_annotation_vec_scale24x24_fast, NatureDSP_Signal_annotation_vec_scale32x24, NatureDSP_Signal_annotation_vec_scale32x24_fast, NatureDSP_Signal_annotation_vec_scale32x32, NatureDSP_Signal_annotation_vec_scale32x32_f	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			ast, NatureDSP_Signal_annotation_vec_scalef, NatureDSP_Signal_annotation_vec_shift16x16, NatureDSP_Signal_annotation_vec_shift16x16_fast, NatureDSP_Signal_annotation_vec_shift24x24, NatureDSP_Signal_annotation_vec_shift24x24_fast, NatureDSP_Signal_annotation_vec_shift32x32, NatureDSP_Signal_annotation_vec_shift32x32_fast, NatureDSP_Signal_annotation_vec_shiftf	
feature.o	10		__NatureDSP_Signal_isPresent	
version.o	40	10	NatureDSP_Signal_get_library_api_version, NatureDSP_Signal_get_library_version	strncpy