

NatureDSP Signal for HiFi4

Digital Signal Processing

Performance data

Library Release 4.0.0 API Revision 4.10

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Performance Briefs

This chapter collects brief performance data for library functions. All data presented below are given with memory modeling (build with $MEM_MODEL=1$ and run simulator with $-mem_mode1$). This performance measurement is done using the Xtensa Xplorer and Tools version RG-2018.9 Core used is HiFi4 + VFPU (bd5) with xclib configurations.

		I	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
FIR Filters			
Filtering			
bkfir16x16_process	Fast Real FIR filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 80; M: 256	2929 (7.0 MACs/cycle)
bkfira16x16_process	Real FIR filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 80; M: 256	2999 (6.8 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	5440 (3.8 MACs/cycle)
bkfir32x16_process	Fast Real FIR filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 256	3629 (5.6 MACs/cycle)
bkfir32x32_process	Fast Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 80; M: 256	5398 (3.8 MACs/cycle)
bkfir32x32ep_proces s	Fast Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 80; M: 256	5581 (3.7 MACs/cycle)
bkfira32x16_process	Real FIR filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 256	4261 (4.8 MACs/cycle)
bkfira32x32_process	Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 80; M: 256	5608 (3.7 MACs/cycle)
bkfira32x32ep_proce	Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N. 90. M. 256	5770 (2 5 MACG/GUGLO)
SS	Fast Complex Block FIR Filter (16-bit data, 16-bit coefficients, 16-	N: 80; M: 256	5770 (3.5 MACs/cycle)
cxfir16x16_process	bit outputs)	N: 80; M: 128	8176 (5.0 MACs/cycle)
cxfir32x16_process	Fast Complex Block FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 128	10838 (3.8 MACs/cycle)
cxfir32x32 process	Fast Complex Block FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 80; M: 128	10858 (3.8 MACs/cycle)
cxfir32x32ep_proces	Fast Complex Block FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 80; M: 128	11022 (3.7 MACs/cycle)
stereo_bkfir16x16_p rocess	Fast Real FIR Stereo filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 80; M: 256	6161 (6.6 MACs/cycle)
stereo_bkfir32x32_p rocess	Fast Real FIR Stereo filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 80; M: 256	10914 (3.8 MACs/cycle)
bkfiraf_process	Real FIR filter (floating point data)	N: 512; M: 32	7452 (2.2 MACs/cycle)
bkfirf_process	Fast Real FIR filter (floating point data)	N: 512; M: 32	7693 (2.1 MACs/cycle)
stereo_bkfirf_proce ss	Fast Real FIR Stereo filter (floating point data)	N: 512; M: 32	18165 (1.8 MACs/cycle)
cxfirf_process	Fast Complex Block FIR Filter (floating point data)	N: 512; M: 32	19211 (3.4 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	46110 (5.7 MACs/cycle)
firdec16x16_process	Decimating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 3	80036 (3.3 MACs/cycle)
firdec16x16_process	Decimating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 4	39200 (6.7 MACs/cycle)
firdec32x16_process	Decimating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 2	39206 (6.7 MACs/cycle)
firdec32x16_process	Decimating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	66085 (4.0 MACs/cycle)
firdec32x16_process	Decimating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	43302 (6.1 MACs/cycle)
firdec32x32_process	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 2	71712 (3.7 MACs/cycle)
firdec32x32_process	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	74531 (3.5 MACs/cycle)
firdec32x32_process	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	74272 (3.5 MACs/cycle)
firdec32x32ep_proce ss	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate	N: 1024; M: 256; D: 2	89121 (2.9 MACs/cycle)

		Invocation	Cycles Measurements
Function Name	Description	parameters	RG2018.9, HiFi4 with VFPU, bd5
	computations		
firdec32x32ep_proce	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 1024; M: 256; D: 3	75299 (3.5 MACs/cycle)
firdec32x32ep_proce ss	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 1024; M: 256; D: 4	74532 (3.5 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 2 N: 1024; M:	71702 (3.7 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	256; D: 3 N: 1024; M:	99353 (2.6 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	256; D: 4	114713 (2.3 MACs/cycle)
Interpolation			
firinterp16x16_proc ess	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 2	88857 (5.9 MACs/cycle)
firinterp16x16_proc ess	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 3	134307 (5.9 MACs/cycle)
firinterp16x16_proc ess	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 4	178215 (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	81961 (6.4 MACs/cycle)
firinterp32x16_process	Interpolating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	121387 (6.5 MACs/cycle)
firinterp32x16_process	Interpolating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	164139 (6.4 MACs/cycle)
firinterp32x32_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 2	140072 (3.7 MACs/cycle)
firinterp32x32_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	217129 (3.6 MACs/cycle)
firinterp32x32_proc ess	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	287784 (3.6 MACs/cycle)
firinterp32x32ep_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 1024; M: 256; D: 2	142116 (3.7 MACs/cycle)
firinterp32x32ep_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 1024; M: 256; D: 3	219945 (3.6 MACs/cycle)
firinterp32x32ep_pr	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 1024; M: 256; D: 4	293415 (3.6 MACs/cycle)
firinterpf process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 2	134422 (3.9 MACs/cycle)
firinterpf process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 3	221461 (3.6 MACs/cycle)
firinterpf_process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 4	269336 (3.9 MACs/cycle)
Correlation, Convolution, Despreading, LMS			
fir_convol16x16	Fast Circular Convolution (16x16-bit data, 16-bit outputs)	N: 256; M: 80	4112 (5.0 MACs/cycle)
fir_convol32x16	Fast Circular Convolution (32x16-bit data, 32-bit outputs)	N: 256; M: 80	3799 (5.4 MACs/cycle)
fir_convol32x32	Fast Circular Convolution (32x32-bit data, 32-bit outputs) Fast Circular Convolution (32x32-bit data, 32-bit outputs) using 72-	N: 256; M: 80	5626 (3.6 MACs/cycle)
fir_convol32x32ep	bit accumulator for intermediate computations	N: 256; M: 80	6418 (3.2 MACs/cycle)
fir_convola16x16	Circular Convolution (16x16-bit data, 16-bit outputs)	N=256; M=80	3937 (5.2 MACs/cycle)
fir_convola32x16	Circular Convolution (32x16-bit data, 32-bit outputs)	N: 256; M: 80	4130 (5.0 MACs/cycle)
fir_convola32x32	Circular Convolution (32x32-bit data, 32-bit outputs) Circular Convolution (32x32-bit data, 32-bit outputs) using 72-bit	N=256; M=80	5903 (3.5 MACs/cycle)
fir_convola32x32ep	accumulator for intermediate computations Fast Circular Convolution (32x16-bit complex data, 32-bit complex	N=256; M=80	6611 (3.1 MACs/cycle)
cxfir_convol32x16	outputs)	N: 256; M: 80	16456 (5.0 MACs/cycle)
cxfir_convola32x16	Circular Convolution (32x16-bit complex data, 32-bit complex outputs)	N: 256; M: 80	17109 (4.8 MACs/cycle)
fir_lconvola16x16	Linear Convolution (16x16-bit data, 16-bit outputs)	N=256; M=80	4228 (4.8 MACs/cycle)

			Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
fir_lconvola32x32	Linear Convolution (32x32-bit data, 32-bit outputs)	N=256; M=80	11935 (1.7 MACs/cycle)
fir_xcorr16x16	Fast Circular Correlation (16x16-bit data, 16-bit outputs)	N: 256; M: 80	4590 (4.5 MACs/cycle)
fir_xcorr32x16	Fast Circular Correlation (32x16-bit data, 32-bit outputs)	N: 256; M: 80	3593 (5.7 MACs/cycle)
fir_xcorr32x32	Fast Circular Correlation (32x32-bit data, 32-bit outputs)	N: 256; M: 80	5578 (3.7 MACs/cycle)
fir_xcorr32x32ep	Fast Circular Correlation (32x32-bit data, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 256; M: 80	6216 (3.3 MACs/cycle)
cxfir xcorr32x32	Fast Circular Correlation (32x32-bit complex data, 32-bit complex outputs)	N: 256; M: 80	21251 (3.9 MACs/cycle)
fir xcorra16x16	Circular Correlation (16x16-bit data, 16-bit outputs)	N: 256; M: 80	3932 (5.2 MACs/cycle)
fir xcorra32x16	Circular Correlation (32x16-bit data, 32-bit outputs)	N: 256; M: 80	4164 (4.9 MACs/cycle)
fir xcorra32x32	Circular Correlation (32x32-bit data, 32-bit outputs)	N: 256; M: 80	5972 (3.4 MACs/cycle)
fir_xcorra32x32ep	Circular Correlation (32x32-bit data, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 256; M: 80	6675 (3.1 MACs/cycle)
fir_lxcorra16x16	Linear Correlation (16x16-bit data, 16-bit outputs)	N=256; M=80	4242 (4.8 MACs/cycle)
fir_lxcorra32x32	Linear Correlation (32x32-bit data, 32-bit outputs)	N=256; M=80	11970 (1.7 MACs/cycle)
fir_acorr16x16	Fast Circular Autocorrelation (16-bit data, 16-bit outputs)	N: 256	12985 (5.0 MACs/cycle)
fir_acorr32x32	Fast Circular Autocorrelation (32-bit data, 32-bit outputs)	N: 256	16849 (3.9 MACs/cycle)
fir_acorr32x32ep	Fast Circular Autocorrelation (32-bit data, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 256	17607 (3.7 MACs/cycle)
fir_acorra16x16	Circular Autocorrelation (16-bit data, 16-bit outputs)	N=256	9695 (6.8 MACs/cycle)
fir_acorra32x32	Circular Autocorrelation (32-bit data, 32-bit outputs)	N: 256	17123 (3.8 MACs/cycle)
fir_acorra32x32ep	Circular Autocorrelation (32-bit data, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 256	17823 (3.7 MACs/cycle)
fir_lacorra16x16	Linear Autocorrelation (16-bit data, 16-bit outputs)	N=256	5303 (6.2 MACs/cycle)
fir_lacorra32x32	Linear Autocorrelation (32-bit data, 32-bit outputs)	N=256	17885 (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	3778 (5.4 MACs/cycle)
fir_blms16x32	Blockwise Adaptive LMS Algorithm for Real Data (32-bit coefficients, 16-bit data, 16-bit output)	N: 80; M: 128	3677 (5.6 MACs/cycle)
fir_blms32x32	Blockwise Adaptive LMS Algorithm for Real Data (32-bit coefficients, 32-bit data, 32-bit output) Blockwise Adaptive LMS Algorithm for Real Data (32-bit	N: 80; M: 128	5683 (3.6 MACs/cycle)
fir_blms32x32ep	coefficients, 32-bit data, 32-bit output) using 72-bit accumulator for intermediate computations Blockwise Adaptive LMS Algorithm for Complex Data (32-bit coefficients, 32-bit data, 32-bit output)	N: 80; M: 128	6216 (3.3 MACs/cycle)
cxfir_blms32x32	Fast Circular Convolution (floating point data)	N: 80; M: 128	21963 (3.7 MACs/cycle)
fir_convolf		N: 256; M: 80	6916 (3.0 MACs/cycle)
fir_convolaf	Circular Convolution (floating point data)	N: 256; M: 80	7459 (2.7 MACs/cycle)
fir_xcorrf	Fast Circular Correlation (floating point data)	N: 256; M: 80	6662 (3.1 MACs/cycle)
cxfir_xcorrf	Circular Correlation (complex floating point data)	N: 256; M: 80	21636 (3.8 MACs/cycle)
fir_xcorraf	Circular Correlation (floating point data) Circular Correlation (complex floating point data)	N: 256; M: 80	7504 (2.7 MACs/cycle)
cxfir_xcorraf		N: 256; M: 80	21643 (3.8 MACs/cycle)
fir_acorrf	Fast Circular Autocorrelation (floating point data)	N: 256	17932 (3.7 MACs/cycle)
fir_acorraf fir blmsf	Circular Autocorrelation (floating point data) Blockwise Adaptive LMS Algorithm for Real Data (floating point data)	N: 256 N: 80; M: 128	19338 (3.4 MACs/cycle) 6633 (3.1 MACs/cycle)
cxfir_blmsf	Blockwise Adaptive LMS Algorithm for Complex Data (floating point data)	N: 80; M: 128	21561 (3.8 MACs/cycle)
2D convolution			
conv2d_3x3_8x8	2D Convolution (3x3 8-bit kernel, 8-bit data)	M=3, N=3, P=256, Q=256	174607 (3.4 MACs/cycle)
conv2d_5x5_8x8	2D Convolution (5x5 8-bit kernel, 8-bit data)	M=5, N=5, P=256, Q=256 M=11, N=7, P=256	674318 (2.4 MACs/cycle)
conv2d_11x7_8x8	2D Convolution (11x7 8-bit kernel, 8-bit data)	,Q=256 M=3,N=3,P=256,	906738 (5.6 MACs/cycle)
conv2d_3x3_8x16	2D Convolution (3x3 8-bit kernel, 16-bit data)	Q=256	139893 (4.2 MACs/cycle)

		Invacation	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
conv2d_5x5_8x16	2D Convolution (5x5 8-bit kernel, 16-bit data)	M=5, N=5, P=256, Q=256	588256 (2.8 MACs/cycle)
conv2d_11x7_8x16	2D Convolution (11x7 8-bit kernel, 16-bit data)	M=11, N=7, P=256 ,Q=256	858611 (5.9 MACs/cycle)
conv2d 3x3 16x16	2D Convolution (3x3 16-bit kernel, 16-bit data)	M=3, N=3, P=256, Q=256	139874 (4.2 MACs/cycle)
conv2d 5x5 16x16	2D Convolution (5x5 16-bit kernel, 16-bit data)	M=5,N=5,P=256, Q=256	586147 (2.8 MACs/cycle)
conv2d 11x7 16x16	2D Convolution (11x7 16-bit kernel, 16-bit data)	M=11, N=7, P=256 ,Q=256	858554 (5.9 MACs/cycle)
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IIR Filters			
Biquad Filters			
bgriir16x16 df1	Bi-quad Real Block IIR, DFI (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs)	N=256, M=8, gain=1	4892 (2.4 cycles/(biquad*pts)
h	Bi-quad Real Block IIR, DFII (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs)	N=256, M=8,	
bqriir16x16_df2 bqriir32x16 df1	Bi-quad Real Block IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs)	gain=1 N=256, M=8, gain=1	4897 (2.4 cycles/(biquad*pts) 3452 (1.7 cycles/(biquad*pts)
_	Bi-quad Real Block IIR, DFII (32-bit data, 16-bit coefficients, 32-bit	N=256, M=8,	
bqriir32x16_df2	intermediate stage outputs) Bi-quad Real Block IIR, DFI (32-bit data, 32-bit coefficients, 32-bit	gain=1 N=256, M=8,	4047 (2.0 cycles/(biquad*pts)
bqriir32x32_df1	intermediate stage outputs)	gain=1	3506 (1.7 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	6038 (2.9 cycles/(biquad*pts)
stereo_bqriir16x16_ df1	Bi-quad Stereo Block Stereo IIR, DFI (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs)	N=256, M=8, gain=1	10661 (5.2 cycles/(biquad*pts)
stereo_bqriir32x16_	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 16-bit	N=256, M=8,	
df1 stereo bqriir32x32	coefficients, 32-bit intermediate stage outputs) Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 32-bit	gain=1 N=256, M=8,	9637 (4.7 cycles/(biquad*pts)
df1	coefficients, 32-bit intermediate stage outputs)	gain=1	8422 (4.1 cycles/(biquad*pts)
bqriirf_df1	Bi-quad Real Block IIR, DFI (floating point data)	N=512, M=16	22474 (2.7 cycles/(biquad*pts)
bqriirf_df2	Bi-quad Real Block IIR, DFII (floating point data)	N=512, M=16	19921 (2.4 cycles/(biquad*pts)
bqriirf_df2t	Bi-quad Real Block IIR, DFIIt (floating point data)	N=512, M=16	18457 (2.3 cycles/(biquad*pts)
bqciirf_df1	Bi-quad Real Block IIR, DFI (complex floating point data)	N=512, M=16	37813 (4.6 cycles/(biquad*pts)
stereo_bqriirf_dfl	Bi-quad Real Block Stereo IIR, DFI (floating point data)	N=512, M=16	38518 (4.7 cycles/(biquad*pts)
Lattice Filters latr16x16 process	Lattice Block Real IIR (16-bit data, 16-bit coefficients)	N=256, M=8	2601 (1.3 cycles/(sample*M)
latr32x16 process	Lattice Block Real IIR (32-bit data, 16-bit coefficients)	N=256, M=8	2592 (1.3 cycles/(sample*M)
latr32x32 process	Lattice Block Real IIR (32-bit data, 70-bit coefficients)	N=256, M=8	3101 (1.5 cycles/(sample*M)
latrf process	Lattice Block Real IIR (floating point data)	N=256, M=8	6401 (3.1 cycles/(sample*M)
Math Functions			
Vectorized Math			
vec_recip16x16	Vector Reciprocal (16-bit data)	N=200	2015 (10.1 cycles/pts)
vec_recip32x32	Vector Reciprocal (32-bit data)	N=200	2631 (13.2 cycles/pts)
vec_recip64x64	Vector Reciprocal (64-bit data) Vector Division (64-bit nominator, 32-bit denominator, 32-bit	N=200	4333 (21.7 cycles/pts)
vec_divide64x32i	output)	N=200	4333 (21.7 cycles/pts)
vec_divide64x64	Vector Division (64-bit data)	N=200	6269 (31.3 cycles/pts)
vec_log2_32x32	Vector Base-2 Logarithm (32-bit data)	N=200	928 (4.6 cycles/pts)
vec_logn_32x32	Vector Natural Logarithm (32-bit data)	N=200	1032 (5.2 cycles/pts)
vec_log10_32x32	Vector Base-10 Logarithm (32-bit data)	N=200	1032 (5.2 cycles/pts)
vec_antilog2_32x32	Vector Base-2 Antilogarithm, (32-bit data)	N=200	584 (2.9 cycles/pts)
vec_antilogn_32x32	Vector Natural Antilogarithm, (32-bit data)	N=200	742 (3.7 cycles/pts)
vec_antilog10_32x32	Vector Base-10 Antilogarithm, (32-bit data)	N=200	742 (3.7 cycles/pts)
vec_pow_32x32	Vector Power Function, (32-bit data)	N=200	9242 (46.2 cycles/pts)

		latian	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
vec tan32x32	Vector Tangent (32-bit data)	N=200	2945 (14.7 cycles/pts)
vec_atan32x32	Vector Arctangent (32-bit data)	N=200	1030 (5.2 cycles/pts)
vec sqrt16x16	Vector Square Root (16-bit inputs, 16-bit output)	N=200	1192 (6.0 cycles/pts)
vec sqrt32x16	Vector Square Root (32-bit inputs, 16-bit output)	N=200	1571 (7.9 cycles/pts)
vec sqrt64x32	Vector Square Root (64-bit inputs, 32-bit output)	N=200	1245 (6.2 cycles/pts)
vec rsqrt16x16	Vector Reciprocal Square Root (16-bit data)	N=200	2308 (11.5 cycles/pts)
vec rsqrt32x32	Vector Reciprocal Square Root (32-bit data)	N=200	2907 (14.5 cycles/pts)
vec sigmoid32x32	Vector Sigmoid (32-bit data)	N=200	1170 (5.8 cycles/pts)
vec softmax32x32	Vector Softmax (32-bit data)	N=200	1080 (5.4 cycles/pts)
vec tanh32x32	Vector Hyperbolic Tangent (32-bit data)	N=200	1167 (5.8 cycles/pts)
vec relu32x32	Vector Rectifier Function (32-bit data)	N=200	218 (1.1 cycles/pts)
vec int2float	Integer to Floating Value Vector Conversion	N=200	229 (1.1 cycles/pts)
vec float2int	Integer to Floating Value Vector Conversion	N=200	225 (1.1 cycles/pts)
vec sinef	Sine (floating point data)	N=200	2997 (15.0 cycles/pts)
vec cosinef	Cosine (floating point data)	N=200	2955 (14.8 cycles/pts)
vec tanf	Vector Tangent (floating point data)	N=200	3700 (18.5 cycles/pts)
vec log2f	Vector Base-2 Logarithm (floating point data)	N=200	2544 (12.7 cycles/pts)
vec log10f	Vector Base-10 Logarithm (floating point data)	N=200	2516 (12.6 cycles/pts)
vec_lognf	Vector Natural Logarithm (floating point data)	N=200	2373 (11.9 cycles/pts)
vec_regnr vec antilog2f	Vector Base-2 Antilogarithm, (floating point data)	N=200	1145 (5.7 cycles/pts)
vec antilognf	Vector Natural Antilogarithm, (floating point data)	N=200	1148 (5.7 cycles/pts)
vec_antilog10f	Vector Base-10 Antilogarithm, (floating point data)	N=200	1337 (6.7 cycles/pts)
vec atanf	Vector Arctangent (floating point data)	N=200	2445 (12.2 cycles/pts)
vec atan2f	Vector Full-Quadrant Arctangent (floating point data)	N=200	3513 (17.6 cycles/pts)
vec sigmoidf	Vector Sigmoid (floating point data)	N=200	3356 (16.8 cycles/pts)
vec softmaxf	Vector Softmax (floating point data)	N=200	1845 (9.2 cycles/pts)
vec tanhf	Vector Hyperbolic Tangent (floating point data)	N=200	4278 (21.4 cycles/pts)
vec_camir vec reluf	Vector Rectifier Function (floating point data)	N=200	216 (1.1 cycles/pts)
Vectorized Fast	vector (vector) another (neating point data)	N-200	210 (1.1 cycles/pts)
Math vec divide16x16 fas			
t	Fast Vector Division (16-bit data)	N=200	1143 (5.7 cycles/pts)
vec_divide32x32_fas t	Fast Vector Division (32-bit data)	N=200	1631 (8.2 cycles/pts)
vec_sine32x32_fast	Fast Vector Sine (32-bit data)	N=200	727 (3.6 cycles/pts)
vec_cosine32x32_fas t	Fast Vector Cosine (32-bit data)	N=200	728 (3.6 cycles/pts)
vec sqrt32x32 fast	Fast Vector Square Root (32-bit inputs, 32-bit output)	N=200	1172 (5.9 cycles/pts)
Scalar Math	- aut 100tor Oquaro 1100t (02 bit iliputo, 02-bit output)	N 200	11/2 (0.5 Cycles/pcs)
Scarar Macii			
Complex Functions			
Vectorized Complex			
Math			
vec_complex2mag	Vector Complex Magnitude (floating point data)	N=200	3415 (17.1 cycles/pts)
vec_complex2invmag	Vector Reciprocal Complex Magnitude (floating point data)	N=200	2567 (12.8 cycles/pts)
Scalar Complex Math			
Vector Operations			
vec_dot16x16_fast	Fast Vector Dot product (16x16-bit data, 32-bit output)	N=200	64 (0.3 cycles/pts)
vec_dot32x16_fast	Fast Vector Dot product (32x16-bit data, 64-bit output)	N=200	85 (0.4 cycles/pts)

		Invocation	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
vec_dot32x32_fast	Fast Vector Dot product (32x32-bit data, 64-bit output)	N=200	114 (0.6 cycles/pts)
vec_dot64x32_fast	Fast Vector Dot product (64x32-bit data, 64-bit output)	N=200	215 (1.1 cycles/pts)
vec_dot64x64_fast	Fast Vector Dot product (64x64-bit data, 64-bit output)	N=200	215 (1.1 cycles/pts)
vec_dot64x64i_fast	Fast Vector Dot product (64x64-bit data, 64-bit output (low 64 bit of integer multiply))	N=200	210 (1.0 cycles/pts)
vec_add16x16_fast	Fast Vector Sum (16-bit data)	N=200	89 (0.4 cycles/pts)
vec_add32x32_fast	Fast Vector Sum (32-bit data)	N=200	160 (0.8 cycles/pts)
vec_power16x16_fast	Fast Power of a Vector (16x16-bit data, 64-bit output)	N=200	39 (0.2 cycles/pts)
vec_power32x32_fast	Fast Power of a Vector (32x32-bit data, 64-bit output)	N=200	60 (0.3 cycles/pts)
vec_shift16x16_fast	Fast Vector Shift with Saturation (16-bit data)	shift>0, N=200	104 (0.5 cycles/pts)
vec_shift16x16_fast	Fast Vector Shift with Saturation (16-bit data)	shift<0, N=200	72 (0.4 cycles/pts)
vec_shift32x32_fast	Fast Vector Shift with Saturation (32-bit data)	N=200	114 (0.6 cycles/pts)
vec_scale16x16_fast	Fast Vector Scaling with Saturation (16-bit input, 16-bit output)	N=200	62 (0.3 cycles/pts)
vec_scale32x32_fast	Fast Vector Scaling with Saturation (32-bit input, 32-bit output)	N=200	112 (0.6 cycles/pts)
vec_max16x16_fast	Fast Vector Maximum Value (16-bit data)	N=200	67 (0.3 cycles/pts)
vec min16x16 fast	Fast Vector Minimum Value (16-bit data)	N=200	66 (0.3 cycles/pts)
vec_max32x32_fast	Fast Vector Maximum Value (32-bit data)	N=200	86 (0.4 cycles/pts)
vec min32x32 fast	Fast Vector Minimum Value (32-bit data)	N=200	86 (0.4 cycles/pts)
vec bexp16	Common Exponent (16-bit input data)	N=200	119 (0.6 cycles/pts)
vec bexp32	Common Exponent (32-bit input data)	N=200	119 (0.6 cycles/pts)
vec bexp16 fast	Fast Common Exponent (16-bit input data)	N=200	99 (0.5 cycles/pts)
vec bexp32 fast	Fast Common Exponent (32-bit input data)	N=200	95 (0.5 cycles/pts)
scl bexp16	Exponent (16-bit input data)		5 (cycles)
scl bexp32	Exponent (32-bit input data)		3 (cycles)
vec dotf	Vector Dot product (floating point data)	N=200	236 (1.2 cycles/pts)
vec addf	Vector Sum (floating point data)	N=200	222 (1.1 cycles/pts)
vec powerf	Power of a Vector (floating point data)	N=200	114 (0.6 cycles/pts)
vec shiftf	Vector Shift with Saturation (floating point data)	N=200	224 (1.1 cycles/pts)
vec scalef	Vector Scaling with Saturation (floating point data)	N=200	214 (1.1 cycles/pts)
vec scale sf	Vector Scaling with Saturation (floating point data)	N=200	231 (1.2 cycles/pts)
vec minf	Vector Minimum Value (floating point data)	N=200	117 (0.6 cycles/pts)
vec maxf	Vector Maximum Value (floating point data)	N=200	112 (0.6 cycles/pts)
vec bexpf	Common Exponent (floating point input data)	N=200	127 (0.6 cycles/pts)
scl bexpf	Exponent (floating point input data)		7 (cycles)
	Exponent (nearing point input data)		, (0,0100)
Emulated Floating Point Operations			
vec add 32x16ef	Vector Addition (emulated floating point)	N=200	1451 (7.3 cycles/pts)
vec_mul_32x16ef	Vector Multiply (emulated floating point)	N=200	1033 (5.2 cycles/pts)
vec_mac_32x16ef	Vector Multiply-Accumulate (emulated floating point)	N=200	2026 (10.1 cycles/pts)
vec_dot_32x16ef	Vector Dot product (emulated floating point)	N=200	1076 (5.4 cycles/pts)
scl_add_32x16ef	Scalar Addition (emulated floating point)		23 (cycles)
scl_mul_32x16ef	Scalar Multiply (emulated floating point)		13 (cycles)
scl_mac_32x16ef	Scalar Multiply-Accumulate (emulated floating point)		27 (cycles)
Matrix Operations			
mtx_mpy8x8	Matrix Multiply (8-bit data)	16x16 x 16x16	4364 (0.9 MACs/cycle)
mtx mpy8x8	Matrix Multiply (8-bit data)	32x32 x 32x32	28290 (1.2 MACs/cycle)

		luaatiaa	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
mtx_mpy8x8_fast	Fast Matrix Multiply (8-bit data)	16x16 x 16x16	2093 (2.0 MACs/cycle)
mtx_mpy8x8_fast	Fast Matrix Multiply (8-bit data)	32x32 x 32x32	12381 (2.6 MACs/cycle)
mtx_mpy8x8_fast	Fast Matrix Multiply (8-bit data)	8x80 x 80x4	853 (3.0 MACs/cycle)
mtx_mpyt8x8	Matrix Multiply Transpose (8-bit data)	16x16 x 16x16	4642 (0.9 MACs/cycle)
mtx_mpyt8x8	Matrix Multiply Transpose (8-bit data)	32x32 x 32x32	29327 (1.1 MACs/cycle)
mtx_mpyt8x8_fast	Fast Matrix Multiply Transpose (8-bit data)	16x16 x 16x16	1766 (2.3 MACs/cycle)
mtx_mpyt8x8_fast	Fast Matrix Multiply Transpose (8-bit data)	32x32 x 32x32	10327 (3.2 MACs/cycle)
mtx_mpyt8x8_fast	Fast Matrix Multiply Transpose (8-bit data)	8x80 x 80x4	702 (3.6 MACs/cycle)
mtx_mpy8x16	Matrix Multiply (8/16-bit data)	16x16 x 16x16	3223 (1.3 MACs/cycle)
mtx_mpy8x16	Matrix Multiply (8/16-bit data)	32x32 x 32x32	17974 (1.8 MACs/cycle)
mtx_mpy8x16_fast	Fast Matrix Multiply (8/16-bit data)	16x16 x 16x16	1679 (2.4 MACs/cycle)
mtx_mpy8x16_fast	Fast Matrix Multiply (8/16-bit data)	32x32 x 32x32	10575 (3.1 MACs/cycle)
mtx_mpy8x16_fast	Fast Matrix Multiply (8/16-bit data)	8x80 x 80x4	748 (3.4 MACs/cycle)
mtx_mpyt8x16	Matrix Multiply Transpose (8/16-bit data)	16x16 x 16x16	3139 (1.3 MACs/cycle)
mtx_mpyt8x16	Matrix Multiply Transpose (8/16-bit data)	32x32 x 32x32	13247 (2.5 MACs/cycle)
mtx_mpyt8x16_fast	Fast Matrix Multiply Transpose (8/16-bit data)	16x16 x 16x16	1436 (2.9 MACs/cycle)
mtx_mpyt8x16_fast	Fast Matrix Multiply Transpose (8/16-bit data)	32x32 x 32x32	8192 (4.0 MACs/cycle)
mtx_mpyt8x16_fast	Fast Matrix Multiply Transpose (8/16-bit data)	8x80 x 80x4	529 (4.8 MACs/cycle)
mtx_mpy16x16	Matrix Multiply (16-bit data)	16x16 x 16x16	1701 (2.4 MACs/cycle)
mtx_mpy16x16	Matrix Multiply (16-bit data)	32x32 x 32x32	8427 (3.9 MACs/cycle)
mtx_mpy16x16_fast	Fast Matrix Multiply (16-bit data)	16x16 x 16x16	1679 (2.4 MACs/cycle)
mtx_mpy16x16_fast	Fast Matrix Multiply (16-bit data)	32x32 x 32x32	10576 (3.1 MACs/cycle)
mtx_mpy16x16_fast	Fast Matrix Multiply (16-bit data)	8x80 x 80x4	747 (3.4 MACs/cycle)
mtx_mpyt16x16	Matrix Multiply Transpose (16-bit data)	16x16 x 16x16	1554 (2.6 MACs/cycle)
mtx_mpyt16x16	Matrix Multiply Transpose (16-bit data)	32x32 x 32x32	7862 (4.2 MACs/cycle)
mtx_mpyt16x16_fast	Fast Matrix Multiply Transpose (16-bit data)	16x16 x 16x16	1468 (2.8 MACs/cycle)
mtx_mpyt16x16_fast	Fast Matrix Multiply Transpose (16-bit data)	32x32 x 32x32	7808 (4.2 MACs/cycle)
mtx_mpyt16x16_fast	Fast Matrix Multiply Transpose (16-bit data)	8x80 x 80x4	469 (5.5 MACs/cycle)
mtx_mpy32x32	Matrix Multiply (32-bit data)	16x16 x 16x16	2870 (1.4 MACs/cycle)
mtx_mpy32x32	Matrix Multiply (32-bit data)	32x32 x 32x32	14838 (2.2 MACs/cycle)
mtx_mpy32x32_fast	Fast Matrix Multiply (32-bit data)	16x16 x 16x16	1838 (2.2 MACs/cycle)
mtx_mpy32x32_fast	Fast Matrix Multiply (32-bit data)	32x32 x 32x32	11822 (2.8 MACs/cycle)
mtx_mpy32x32_fast	Fast Matrix Multiply (32-bit data)	8x80 x 80x4	824 (3.1 MACs/cycle)
mtx_mpyt32x32	Matrix Multiply Transpose (32-bit data)	16x16 x 16x16	3492 (1.2 MACs/cycle)
mtx_mpyt32x32	Matrix Multiply Transpose (32-bit data)	32x32 x 32x32	19556 (1.7 MACs/cycle)
mtx_mpyt32x32_fast	Fast Matrix Multiply Transpose (32-bit data)	16x16 x 16x16	1711 (2.4 MACs/cycle)
mtx_mpyt32x32_fast	Fast Matrix Multiply Transpose (32-bit data)	32x32 x 32x32	10768 (3.0 MACs/cycle)
mtx_mpyt32x32_fast	Fast Matrix Multiply Transpose (32-bit data)	8x80 x 80x4	747 (3.4 MACs/cycle)
mtx_vecmpy8x8_fast	Fast Matrix by Vector Multiply (8-bit data)	16x104 x 104x1	400 (4.2 MACs/cycle)
mtx_vecmpy8x16_fast mtx_vecmpy16x16_fas	Fast Matrix by Vector Multiply (8/16-bit data)	16x104 x 104x1	333 (5.0 MACs/cycle)
t	Fast Matrix by Vector Multiply (16-bit data)	16x104 x 104x1	327 (5.1 MACs/cycle)
mtx_vecmpy32x32_fas t	Fast Matrix by Vector Multiply (32-bit data)	16x104 x 104x1	598 (2.8 MACs/cycle)
mtx_transpose8x8	Matrix transpose (8-bit data)	M=32, N=32	2277 (0.45 pts/cycle)
mtx_transpose8x8_fa st	Fast Matrix transpose (8-bit data)	M=32, N=32	586 (1.75 pts/cycle)
mtx_transpose16x16	Matrix transpose (16-bit data)	M=32, N=32	1630 (0.63 pts/cycle)
mtx_transpose16x16_ fast	Fast Matrix transpose (16-bit data)	M=32, N=32	567 (1.81 pts/cycle)
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		Investion	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
mtx_transpose32x32	Matrix transpose (32-bit data)	M=32, N=32	1502 (0.68 pts/cycle)
mtx_transpose32x32_ fast	Fast Matrix transpose (32-bit data)	M=32, N=32	876 (1.17 pts/cycle)
mtx mpyf	Matrix Multiply (floating point data)	16x16 x 16x16	1909 (2.1 MACs/cycle)
mtx mpyf	Matrix Multiply (floating point data)	32x32 x 32x32	13002 (2.5 MACs/cycle)
mtx mpyf fast	Fast Matrix Multiply (floating point data)	16x16 x 16x16	2077 (2.0 MACs/cycle)
mtx_mpyf_fast	Fast Matrix Multiply (floating point data)	32x32 x 32x32	13260 (2.5 MACs/cycle)
mtx_mpyf_fast	Fast Matrix Multiply (floating point data)	8x16 x 16x4	278 (1.8 MACs/cycle)
mtx_mpytf	Matrix Multiply Transpose (floating point data)	16x16 x 16x16	2065 (2.0 MACs/cycle)
mtx_mpytf	Matrix Multiply Transpose (floating point data)	32x32 x 32x32	11957 (2.7 MACs/cycle)
mtx_mpytf_fast	Fast Matrix Multiply Transpose (floating point data)	16x16 x 16x16	2005 (2.0 MACs/cycle)
mtx_mpytf_fast	Fast Matrix Multiply Transpose (floating point data)	32x32 x 32x32	11933 (2.7 MACs/cycle)
mtx_mpytf_fast	Fast Matrix Multiply Transpose (floating point data)	8x16 x 16x4	271 (1.9 MACs/cycle)
mtx_vecmpyf_fast	Fast Matrix by Vector Multiply (floating point data)	16x104 x 104x1	634 (2.6 MACs/cycle)
mtx_transposef	Matrix transpose (floating point data)	M=32, N=32	1508 (0.68 pts/cycle)
mtx_transposef_fast	Fast Matrix transpose (floating point data)	M=32, N=32	884 (1.16 pts/cycle)
Matrix Decomposition and Inversion			
cmtx_inv2x2_32x32	Gauss-Jordan matrix inversion (complex 32-bit fixed-point data)		366 (366.0 cycles/matrix)
cmtx_inv4x4_32x32	Gauss-Jordan matrix inversion (complex 32-bit fixed-point data)		1240 (1240.0 cycles/matrix)
cmtx_inv8x8_32x32	Gauss-Jordan matrix inversion (complex 32-bit fixed-point data)		6524 (6524.0 cycles/matrix)
mtx_inv2x2_32x32	Gauss-Jordan matrix inversion (32-bit fixed-point data)		38 (38.0 cycles/matrix)
mtx_inv4x4_32x32	Gauss-Jordan matrix inversion (32-bit fixed-point data)		668 (668.0 cycles/matrix)
mtx_inv8x8_32x32	Gauss-Jordan matrix inversion (32-bit fixed-point data)		3266 (3266.0 cycles/matrix)
cmtx_gjelim2x2_32x3 2	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		319 (319.0 cycles/matrix)
cmtx_gjelim4x4_32x3 2	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		993 (993.0 cycles/matrix)
cmtx_gjelim8x8_32x3 2	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		3864 (3864.0 cycles/matrix)
mtx_gjelim2x2_32x32	Gauss-Jordan linear equations solver (32-bit fixed-point data)		38 (38.0 cycles/matrix)
mtx_gjelim4x4_32x32	Gauss-Jordan linear equations solver (32-bit fixed-point data)		593 (593.0 cycles/matrix)
mtx_gjelim8x8_32x32	Gauss-Jordan linear equations solver (32-bit fixed-point data)		2454 (2454.0 cycles/matrix)
mtx_inv2x2f	Gauss-Jordan matrix inversion (floating point data)		32 (32.0 cycles/matrix)
mtx_inv4x4f	Gauss-Jordan matrix inversion (floating point data)		276 (276.0 cycles/matrix)
mtx_inv8x8f	Gauss-Jordan matrix inversion (floating point data)		1722 (1722.0 cycles/matrix)
Fitting and			
Interpolation Polynomial Fitting			
vec poly4 32x32	Polynomial approximation (32-bit data)	N=200	401 (2.0 cycles/pts)
vec_poly4_32x32	Polynomial approximation (32-bit data)	N=200	648 (3.2 cycles/pts)
vec_poly6_32x32	Polynomial approximation (52-5it data)	N=200	408 (2.0 cycles/pts)
vec_poly8f	Polynomial approximation (floating point data)	N=200	788 (3.9 cycles/pts)
FFT Routines			
Complex FFT	EET on Complay Data (16 hit input/outputs 16 hit tuiddles)	N=4096,	20721 (0.106 pt-/1-)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=4096,	38731 (0.106 pts/cycle)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	scaling=2	45318 (0.090 pts/cycle)

		Investion	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	37458 (0.109 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	39635 (0.103 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=3	34004 (0.120 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=2	38640 (0.106 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	38998 (0.105 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	45340 (0.090 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	37460 (0.109 pts/cycle)
ifft cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	40672 (0.101 pts/cycle)
ifft cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=3	35519 (0.115 pts/cycle)
ifft cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=2	37614 (0.109 pts/cycle)
Real FFT	twiddles)	scaling-2	37614 (0.109 pts/cycle)
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	22534 (0.182 pts/cycle)
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	25335 (0.162 pts/cycle)
fft_real32x16	FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	20663 (0.198 pts/cycle)
fft_real32x16	FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2 N=8192,	21665 (0.189 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=3 N=8192,	41224 (0.199 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	scaling=2 N=4096,	46895 (0.175 pts/cycle)
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=4096,	22684 (0.181 pts/cycle)
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	scaling=2 N=4096,	26905 (0.152 pts/cycle)
ifft_real32x16	Inverse FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	scaling=3 N=4096,	21642 (0.189 pts/cycle)
ifft_real32x16	Inverse FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	scaling=2 N=8192,	23680 (0.173 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	scaling=3 N=8192,	43774 (0.187 pts/cycle)
ifft_real32x32 Mixed Radix Complex FFT	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	scaling=2	46899 (0.175 pts/cycle)
fft cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	9195 (0.104 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	10788 (0.089 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	9534 (0.101 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	10549 (0.091 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4639 (0.103 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	4930 (0.097 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4335 (0.111 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	4936 (0.097 pts/cycle)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4087 (0.117 pts/cycle)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	5155 (0.093 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4162 (0.115 pts/cycle)
ifft cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	5185 (0.093 pts/cycle)

fft_real32x32 FFT on Real Data ifft_real32x32 Inverse FFT on R ifft_real32x32 Inverse FFT on R fft_real32x16 FFT on Real Data ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R ifft_real32x16 FFT on Real Data	a (32-bit input/outputs, 32-bit twiddles) a (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) a (32-bit input/outputs, 16-bit twiddles) a (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles) eal Data (16-bit input/outputs, 16-bit twiddles) eal Data (16-bit input/outputs, 16-bit twiddles)	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5 6268 (0.153 pts/cycle) 7258 (0.132 pts/cycle) 6557 (0.146 pts/cycle) 7263 (0.132 pts/cycle) 2606 (0.184 pts/cycle) 2786 (0.172 pts/cycle) 2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle) 2631 (0.182 pts/cycle)
fft_real32x32 FFT on Real Data fft_real32x32 FFT on Real Data ifft_real32x32 Inverse FFT on Real Data ifft_real32x32 FFT on Real Data fft_real32x16 FFT on Real Data ifft_real32x16 Inverse FFT on Real Data ifft_real32x16 Inverse FFT on Real Data ifft_real32x16 Inverse FFT on Real Data ifft_real32x16 FFT on Real Data	eal Data (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) ea (32-bit input/outputs, 16-bit twiddles) ea (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) ea (16-bit input/outputs, 16-bit twiddles) ea (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=960, scaling=2 N=960, scaling=3 N=960, scaling=2 N=480, scaling=3 N=480, scaling=3 N=480, scaling=2 N=480, scaling=2 N=480, scaling=3 N=480, scaling=3 N=480,	7258 (0.132 pts/cycle) 6557 (0.146 pts/cycle) 7263 (0.132 pts/cycle) 2606 (0.184 pts/cycle) 2786 (0.172 pts/cycle) 2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle)
fft_real32x32 FFT on Real Data ifft_real32x32 Inverse FFT on R ifft_real32x32 Inverse FFT on R fft_real32x16 FFT on Real Data ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R ifft_real32x16 FFT on Real Data	eal Data (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) ea (32-bit input/outputs, 16-bit twiddles) ea (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) ea (16-bit input/outputs, 16-bit twiddles) ea (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=960, scaling=2 N=960, scaling=3 N=960, scaling=2 N=480, scaling=3 N=480, scaling=3 N=480, scaling=2 N=480, scaling=2 N=480, scaling=3 N=480, scaling=3 N=480,	7258 (0.132 pts/cycle) 6557 (0.146 pts/cycle) 7263 (0.132 pts/cycle) 2606 (0.184 pts/cycle) 2786 (0.172 pts/cycle) 2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle)
fft_real32x32 FFT on Real Data ifft_real32x32 Inverse FFT on R ifft_real32x32 Inverse FFT on R fft_real32x16 FFT on Real Data ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R ifft_real32x16 FFT on Real Data	eal Data (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) eal Data (32-bit input/outputs, 32-bit twiddles) ea (32-bit input/outputs, 16-bit twiddles) ea (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) ea (16-bit input/outputs, 16-bit twiddles) ea (16-bit input/outputs, 16-bit twiddles)	scaling=2 N=960, scaling=3 N=960, scaling=2 N=480, scaling=3 N=480, scaling=3 N=480, scaling=2 N=480, scaling=3 N=480, scaling=3 N=480,	6557 (0.146 pts/cycle) 7263 (0.132 pts/cycle) 2606 (0.184 pts/cycle) 2786 (0.172 pts/cycle) 2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle)
ifft_real32x32 Inverse FFT on Real Data fft_real32x16 FFT on Real Data ifft_real32x16 FFT on Real Data ifft_real32x16 Inverse FFT on Real Data ifft_real32x16 Inverse FFT on Real Data fft_real16x16 FFT on Real Data	eal Data (32-bit input/outputs, 32-bit twiddles) a (32-bit input/outputs, 16-bit twiddles) a (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=960, scaling=2 N=480, scaling=3 N=480, scaling=2 N=480, scaling=3 N=480, scaling=2 N=480, scaling=3 N=480,	7263 (0.132 pts/cycle) 2606 (0.184 pts/cycle) 2786 (0.172 pts/cycle) 2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle)
fft_real32x16 FFT on Real Data fft_real32x16 FFT on Real Data ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R fft_real16x16 FFT on Real Data	a (32-bit input/outputs, 16-bit twiddles) a (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles)	scaling=2 N=480, scaling=3 N=480, scaling=2 N=480, scaling=3 N=480, scaling=2 N=480, scaling=3 N=480,	2606 (0.184 pts/cycle) 2786 (0.172 pts/cycle) 2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle)
fft_real32x16 FFT on Real Data ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R fft_real16x16 FFT on Real Data	a (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=480, scaling=2 N=480, scaling=3 N=480, scaling=2 N=480, scaling=3 N=480,	2786 (0.172 pts/cycle) 2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle)
ifft_real32x16 Inverse FFT on R ifft_real32x16 Inverse FFT on R fft_real16x16 FFT on Real Data	eal Data (32-bit input/outputs, 16-bit twiddles) eal Data (32-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles)	scaling=2 N=480, scaling=3 N=480, scaling=2 N=480, scaling=3 N=480,	2533 (0.189 pts/cycle) 2922 (0.164 pts/cycle)
ifft_real32x16	eal Data (32-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=480, scaling=2 N=480, scaling=3 N=480,	2922 (0.164 pts/cycle)
fft_real16x16 FFT on Real Data	a (16-bit input/outputs, 16-bit twiddles) a (16-bit input/outputs, 16-bit twiddles)	scaling=2 N=480, scaling=3 N=480,	
	a (16-bit input/outputs, 16-bit twiddles)	scaling=3 N=480,	2631 (0.182 pts/cycle)
fft_real16x16 FFT on Real Data			
	eal Data (16-bit input/outputs, 16-bit twiddles)		3069 (0.156 pts/cycle)
ifft_real16x16 Inverse FFT on R		N=480, scaling=3	2692 (0.178 pts/cycle)
	eal Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	3296 (0.146 pts/cycle)
Complex FFT with Optimized Memory			
fft cplx16x16 ie FFT on Complex input/outputs, 16-	Data with Optimized Memory Usage (16-bit bit twiddles)	N=1024	10213 (0.100 pts/cycle)
FFT on Complex input/outputs, 16-	Data with Optimized Memory Usage (32-bit	N=1024, scaling=3	10005 (0.102 pts/cycle)
FFT on Complex	Data with Optimized Memory Usage (32-bit	N=1024,	
	Data with Optimized Memory Usage (32-bit	scaling=2 N=1024,	10596 (0.097 pts/cycle)
fft_cplx32x32_ie input/outputs, 32- FFT on Complex	bit twiddles) Data with Optimized Memory Usage (32-bit	scaling=3 N=1024,	7440 (0.138 pts/cycle)
fft cplx32x32 ie input/outputs, 32-		scaling=2	8880 (0.115 pts/cycle)
ifft cplx16x16 ie bit input/outputs,	16-bit twiddles)	N=1024	10209 (0.100 pts/cycle)
ifft cplx32x16 ie bit input/outputs,	omplex Data with Optimized Memory Usage (32- 16-bit twiddles)	N=1024, scaling=3	10269 (0.100 pts/cycle)
ifft cplx32x16 ie Inverse FFT on C	omplex Data with Optimized Memory Usage (32- 16-bit twiddles)	N=1024, scaling=2	11653 (0.088 pts/cycle)
ifft cplx32x32 ie Inverse FFT on C	omplex Data with Optimized Memory Usage (32- 32-bit twiddles)	N=1024, scaling=3	7808 (0.131 pts/cycle)
Inverse FFT on C	omplex Data with Optimized Memory Usage (32-	N=1024,	
stereo fft cplx16x1 FFT on Stereo Co	omplex Data with Optimized Memory Usage (16-	scaling=2	8630 (0.119 pts/cycle)
6_ie bit input/outputs, stereo fft cplx32x1 FFT on Stereo Co	16-bit twiddles) complex Data with Optimized Memory Usage (32-	N=1024 N=1024,	17271 (0.059 pts/cycle)
6_ie bit input/outputs,	16-bit twiddles) pmplex Data with Optimized Memory Usage (32-	scaling=3 N=1024,	18518 (0.055 pts/cycle)
6_ie bit input/outputs,		scaling=2	18916 (0.054 pts/cycle)
2_ie bit input/outputs,	32-bit twiddles)	N=1024, scaling=3	19273 (0.053 pts/cycle)
2_ie bit input/outputs,		N=1024, scaling=2	21303 (0.048 pts/cycle)
	tereo Complex Data with Optimized Memory ut/outputs, 16-bit twiddles)	N=1024	17480 (0.059 pts/cycle)
stereo ifft cplx32x Inverse FFT on S	tereo Complex Data with Optimized Memory ut/outputs, 16-bit twiddles)	N=1024, scaling=3	
stereo ifft cplx32x Inverse FFT on S	tereo Complex Data with Optimized Memory	N=1024,	17767 (0.058 pts/cycle)
stereo ifft cplx32x Inverse FFT on S	ut/outputs, 16-bit twiddles) tereo Complex Data with Optimized Memory	scaling=2 N=1024,	18165 (0.056 pts/cycle)
32_ie Usage (32-bit inp	ut/outputs, 32-bit twiddles) tereo Complex Data with Optimized Memory	scaling=3 N=1024,	19780 (0.052 pts/cycle)
32_ie Usage (32-bit inp	ut/outputs, 32-bit twiddles) Data with Optimized Memory Usage (floating	scaling=2	22208 (0.046 pts/cycle)
fft_cplxf_ie point data)	Data with Optimized Memory Usage (moating	N=4096	64068 (0.064 pts/cycle)

			Invocation	Cycles Measurements
International Continues of the Continu	Function Name	Description		RG2018.9, HiFi4 with VFPU, bd5
FFF on Serve Complex Date with Optimized Memory Usage N=4096 117825 (1.035 pts/cycle)				
	ifft_cplxf_ie		N=4096	64242 (0.064 pts/cycle)
Memory M	stereo_fft_cplxf_ie		N=4096	117825 (0.035 pts/cycle)
Real FIT with Optimized Memory FIT on Real Data with Optimized Memory Usage (16-bit input/outputs, 16-bit Moddles) FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit Moddles) FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit Moddles) FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit Moddles) FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles) Inverse FIT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit Moddles)	stereo_ifft_cplxf_i		4000	
FFT on Real Data with Optimized Memory Usage (16-bit injutiouputs, 16-bit Models)	e Real FFT with Ontimized	Usage (floating point data)	N=4096	120555 (0.034 pts/cycle)
### Committed 19				
FFT on Real Data with Optimized Memory Usage (32-bit septimized) Section	661		N 1004	6356 (0.161) (0.17)
Eff to real 22x16 10 Employupus, 16-bit Woldels Eff to Real Data with Optimized Memory Usage (32-bit 12-bit	IIT_reallox16_1e	FFT on Real Data with Optimized Memory Usage (32-bit		6356 (U.161 pts/cycle)
February	fft_real32x16_ie	input/outputs, 16-bit twiddles)		6106 (0.168 pts/cycle)
FFT on Real Data with Optimized Memory Usage (32-bit specifically as a conting 2 Salid (0.193 pts/cycle)	fft roal32v16 io		'	6357 (0 161 ptg/gyglo)
### FTO FROM EARLY WINDOWS AND STATE AND STATE OF FTO TRANSPORT OF FTO TRANSPORT OF	IIC_fedi32x10_fe			6337 (0.161 pts/cycle)
fft reali2xx2 le	fft_real32x32_ie	input/outputs, 32-bit twiddles)		5314 (0.193 pts/cycle)
Inverse FT on Real Data with Optimized Memory Usage (16-bit input/outputs (16-bit widdles) N=1024 6625 (0.155 pts/cycle)	fft real32x32 ie			6578 (0 156 pts/cycle)
Inverse FTT on Real Data with Optimized Memory Usage (32-bit purplications) Inverse FTT on Real Data with Optimized Memory Usage (32-bit input/doutputs, 61-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (32-bit input/doutputs, 61-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (32-bit input/doutputs, 61-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (32-bit input/doutputs, 61-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (32-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 62-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 16-bit widdles) Inverse FTT on Real Data with Optimized Memory Usage (10-bit input/doutputs, 16-bit widdles) Inverse World input/doutputs, 16-bit inpu		Inverse FFT on Real Data with Optimized Memory Usage (16-bit	Journal L	0070 (0:100 pcs, 0;010)
Introductions Interest Modified	ifft_real16x16_ie			6625 (0.155 pts/cycle)
Inverse FFT on Real Data with Optimized Memory Usage (32-bit purply (32-bit pur	ifft real32x16 ie			6286 (0.163 pts/cycle)
Intrace Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit widdles) Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit widdles) N=1024, scalling=3 S358 (0.191 pts/cycle)		Inverse FFT on Real Data with Optimized Memory Usage (32-bit	N=1024,	
Intro treal 32x32 Lest Impuloutputs, 32-bit twiddles) Inverse FFT on Real Data with Optimized Memory Usage (32-bit N=1024, scaling=2 6385 (0.160 pts/cycle)	ifft_real32x16_ie			7571 (0.135 pts/cycle)
inftr real32x32 ie input/outputs, 32-bit twiddles) FFT on Real Data with Optimized Memory Usage (floating point data) N=4096	ifft real32x32 ie			5358 (0.191 pts/cycle)
FFT on Real Data with Optimized Memory Usage (floating point data) Inverse FFT on Real Data with Optimized Memory Usage (floating point data) Inverse FFT on Real Data with Optimized Memory Usage (floating point data) N=4096 32117 (0.128 pts/cycle)			. ,	
Modified Discrete Cosine Transform, Type IV (32-bit input/outputs, 16-bit widdles) Modified Discrete Cosine Transform (32-bit input/outputs, 1	ifft_real32x32_ie		scaling=2	6385 (0.160 pts/cycle)
Detail	fft_realf_ie	data)	N=4096	32117 (0.128 pts/cycle)
Discrete Cosine Transform, Type II (32-bit input/outputs, 16-bit widdles) Discrete Cosine Transform, Type II (32-bit input/outputs, 32-bit twiddles) Discrete Cosine Transform, Type II (16-bit input/outputs, 16-bit widdles) Discrete Cosine Transform, Type II (16-bit input/outputs, 16-bit widdles) Discrete Cosine Transform, Type IV (32-bit input/outputs, 16-bit widdles) Discrete Cosine Transform, Type IV (32-bit input/outputs, 16-bit widdles) Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit widdles) Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit widdles) Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit widdles) Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit widdles) Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit widdles) Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit widdles) Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit input/ou	1.661		N 4006	21700 (0.100) (0.10)
Discrete Cosine Transform, Type II (32-bit input/outputs, 16-bit widdles)		point data)	N=4096	31786 (U.129 pts/cycle)
Discrete Cosine Transform, Type II (32-bit input/outputs, 32-bit twiddles) N=32, ScalingOpt=3 153 (cycles)	DCT	Discrete Cosine Transform, Type II (32-bit input/outputs, 16-bit	N=32.	
Discrete Cosine Transform, Type II (16-bit input/outputs, 16-bit twiddles) ScalingOpt=3 206 (cycles)	dct_32x16	twiddles)		153 (cycles)
Discrete Cosine Transform, Type II (16-bit input/outputs, 16-bit twiddles)	dct 32x32			173 (cycles)
Discrete Cosine Transform, Type IV (32-bit input/outputs, 16-bit twiddles) Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit twiddles) Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit twiddles) Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles) Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles) Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles) Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles) Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit scalingopt=3 368 (cycles) N=32, scalingopt=3 368 (cycles) N=32, scalingopt=3 338 (cycles) N=32, scalingopt=3 338 (cycles) N=32, scalingopt=3 338 (cycles) N=32, scalingopt=3 338 (cycles) N=32, scalingopt=3 372 (cycles) N=32, scalingopt=3 372 (cycles) N=32, scalingopt=4 Scalingopt=3 372 (cycles) N=32, scalingopt=6 265228 (259.0 cycles/block) Discrete Cosine Transform (16-bit signed input, 16-bit signed input, 8-bit unsigned output) Discrete Cosine Transform, Type II (floating point data) FFT power spectrum functions FFT power Spectrum (complex 16-bit data) N=64 477 (cycles) N=1024 [mode=0 bexp=-1] 9826 (0.10 pts/cycle) N=1024 [mode=0 bexp=-1] 12605 (0.08 pts/cycle) FFT Power Spectrum (complex 32-bit data) FFT Power Spectrum (complex 16-bit data, single precision) MFCC features	_	Discrete Cosine Transform, Type II (16-bit input/outputs, 16-bit	N=32,	-
dct4 32x16 twiddles Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit twiddles) N=32, scalingOpt=3 321 (cycles)	dct_16x16			206 (cycles)
dct4 32x32twiddles)scalingOpt=3271 (cycles)Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit widdles)N=32, scalingOpt=3332 (cycles)Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit widdles)N=32, 	dct4_32x16			238 (cycles)
mdct 32x16Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles)N=32, scalingOpt=3332 (cycles)mdct 32x32Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)N=32, scalingOpt=3368 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles)N=32, scalingOpt=3338 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)N=32, scalingOpt=3338 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)N=32, scalingOpt=3372 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)N=32, scalingOpt=3372 (cycles)2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output, scalingOpt=0N=8, L=1024, scalingOpt=0265228 (259.0 cycles/block)2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output)N=8, L=1024, scalingOpt=0263183 (257.0 cycles/block)3-8, L=1024, scalingOpt=0263183 (257.0 cycles/block)3-1024 [mode=0]N=64477 (cycles)3-1024 [mode=0]P826 (0.10 pts/cycle)3-1024 [mode=0]P826 (0.10 pts/cycle)3-1024 [mode=0]P826 (0.08 pts/cycle)3-1024 [mode=0]P826 (0.08 pts/cycle)	1.14.20.20			071 (
mdct_32x16twiddles)scalingOpt=3332 (cycles)mdct_32x32Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit widdles)N=32, scalingOpt=3368 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, indict_32x1616-bit twiddles)N=32, scalingOpt=3338 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)N=32, scalingOpt=3372 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)N=32, scalingOpt=3372 (cycles)2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output)N=8, L=1024, scalingOpt=0265228 (259.0 cycles/block)dct2d 8x16Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output)N=8, L=1024, scalingOpt=0265183 (257.0 cycles/block)dctfDiscrete Cosine Transform, Type II (floating point data)N=64477 (cycles)FFT power spectrum functionsN=1024 [mode=0]9826 (0.10 pts/cycle)fft_spectrum32x32FFT Power Spectrum (complex 16-bit data)N=1024 [mode=0]9826 (0.10 pts/cycle)fft_spectrumfFFT Power Spectrum (complex floating-point data, single precision)N=1024 [mode=0]18268 (0.06 pts/cycle)	act4_32x32			2/1 (cycles)
mdct_32x32twiddles)scalingOpt=3368 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles)N=32, scalingOpt=3338 (cycles)Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)N=32, scalingOpt=3372 (cycles)2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output)N=8, L=1024, scalingOpt=0265228 (259.0 cycles/block)dct2d 16x8Unsigned output)N=8, L=1024, scalingOpt=0263183 (257.0 cycles/block)dctfDiscrete Cosine Transform, Type II (floating point data)N=64477 (cycles)FFT power spectrum functionsfft_spectrum16x32FFT Power Spectrum (complex 16-bit data)N=1024 [mode=0 bexp=-1]9826 (0.10 pts/cycle)fft_spectrum32x32FFT Power Spectrum (complex 32-bit data)N=1024 [mode=0 bexp=-1]12605 (0.08 pts/cycle)MFCC featuresN=1024 [mode=0]18268 (0.06 pts/cycle)	mdct_32x16	twiddles)		332 (cycles)
Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles) Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles) Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles) 2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output) 2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 372 (cycles) N=8, L=1024, scalingOpt=0 265228 (259.0 cycles/block) N=8, L=1024, scalingOpt=0 263183 (257.0 cycles/block) N=64 477 (cycles) FFT power spectrum functions FFT Power Spectrum (complex 16-bit data) N=1024 [mode=0] bexp=-1] PFT Power Spectrum (complex 32-bit data) FFT Power Spectrum (complex floating-point data, single precision) N=1024 [mode=0]	mdct 32v32	· · · · · · · · · · · · · · · · · · ·		368 (cycles)
Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles) 2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output) 2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 3-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 3-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 3-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 3-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output, 8-bit unsigned input, 8-bit unsigned output, 8-bi				(0,0100)
imdct_32x3232-bit twiddles)scalingOpt=3372 (cycles)2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output)N=8, L=1024, scalingOpt=0265228 (259.0 cycles/block)2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output)N=8, L=1024, scalingOpt=0263183 (257.0 cycles/block)dctfDiscrete Cosine Transform, Type II (floating point data)N=64477 (cycles)FFT power spectrum functionsN=1024 [mode=0]9826 (0.10 pts/cycle)fft_spectrum32x32FFT Power Spectrum (complex 16-bit data)N=1024 [mode=0]12605 (0.08 pts/cycle)FFT Power Spectrum (complex floating-point data, single precision)N=1024 [mode=0]18268 (0.06 pts/cycle)	imdct_32x16			338 (cycles)
2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output) 2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) 3-B	imdct_32x32	32-bit twiddles)		372 (cycles)
2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output) dctf Discrete Cosine Transform, Type II (floating point data) FFT power spectrum functions FFT Power Spectrum (complex 16-bit data) FFT Power Spectrum (complex 16-bit data) FFT Power Spectrum (complex 32-bit data) FFT Power Spectrum (complex 32-bit data) FFT Power Spectrum (complex floating-point data, single precision) FFT Power Spectrum (complex floating-point data, single precision) N=1024 [mode=0] bexp=-1] 12605 (0.08 pts/cycle) N=1024 [mode=0] 18268 (0.06 pts/cycle)		, , , , , , , , , , , , , , , , , , , ,		
idct2d 16x8 unsigned output) scalingOpt=0 263183 (257.0 cycles/block) dctf Discrete Cosine Transform, Type II (floating point data) N=64 477 (cycles) FFT power spectrum functions N=1024 [mode=0 bexp=-1] 9826 (0.10 pts/cycle) fft spectrum32x32 FFT Power Spectrum (complex 32-bit data) N=1024 [mode=0 bexp=-1] 12605 (0.08 pts/cycle) FFT Power Spectrum (complex floating-point data, single precision) N=1024 [mode=0] 18268 (0.06 pts/cycle)	dct2d_8x16			265228 (259.0 cycles/block)
FFT power spectrum functions N=1024[mode=0 bexp=-1] 9826 (0.10 pts/cycle)	idct2d_16x8			263183 (257.0 cycles/block)
functions N=1024 [mode=0 bexp=-1] 9826 (0.10 pts/cycle) fft_spectrum32x32 FFT Power Spectrum (complex 32-bit data) N=1024 [mode=0 bexp=-1] 12605 (0.08 pts/cycle) FFT Power Spectrum (complex floating-point data, single precision) N=1024 [mode=0] 18268 (0.06 pts/cycle)		Discrete Cosine Transform, Type II (floating point data)	N=64	477 (cycles)
fft_spectrum16x32 FFT Power Spectrum (complex 16-bit data) N=1024 [mode=0 bexp=-1] bexp=-1] 9826 (0.10 pts/cycle) fft_spectrum32x32 FFT Power Spectrum (complex 32-bit data) N=1024 [mode=0 bexp=-1] bexp=-1] 12605 (0.08 pts/cycle) fft_spectrumf FFT Power Spectrum (complex floating-point data, single precision) N=1024 [mode=0] 18268 (0.06 pts/cycle)				
fft_spectrum32x32 FFT Power Spectrum (complex 32-bit data) N=1024 [mode=0 bexp=-1] 12605 (0.08 pts/cycle) fft_spectrum (precision) FFT Power Spectrum (complex floating-point data, single precision) N=1024 [mode=0] 18268 (0.06 pts/cycle)		FET Dower Spectrum (compley 16 bit data)		0026 (0.10 ptg/c3-)
FFT Power Spectrum (complex floating-point data, single precision) MFCC features FFT Power Spectrum (complex floating-point data, single precision) N=1024[mode=0] 18268 (0.06 pts/cycle)				
fft_spectrumf precision) N=1024[mode=0] 18268 (0.06 pts/cycle) MFCC features	fft_spectrum32x32		bexp=-1]	12605 (0.08 pts/cycle)
	fft_spectrumf		N=1024[mode=0]	18268 (0.06 pts/cycle)
	MFCC features extraction			

		Incorption	Cycles Measurements
Function Name	Description	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
		Fs: 16000;	
		fftSize: 512;	
		Range: 133.3- 6853.8 Hz;	
	Compute log mel filterbank energies (32-bit fixed-point input/output	Bands: 20;	
logme132x32_process	data)	Flavor: HTK	2768 (cycles per STFT hop)
		Fs: 16000;	
		fftSize: 512; Range: 133.3-	
		6853.8 Hz;	
	Compute log mal filterhank aparaiga (22 hit fixed point input/output	Bands: 40;	
logme132x32 process	Compute log mel filterbank energies (32-bit fixed-point input/output data)	Flavor: AUDITORY	3/32 (gualog por STET bon)
process	l data)	Fs: 16000;	3432 (cycles per STFT hop)
		fftSize: 512;	
		Win: 25 ms;	
		Hop: 10 ms; Range: 133.3-	
		6853.8 Hz;	
		Bands: 20;	
5 00 00	Compute Mel-Frequency Cepstrum Coefficients (32-bit fixed-point	Ceps: 13;	0014 / 1 0000
mfcc32x32_process	input/output data)	Flavor: HTK Fs: 16000;	8314 (cycles per STFT hop)
		fftSize: 512;	
		Win: 16 ms;	
		Hop: 10 ms;	
		Range: 133.3- 6853.8 Hz;	
		Bands: 40;	
	Community Mal Francisco Construer Conffrients (22) hit fixed a sint	Ceps: 13;	
mfcc32x32 process	Compute Mel-Frequency Cepstrum Coefficients (32-bit fixed-point input/output data)	Flavor: AUDITORY	7880 (cycles per STFT hop)
micc32x32_process	inputouput data)	Fs: 16000;	7000 (Cycles per Siri Nop)
		fftSize: 512;	
		Range: 133.3-	
	Compute log mel filterbank energies (single precision floating-point	6853.8 Hz; Bands: 20;	
logmelf_process	input/output data)	Flavor: HTK	3917 (cycles per STFT hop)
		Fs: 16000;	
		fftSize: 512; Range: 133.3-	
		6853.8 Hz;	
	On the last the second filtred to the second of the second	Bands: 40;	
logmolf progoga	Compute log mel filterbank energies (single precision floating-point input/output data)	Flavor:	4012 (gyalog por CEEE bon)
logmelf_process	inputouiput data)	AUDITORY Fs: 16000;	4913 (cycles per STFT hop)
		fftSize: 512;	
		Win: 25 ms;	
		Hop: 10 ms; Range: 133.3-	
		6853.8 Hz;	
	Compute Mel Frequency Construer Confficients (single acceptain	Bands: 20;	
mfoof process	Compute Mel-Frequency Cepstrum Coefficients (single precision	Ceps: 13;	10561 (qualog pay CEEE han)
mfccf_process	floating-point input/output data)	Flavor: HTK Fs: 16000;	10561 (cycles per STFT hop)
		fftSize: 512;	
		Win: 16 ms;	
		Hop: 10 ms; Range: 133.3-	
		6853.8 Hz;	
		Bands: 40;	
	Compute Mel-Frequency Cepstrum Coefficients (single precision	Ceps: 13;	
mfccf process	floating-point input/output data)	Flavor: AUDITORY	9899 (cycles per STFT hop)
mfccf_process	Tioating-point input/output data)	AUDITORY	9899 (cycles per STFT hop)

Functions Performance

This chapter collects detailed performance data for all library functions. All data presented below are given with memory modeling (build with MEM_MODEL=1 and run simulator with -mem_model). These performance measurements are done using the Xtensa Xplorer and Tools version RG-2018.9. Cores used are HiFi4 with VFPU, xclib configurations, where bd5 indicates 5-stage variant.

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
FIR Filters	·	
Filtering		
bkfir16x16_process	N: 80; M: 256	2929 (7.0 MACs/cycle)
bkfir16x16_process	N: 2048; M: 8	11539 (1.4 MACs/cycle)
bkfir16x16_process bkfir16x16 process	N: 160; M: 8 N: 160; M: 16	919 (1.4 MACs/cycle) 1019 (2.5 MACs/cycle)
bkfir16x16 process	N: 100, M: 10 N: 1024; M: 32	8595 (3.8 MACs/cycle)
bkfira16x16 process	N: 80; M: 256	2999 (6.8 MACs/cycle)
bkfira16x16 process	N: 2048; M: 8	12839 (1.3 MACs/cycle)
bkfira16x16_process	N: 160; M: 8	1039 (1.2 MACs/cycle)
bkfira16x16_process	N: 160; M: 16	1144 (2.2 MACs/cycle)
bkfira16x16_process	N: 1024; M: 32	9255 (3.5 MACs/cycle)
bkfir24x24p_process bkfir24x24p process	N: 80; M: 256 N: 80; M: 512	5440 (3.8 MACs/cycle) 10561 (3.9 MACs/cycle)
bkfir24x24p process	N: 2048; M: 4	11669 (0.7 MACs/cycle)
bkfir24x24p process	N: 2048; M: 8	11672 (1.4 MACs/cycle)
bkfir24x24p_process	N: 160; M: 8	931 (1.4 MACs/cycle)
bkfir24x24p_process	N: 160; M: 16	1269 (2.0 MACs/cycle)
bkfir24x24p_process	N: 80; M: 16	642 (2.0 MACs/cycle)
bkfir24x24p_process	N: 512; M: 32	6070 (2.7 MACs/cycle)
bkfir24x24p_process bkfir32x16 process	N: 1024; M: 32 N: 80; M: 256	12125 (2.7 MACs/cycle) 3629 (5.6 MACs/cycle)
bkfir32x16_process	N: 80; M: 512	6832 (6.0 MACs/cycle)
bkfir32x16_process	N: 2048; M: 4	7711 (1.1 MACs/cycle)
bkfir32x16_process	N: 2048; M: 8	9508 (1.7 MACs/cycle)
bkfir32x16_process	N: 160; M: 8	776 (1.6 MACs/cycle)
bkfir32x16_process	N: 160; M: 16	976 (2.6 MACs/cycle)
bkfir32x16_process	N: 80; M: 16	506 (2.5 MACs/cycle)
bkfir32x16_process bkfir32x16 process	N: 512; M: 32 N: 1024; M: 32	4324 (3.8 MACs/cycle) 8613 (3.8 MACs/cycle)
bkfir32x32 process	N: 80; M: 256	5398 (3.8 MACs/cycle)
bkfir32x32 process	N: 80; M: 512	10516 (3.9 MACs/cycle)
bkfir32x32_process	N: 2048; M: 4	9233 (0.9 MACs/cycle)
bkfir32x32_process	N: 2048; M: 8	10512 (1.6 MACs/cycle)
bkfir32x32_process	N: 160; M: 8	836 (1.5 MACs/cycle)
bkfir32x32_process bkfir32x32_process	N: 160; M: 16 N: 80; M: 16	1176 (2.2 MACs/cycle) 596 (2.1 MACs/cycle)
bkfir32x32_process	N: 512; M: 32	5776 (2.8 MACs/cycle)
bkfir32x32 process	N: 1024; M: 32	11536 (2.8 MACs/cycle)
bkfir32x32ep_process	N: 80; M: 256	5581 (3.7 MACs/cycle)
bkfir32x32ep_process	N: 80; M: 512	10701 (3.8 MACs/cycle)
bkfir32x32ep_process	N: 2048; M: 4	12821 (0.6 MACs/cycle)
bkfir32x32ep_process	N: 2048; M: 8 N: 160; M: 8	15381 (1.1 MACs/cycle) 1221 (1.0 MACs/cycle)
bkfir32x32ep_process bkfir32x32ep process	N: 160; M: 6 N: 160; M: 16	1541 (1.7 MACs/cycle)
bkfir32x32ep process	N: 80; M: 16	781 (1.6 MACs/cycle)
bkfir32x32ep_process	N: 512; M: 32	6933 (2.4 MACs/cycle)
bkfir32x32ep_process	N: 1024; M: 32	13845 (2.4 MACs/cycle)
bkfira32x16_process	N: 80; M: 256	4261 (4.8 MACs/cycle)
bkfira32x16_process bkfira32x16 process	N: 80; M: 512 N: 2048; M: 4	8101 (5.1 MACs/cycle)
bkfira32x16_process	N: 2046; M: 4 N: 2048; M: 8	11300 (0.7 MACs/cycle) 13087 (1.3 MACs/cycle)
bkfira32x16_process	N: 160; M: 8	1051 (1.2 MACs/cycle)
bkfira32x16_process	N: 160; M: 16	1291 (2.0 MACs/cycle)
bkfira32x16 process	N: 80; M: 16	661 (1.9 MACs/cycle)
bkfira32x16_process	N: 512; M: 32	5599 (2.9 MACs/cycle)
bkfira32x16_process bkfira32x32_process	N: 1024; M: 32	11165 (2.9 MACs/cycle) 5608 (3.7 MACs/cycle)
bkfira32x32_process bkfira32x32 process	N: 80; M: 256 N: 80; M: 512	10728 (3.8 MACs/cycle)
bkfira32x32 process	N: 2048; M: 4	13347 (0.6 MACs/cycle)
bkfira32x32 process	N: 2048; M: 8	15902 (1.0 MACs/cycle)
bkfira32x32_process	N: 160; M: 8	1270 (1.0 MACs/cycle)
bkfira32x32_process	N: 160; M: 16	1590 (1.6 MACs/cycle)
bkfira32x32_process	N: 80; M: 16 N: 512; M: 32	810 (1.6 MACs/cycle) 7070 (2.3 MACs/cycle)
bkfira32x32_process bkfira32x32_process	N: 512; M: 32 N: 1024; M: 32	14108 (2.3 MACS/Cycle)
bkfira32x32ep process	N: 80; M: 256	5770 (3.5 MACs/cycle)
bkfira32x32ep_process	N: 80; M: 512	10890 (3.8 MACs/cycle)
bkfira32x32ep_process	N: 2048; M: 4	17440 (0.5 MACs/cycle)
bkfira32x32ep_process	N: 2048; M: 8	20000 (0.8 MACs/cycle)
bkfira32x32ep process	N: 160; M: 8	1592 (0.8 MACs/cycle)
	N. 160. M. 10	1010 /1 2 3/3 0 - / 7 - 1
bkfira32x32ep process bkfira32x32ep process	N: 160; M: 16 N: 80; M: 16	1910 (1.3 MACs/cycle) 970 (1.3 MACs/cycle)

Invocation parameters			Cycles Measurements
SETTIFICATION PROCESS N. 1807 Mt. 128 S176 15.0 MRCS/cycle)	Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
SETTIFICATION PROCESS N. 1807 Mt. 128 S176 15.0 MRCS/cycle)	bkfira32x32ep process	N: 1024; M: 32	16158 (2.0 MACs/cycle)
Seficial (16) Process N: 160 N: 8 1936 (2.6 MACS/cycle)		·	
Section Sect		N: 2048; M: 8	_
STITISKIE Process N: 1024 N: 32 3073		•	
Section		•	
Section Sect		·	
STATE STAT		1	_
exfir32x16 process N: 160; M: 16 exfir32x16 process N: 160; M: 16 exfir32x16 process N: 100; M: 16 exfir32x16 process N: 100; M: 16 exfir32x16 process N: 1024; M: 32 exfir32x16 process N: 1024; M: 32 exfir32x16 process N: 1024; M: 32 exfir32x12 process N: 1024; M: 32 exfir32x12 process N: 80; M: 128 exfir32x12 process N: 2048; M: 4 exfir32x12 process N: 2048; M: 4 exfir32x12 process N: 2048; M: 4 exfir32x12 process N: 160; M: 8 exfir32x12 process N: 160; M: 8 exfir32x12 process N: 160; M: 16 exfir32x12 process N: 160; M: 16 exfir32x12 process N: 100; M: 128 exfir32x12process N: 80; M: 160 exfir32x12process N: 100; M: 18 exfir32x12process N: 80; M: 100 exfir32x12process N: 100; M: 16 exfir32x12process N: 100; M: 1	cxfir32x16 process	N: 2048; M: 4	
Serfir32X16 process		N: 2048; M: 8	31250 (2.1 MACs/cycle)
exfir32X16 process N: 502 M: 16 1878 (2.7 MACs/cycle) exfir32X16 process N: 1024 M: 32 20114 (3.3 MACs/cycle) exfir32X2 process N: 807 M: 128 10958 (3.8 MACs/cycle) exfir32X32 process N: 807 M: 128 10958 (3.8 MACs/cycle) exfir32X32 process N: 807 M: 128 10958 (3.8 MACs/cycle) exfir32X32 process N: 2048 M: 4 22946 (1.5 MACs/cycle) exfir32X32 process N: 2048 M: 4 22946 (1.5 MACs/cycle) exfir32X32 process N: 1067 M: 8 31763 (2.1 MACs/cycle) exfir32X32 process N: 1067 M: 8 2498 (2.0 MACs/cycle) exfir32X32 process N: 1067 M: 8 2498 (2.0 MACs/cycle) exfir32X32 process N: 107 M: 16 3778 (2.7 MACs/cycle) exfir32X32 process N: 107 M: 16 3778 (2.7 MACs/cycle) exfir32X32 process N: 107 M: 16 1898 (2.7 MACs/cycle) exfir32X32 process N: 107 M: 128 20242 (3.2 MACs/cycle) exfir32X32 process N: 107 M: 128 1092 (3.7 MACs/cycle) exfir32X32 process N: 807 M: 128 11022 (3.7 MACs/cycle) exfir32X32pp process N: 807 M: 128 11022 (3.7 MACs/cycle) exfir32X32pp process N: 2048 M: 80 M: 512 41740 (3.9 MACs/cycle) exfir32X32pp process N: 2048 M: 80 M: 512 41740 (3.9 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (1.2 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (1.2 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (1.2 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (2.5 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (2.5 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (2.5 MACs/cycle) exfir32X32pp process N: 107 M: 16 2064 (2.5 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (2.5 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (2.5 MACs/cycle) exfir32X32pp process N: 1060 M: 16 2064 (2.5 MACs/cycle) exfir32X32pp process N: 1060 M: 256 1061 (6.6 MACs/cycle) exfero bxfrif6x16 process N: 1064 M: 25 2064 (2.5 MACs/cycle) exfero bxfrif6x16 process N: 1064 M: 25 2064 (2.5 MACs/cycle) exfero bxfrif6x16 process N: 1064 M: 25 2064 (2.5 MACs/cycle) exfero bxfrif6x16 process N: 1064 M: 25 2064 (2.5 MACs/cycle) exfired process N: 1064 M: 25 2064		· · · · · · · · · · · · · · · · · · ·	
CRITICAN Process N: 1024 N: 32 40210 (3.3 MACS/cycle)			
exfir32X16 process N: 1024 N: 32			
cxfir32x32 process N: 80, M: 512		· · · · · · · · · · · · · · · · · · ·	. ,,,,
cxfir32x32 process N: 2048; M: 4 22546 (1.5 MACs/cycle) cxfir32x32 process N: 2048; M: 8 31763 (2.1 MACs/cycle) cxfir32x32 process N: 160; M: 8 2498 (2.0 MACs/cycle) cxfir32x32 process N: 160; M: 16 3778 (2.7 MACs/cycle) cxfir32x32 process N: 80; M: 16 1988 (2.7 MACs/cycle) cxfir32x32 process N: 80; M: 16 1988 (2.7 MACs/cycle) cxfir32x32 process N: 80; M: 12 2 20242 (3.2 MACs/cycle) cxfir32x32 process N: 1024; M: 32 40466 (3.2 MACs/cycle) cxfir32x32 process N: 1024; M: 32 40466 (3.2 MACs/cycle) cxfir32x32 process N: 80; M: 128 11022 (3.7 MACs/cycle) cxfir32x32 process N: 80; M: 128 11022 (3.7 MACs/cycle) cxfir32x32p process N: 2043; M: 4 26644 (1.2 MACs/cycle) cxfir32x32p process N: 2043; M: 4 26644 (1.2 MACs/cycle) cxfir32x32p process N: 2043; M: 8 33860 (1.6 MACs/cycle) cxfir32x32p process N: 160; M: 8 2820 (1.8 MACs/cycle) cxfir32x32p process N: 160; M: 8 2820 (1.8 MACs/cycle) cxfir32x32p process N: 160; M: 6 4100 (2.5 MACs/cycle) cxfir32x32p process N: 80; M: 132 2 2288 (3.1 MACs/cycle) cxfir32x32p process N: 80; M: 32 2 2288 (3.1 MACs/cycle) cxfir32x32p process N: 1024; M: 32 2 21288 (3.1 MACs/cycle) cxfir32x32p process N: 1024; M: 32 2 21288 (3.1 MACs/cycle) cxfir32x32p process N: 1024; M: 32 2 21288 (3.1 MACs/cycle) cxfir32x32p process N: 1024; M: 32 2 21288 (3.1 MACs/cycle) cxfir32x32p process N: 1024; M: 32 2 21288 (3.1 MACs/cycle) cxfir32x32p process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir32x32p process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir32x32p process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir32x32p process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir4 cxfir6 process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir6 cxfir6 process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir6 cxfir6 process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir6 process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir6 process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir6 process N: 160; M: 8 2358 (1.1 MACs/cycle) cxfir6 process N: 160; M: 32 2 2222 (1.5 MACs/cycle) cxfir6 process N: 160; M: 32 2 2222 (1.5 MACs/cycle) cxfir6 process N: 160; M: 256 D: 2 2		·	
exfir32x32 process N: 2048; M: 8	cxfir32x32_process	N: 80; M: 512	41578 (3.9 MACs/cycle)
cxfir32x32 process N: 160, M: 8 2498 (2.0 MACs/cycle) cxfir32x32 process N: 160, M: 16 3778 (2.7 MACs/cycle) cxfir32x32 process N: 80, M: 16 1898 (2.7 MACs/cycle) cxfir32x32 process N: 512, M: 32 40466 (3.2 MACs/cycle) cxfir32x32 process N: 1024, M: 32 40466 (3.2 MACs/cycle) cxfir32x32ep process N: 80, M: 128 11022 (3.7 MACs/cycle) cxfir32x32ep process N: 80, M: 128 11022 (3.7 MACs/cycle) cxfir32x32ep process N: 2048, M: 8 26644 (1.2 MACs/cycle) cxfir32x32ep process N: 2048, M: 8 35860 (1.8 MACs/cycle) cxfir32x32ep process N: 160, M: 8 35860 (1.8 MACs/cycle) cxfir32x32ep process N: 160, M: 8 35860 (1.8 MACs/cycle) cxfir32x32ep process N: 160, M: 8 35860 (1.8 MACs/cycle) cxfir32x32ep process N: 160, M: 8 35860 (1.8 MACs/cycle) cxfir32x32ep process N: 160, M: 8 4100 (2.5 MACs/cycle) cxfir32x32ep process N: 160, M: 8 42584 (3.1 MACs/cycle) cxfir32x32ep process N: 160, M: 8 42586 (3.1 MACs/cycle) <	^	·	1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
exfir32x32 process N: 160; N: 16 3778 (2.7 MaCs/cycle) exfir32x32 process N: 50; M: 16 1898 (2.7 MaCs/cycle) exfir32x32 process N: 512; M: 32 20242 (3.2 MaCs/cycle) exfir32x32 process N: 1044; M: 32 40366 (3.2 MaCs/cycle) exfir32x32ep process N: 80; M: 128 11022 (3.7 MaCs/cycle) exfir32x32ep process N: 80; M: 128 11022 (3.7 MaCs/cycle) exfir32x32ep process N: 2046; M: 4 26644 (1.2 MaCs/cycle) exfir32x32ep process N: 100; M: 8 35860 (1.8 MaCs/cycle) exfir32x32ep process N: 100; M: 8 2820 (1.8 MaCs/cycle) exfir32x32ep process N: 100; M: 8 2820 (1.8 MaCs/cycle) exfir32x32ep process N: 512; M: 32 21268 (3.1 MaCs/cycle) exfir32x32ep process N: 512; M: 32 21268 (3.1 MaCs/cycle) exfir32x32ep process N: 507 M: 32 42388 (3.1 MaCs/cycle) exfir32x32ep process N: 507 M: 8 2948 (1.1 MaCs/cycle) stereo bxfir16x16 process N: 80; M: 256 6161 (6.6 MaCs/cycle) stereo bxfir16x16 process N: 1027 M: 32 2358 (2.0 MaCs/cycle) <tr< td=""><td></td><td>·</td><td></td></tr<>		·	
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exfir32x32 process N: 512; N: 32 20242 (3.2 MACS/cycle) cxfir32x32 process N: 1024; N: 32 4066 (3.2 MACS/cycle) cxfir32x32ep process N: 80; M: 128 11022 (3.7 MACS/cycle) cxfir32x32ep process N: 80; M: 512 41740 (3.9 MACS/cycle) cxfir32x32ep process N: 2048; M: 4 26644 (1.2 MACS/cycle) cxfir32x32ep process N: 2048; M: 8 35860 (1.8 MACS/cycle) cxfir32x32ep process N: 160; M: 8 32800 (1.8 MACS/cycle) cxfir32x32ep process N: 160; M: 16 4100 (2.5 MACS/cycle) cxfir32x32ep process N: 160; M: 16 2006 (2.5 MACS/cycle) cxfir32x32ep process N: 150; M: 32 21268 (3.1 MACS/cycle) cxfir32x32ep process N: 150; M: 32 21268 (3.1 MACS/cycle) cxfir32x32ep process N: 1504 M: 32 4258 (3.1 MACS/cycle) stereo bkfir16x16 process N: 2044 M: 32 4258 (3.1 MACS/cycle) stereo bkfir16x16 process N: 160; M: 8 2338 (1.1 MACS/cycle) stereo bkfir16x16 process N: 160; M: 8 2358 (1.1 MACS/cycle) stereo bkfirif2x12 process N: 60; M: 8 2358 (1.1 MACS/cycle)		•	
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exfir32x32ep process N: 160; M: 16 4100 (2.5 MACs/cycle) cxfir32x32ep process N: 80; M: 16 2060 (2.5 MACs/cycle) cxfir32x32ep process N: 512; M: 32 21268 (3.1 MACs/cycle) cxfir32x32ep process N: 1024; M: 32 42518 (3.1 MACs/cycle) stereo bkfir16x16 process N: 1024; M: 32 42518 (3.1 MACs/cycle) stereo bkfir16x16 process N: 2048; M: 8 29448 (1.1 MACs/cycle) stereo bkfir16x16 process N: 160; M: 8 2358 (1.1 MACs/cycle) stereo bkfir16x16 process N: 160; M: 16 2558 (2.0 MACs/cycle) stereo bkfir16x16 process N: 1024; M: 32 20359 (3.2 MACs/cycle) stereo bkfir32x32 process N: 2048; M: 8 24591 (1.3 MACs/cycle) stereo bkfir32x32 process N: 160; M: 8 1935 (1.3 MACs/cycle) stereo bkfir32x32 process N: 160; M: 8 1935 (1.3 MACs/cycle) stereo bkfir32x32 process N: 160; M: 8 1935 (1.3 MACs/cycle) stereo bkfir32x32 process N: 160; M: 8 1935 (1.3 MACs/cycle) bkfiraf process N: 160; M: 8 1935 (1.3 MACs/cycle) bkfiraf process N: 1024; M: 32 1486 (* _*	·	
exfir32x32ep process N: 80; N: 16 2050 (2,5 MACs/cycle) cxfir32x32ep process N: 512; M: 32 21268 (3.1 MACs/cycle) cxfir32x32ep process N: 1024; M: 32 42518 (3.1 MACs/cycle) stereo bkfir16x16 process N: 80; N: 256 6161 (6.6 MACs/cycle) stereo bkfir16x16 process N: 160; M: 8 29448 (1.1 MACs/cycle) stereo bkfir16x16 process N: 160; M: 16 2558 (1.1 MACs/cycle) stereo bkfir16x16 process N: 1024; M: 32 20359 (3.2 MACs/cycle) stereo bkfir32x32 process N: 80; M: 256 10914 (3.6 MACs/cycle) stereo bkfir32x32 process N: 80; M: 256 10914 (3.6 MACs/cycle) stereo bkfir32x32 process N: 80; M: 8 24591 (1.3 MACs/cycle) stereo bkfir32x32 process N: 160; M: 8 1935 (1.3 MACs/cycle) stereo bkfir32x32 process N: 160; M: 16 2615 (2.0 MACs/cycle) bkfiraf process N: 126; M: 32 2486 (2.6 MACs/cycle) bkfiraf process N: 1024; M: 32 2486 (2.6 MACs/cycle) bkfiraf process N: 1024; M: 32 14876 (2.2 MACs/cycle) bkfiraf process N: 1024; M: 512 137756 (3.8 MAC			
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xtereo bkfir16x16 process	~ _*	1	
Stereo bkfirl6x16 process	~ _*		
Stereo bkfir16x16 process N: 160; M: 8 2358 (1.1 MACs/cycle)	stereo_bkfir16x16_process	N: 80; M: 256	
Stereo bkfirl6x16 process N: 100; M: 16 2558 (2.0 MACs/cycle)		·	
Stereo bkfir16x16 process		· · · · · · · · · · · · · · · · · · ·	
Stereo bkfir32x32 process		· · · · · · · · · · · · · · · · · · ·	
Stereo bkfir32x32 process N: 2048; M: 8 24591 (1.3 MACs/cycle)		1	
Stereo bkfir32x32 process N: 160; M: 8 1935 (1.3 MACs/cycle)			
Stereo bkfir32x32 process N: 1024; M: 32		N: 160; M: 8	
Dkfiraf process N: 512; M: 32		•	
Description			
bkfiraf process N: 1024; M: 512 72220 (3.6 MACs/cycle) bkfiraf process N: 1024; M: 512 137756 (3.8 MACs/cycle) bkfirf process N: 512; M: 32 7693 (2.1 MACs/cycle) bkfirf process N: 1024; M: 32 15373 (2.1 MACs/cycle) bkfirf process N: 1024; M: 256 72717 (3.6 MACs/cycle) bkfirf process N: 1024; M: 512 138253 (3.8 MACs/cycle) stereo bkfirf process N: 512; M: 32 18165 (1.8 MACs/cycle) stereo bkfirf process N: 1024; M: 32 36325 (1.8 MACs/cycle) stereo bkfirf process N: 1024; M: 32 36325 (1.8 MACs/cycle) stereo bkfirf process N: 1024; M: 32 36325 (1.8 MACs/cycle) stereo bkfirf process N: 1024; M: 256 151013 (3.5 MACs/cycle) stereo bkfirf process N: 1024; M: 256 151013 (3.5 MACs/cycle) cxfirf process N: 512; M: 32 19211 (3.4 MACs/cycle) cxfirf process N: 512, M: 256 133899 (3.9 MACs/cycle) firdecl6x16 process N: 1024; M: 256; D: 2 6685 (0.3 MACs/cycle) firdecl6x16 process N: 1024; M: 260; D: 2 47143 (5.6 MACs/cycle)			
Dkfiraf process N: 1024; M: 512 137756 (3.8 MACs/cycle)	*		
bkfirf process N: 512; M: 32 7693 (2.1 MACs/cycle) bkfirf process N: 1024; M: 32 15373 (2.1 MACs/cycle) bkfirf process N: 1024; M: 256 72717 (3.6 MACs/cycle) bkfirf process N: 1024; M: 512 138253 (3.8 MACs/cycle) stereo bkfirf process N: 512; M: 32 18165 (1.8 MACs/cycle) stereo bkfirf process N: 1024; M: 32 36325 (1.8 MACs/cycle) stereo bkfirf process N: 1024; M: 256 151013 (3.5 MACs/cycle) stereo bkfirf process N: 1024; M: 512 282085 (3.7 MACs/cycle) cxfirf process N: 512; M: 32 19211 (3.4 MACs/cycle) cxfirf process N: 512; M: 32 19211 (3.4 MACs/cycle) cxfirf process N: 512; M: 256 133899 (3.9 MACs/cycle) cxfirf process N: 512; M: 256 133899 (3.9 MACs/cycle) firdec16x16 process N: 1024; M: 256; D: 2 6685 (0.3 MACs/cycle) firdec16x16 process N: 1024; M: 256; D: 2 46110 (5.7 MACs/cycle) firdec16x16 process N: 1024; M: 260; D: 2 47143 (5.6 MACs/cycle) firdec16x16 process N: 1024; M: 256; D: 3 7714 (0.3 MACs/cycle) <td>_*</td> <td>·</td> <td></td>	_*	·	
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firdec16x16_process N: 1024; M: 256; D: 7 83104 (3.2 MACs/cycle)			
	firdec16x16_process	N: 1024; M: 256; D: 7	83104 (3.2 MACs/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
firdec16x16_process	N: 1024; M: 260; D: 7	84771 (3.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 2; D: 2	7462 (0.3 MACs/cycle)
firdec32x16_process	N: 1024; M: 4; D: 2	7462 (0.5 MACs/cycle)
firdec32x16_process firdec32x16 process	N: 1024; M: 8; D: 2 N: 1024; M: 16; D: 2	7974 (1.0 MACs/cycle) 8235 (2.0 MACs/cycle)
firdec32x16_process	N: 1024; M: 32; D: 2	10534 (3.1 MACs/cycle)
firdec32x16 process	N: 1024; M: 256; D: 2	39206 (6.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 2	39718 (6.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 2	40230 (6.6 MACs/cycle)
firdec32x16_process	N: 80; M: 256; D: 2	3098 (6.6 MACs/cycle)
firdec32x16_process firdec32x16 process	N: 1024; M: 2; D: 3 N: 1024; M: 4; D: 3	10021 (0.2 MACs/cycle) 10021 (0.4 MACs/cycle)
firdec32x16_process	N: 1024; M: 4; D: 3	10021 (0.4 MACS/Cycle)
firdec32x16 process	N: 1024; M: 16; D: 3	12074 (1.4 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 3	66085 (4.0 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 3	67109 (4.0 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 3	67877 (3.9 MACs/cycle)
firdec32x16_process firdec32x16 process	N: 1024; M: 2; D: 4 N: 1024; M: 4; D: 4	9510 (0.2 MACs/cycle) 9510 (0.4 MACs/cycle)
firdec32x16_process	N: 1024; M: 4; D: 4 N: 1024; M: 8; D: 4	10278 (0.8 MACs/cycle)
firdec32x16_process	N: 1024; M: 0, D: 4	43302 (6.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 4	43558 (6.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 4	44326 (6.0 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 5	133155 (2.0 MACs/cycle)
firdec32x16_process firdec32x16 process	N: 1024; M: 260; D: 5 N: 1024; M: 256; D: 6	135203 (2.0 MACs/cycle) 117283 (2.2 MACs/cycle)
firdec32x16_process	N: 1024; M: 250; D: 6	118821 (2.2 MACs/cycle)
firdec32x16 process	N: 1024; M: 256; D: 7	117539 (2.2 MACs/cycle)
firdec32x16 process	N: 1024; M: 260; D: 7	119331 (2.2 MACs/cycle)
firdec32x16_process	N: 80; M: 256; D: 2	3100 (6.6 MACs/cycle)
firdec32x32 process	N: 1024; M: 2; D: 2	6944 (0.3 MACs/cycle)
firdec32x32_process firdec32x32_process	N: 1024; M: 4; D: 2 N: 1024; M: 8; D: 2	6944 (0.6 MACs/cycle) 8224 (1.0 MACs/cycle)
firdec32x32_process firdec32x32 process	N: 1024; M: 8; D: 2 N: 1024; M: 16; D: 2	10272 (1.6 MACs/cycle)
firdec32x32 process	N: 1024; M: 32; D: 2	14368 (2.3 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 2	71712 (3.7 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 2	72736 (3.7 MACs/cycle)
firdec32x32_process	N: 1024; M: 261; D: 2	73760 (3.6 MACs/cycle)
firdec32x32_process firdec32x32_process	N: 1024; M: 2; D: 3 N: 1024; M: 4; D: 3	10275 (0.2 MACs/cycle) 10275 (0.4 MACs/cycle)
firdec32x32_process	N: 1024; M: 4; D: 3	11299 (0.7 MACs/cycle)
firdec32x32 process	N: 1024; M: 16; D: 3	12840 (1.3 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 3	74531 (3.5 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 3	75555 (3.5 MACs/cycle)
firdec32x32_process	N: 1024; M: 261; D: 3	76579 (3.5 MACs/cycle)
firdec32x32_process firdec32x32_process	N: 1024; M: 2; D: 4 N: 1024; M: 4; D: 4	10272 (0.2 MACs/cycle) 10272 (0.4 MACs/cycle)
firdec32x32_process	N: 1024; M: 4; D: 4 N: 1024; M: 8; D: 4	11296 (0.7 MACs/cycle)
firdec32x32 process	N: 1024; M: 256; D: 4	74272 (3.5 MACs/cycle)
firdec32x32 process	N: 1024; M: 260; D: 4	75296 (3.5 MACs/cycle)
firdec32x32_process	N: 1024; M: 261; D: 4	76320 (3.5 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 5	125474 (2.1 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 5	127266 (2.1 MACs/cycle) 125474 (2.1 MACs/cycle)
firdec32x32_process firdec32x32_process	N: 1024; M: 256; D: 6 N: 1024; M: 260; D: 6	1254/4 (2.1 MACS/cycle) 127268 (2.1 MACS/cycle)
firdec32x32_process	N: 1024; M: 256; D: 7	126498 (2.1 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 7	128290 (2.1 MACs/cycle)
firdec32x32_process	N: 80; M: 256; D: 2	5632 (3.6 MACs/cycle)
firdec32x32ep_process	N: 80; M: 256; D: 2	6993 (2.9 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 2; D: 2	8225 (0.2 MACs/cycle)
firdec32x32ep_process firdec32x32ep process	N: 1024; M: 4; D: 2 N: 1024; M: 8; D: 2	8225 (0.5 MACs/cycle) 9762 (0.8 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 0, D: 2	12321 (1.3 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 32; D: 2	17441 (1.9 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 2	89121 (2.9 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 2	90401 (2.9 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 261; D: 2	91681 (2.9 MACs/cycle)
firdec32x32ep_process firdec32x32ep process	N: 1024; M: 2; D: 3 N: 1024; M: 4; D: 3	11299 (0.2 MACs/cycle) 11299 (0.4 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 4; D: 3 N: 1024; M: 8; D: 3	1299 (0.4 MACS/Cycle) 12068 (0.7 MACS/cycle)
firdec32x32ep process	N: 1024; M: 16; D: 3	13603 (1.2 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 3	75299 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 3	76579 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 261; D: 3	77347 (3.5 MACs/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
firdec32x32ep_process	N: 1024; M: 2; D: 4	9764 (0.2 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 4; D: 4	9764 (0.4 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 8; D: 4	11044 (0.7 MACs/cycle)
firdec32x32ep_process firdec32x32ep_process	N: 1024; M: 256; D: 4 N: 1024; M: 260; D: 4	74532 (3.5 MACs/cycle) 75556 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 261; D: 4	76580 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 5	126500 (2.1 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 5	128292 (2.1 MACs/cycle)
firdec32x32ep_process firdec32x32ep_process	N: 1024; M: 256; D: 6	93732 (2.8 MACs/cycle)
firdec32x32ep_process firdec32x32ep_process	N: 1024; M: 260; D: 6 N: 1024; M: 256; D: 7	95012 (2.8 MACs/cycle) 127269 (2.1 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 7	129060 (2.1 MACs/cycle)
firdec32x32ep_process	N: 80; M: 256; D: 2	6992 (2.9 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 2	71702 (3.7 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 2	137240 (3.8 MACs/cycle)
firdecf_process firdecf_process	N: 1024; M: 256; D: 3 N: 1024; M: 512; D: 3	99353 (2.6 MACs/cycle) 189465 (2.8 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 4	114713 (2.3 MACs/cycle)
firdecf process	N: 1024; M: 512; D: 4	213017 (2.5 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 8	179225 (1.5 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 8	310296 (1.7 MACs/cycle)
firdecf_process firdecf_process	N: 1024; M: 256; D: 11 N: 1024; M: 512; D: 11	247320 (1.1 MACs/cycle) 443928 (1.2 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 11 N: 1024; M: 256; D: 23	265752 (1.0 MACs/cycle)
firdecf process	N: 1024; M: 512; D: 23	462359 (1.1 MACs/cycle)
Interpolation		
firinterp16x16_process	N: 1024; M: 4; D: 2	7710 (1.1 MACs/cycle)
firinterp16x16_process firinterp16x16 process	N: 1024; M: 256; D: 2 N: 1024; M: 260; D: 2	88857 (5.9 MACs/cycle) 89886 (5.9 MACs/cycle)
firinterplex16 process	N: 1024; M: 260; D: 2 N: 1024; M: 4; D: 3	13089 (0.9 MACs/cycle)
firinterp16x16_process	N: 1024; M: 256; D: 3	134307 (5.9 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 3	152865 (5.2 MACs/cycle)
firinterp16x16_process	N: 1024; M: 4; D: 4	16420 (1.0 MACs/cycle)
firinterp16x16_process firinterp16x16 process	N: 1024; M: 256; D: 4 N: 1024; M: 260; D: 4	178215 (5.9 MACs/cycle) 180772 (5.9 MACs/cycle)
firinterp16x16 process	N: 1024; M: 256; D: 5	251942 (5.2 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 5	258554 (5.1 MACs/cycle)
firinterp16x16_process	N: 1024; M: 256; D: 7	353447 (5.2 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 7	361114 (5.2 MACs/cycle)
firinterp16x16_process firinterp32x16_process	N: 80; M: 204; D: 2 N: 1024; M: 4; D: 2	5649 (5.8 MACs/cycle) 8743 (0.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 8; D: 2	10535 (1.6 MACs/cycle)
firinterp32x16_process	N: 1024; M: 16; D: 2	13351 (2.5 MACs/cycle)
firinterp32x16_process	N: 1024; M: 32; D: 2	18983 (3.5 MACs/cycle)
firinterp32x16_process firinterp32x16_process	N: 1024; M: 256; D: 2 N: 1024; M: 260; D: 2	81961 (6.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 2 N: 1024; M: 4; D: 3	84009 (6.3 MACs/cycle) 17187 (0.7 MACs/cycle)
firinterp32x16 process	N: 1024; M: 8; D: 3	18728 (1.3 MACs/cycle)
firinterp32x16_process	N: 1024; M: 16; D: 3	21035 (2.3 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 3	121387 (6.5 MACs/cycle)
firinterp32x16_process firinterp32x16 process	N: 1024; M: 260; D: 3 N: 1024; M: 4; D: 4	123947 (6.4 MACs/cycle) 20523 (0.8 MACs/cycle)
firinterp32x16_process firinterp32x16_process	N: 1024; M: 4; D: 4 N: 1024; M: 8; D: 4	20523 (0.8 MACS/Cycle) 21803 (1.5 MACS/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 4	164139 (6.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 4	167467 (6.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 5	244011 (5.4 MACs/cycle)
firinterp32x16_process firinterp32x16_process	N: 1024; M: 260; D: 5 N: 1024; M: 256; D: 6	245291 (5.4 MACs/cycle) 290348 (5.4 MACs/cycle)
firinterp32x16_process firinterp32x16_process	N: 1024; M: 256; D: 6 N: 1024; M: 260; D: 6	290348 (5.4 MACS/CYCLE) 293419 (5.4 MACS/CYCLE)
firinterp32x16_process	N: 1024; M: 256; D: 7	339755 (5.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 7	341547 (5.5 MACs/cycle)
firinterp32x16_process	N: 80; M: 204; D: 8	24882 (5.2 MACs/cycle)
firinterp32x32_process firinterp32x32_process	N: 1024; M: 4; D: 2 N: 1024; M: 8; D: 2	10791 (0.8 MACs/cycle) 13095 (1.3 MACs/cycle)
firinterp32x32_process	N: 1024; M: 6; D: 2	17192 (1.9 MACs/cycle)
firinterp32x32_process	N: 1024; M: 32; D: 2	25383 (2.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 2	140072 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 2	142119 (3.7 MACs/cycle)
firinterp32x32_process firinterp32x32_process	N: 1024; M: 4; D: 3 N: 1024; M: 8; D: 3	22825 (0.5 MACs/cycle) 26664 (0.9 MACs/cycle)
firinterp32x32_process	N: 1024; M: 8; D: 3 N: 1024; M: 16; D: 3	32808 (1.5 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 3	217129 (3.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 3	220201 (3.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 4; D: 4	28713 (0.6 MACs/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
firinterp32x32 process	N: 1024; M: 8; D: 4	33834 (1.0 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 4	287784 (3.6 MACs/cycle)
firinterp32x32_process firinterp32x32_process	N: 1024; M: 260; D: 4 N: 1024; M: 256; D: 5	291881 (3.6 MACs/cycle) 359721 (3.6 MACs/cycle)
firinterp32x32_process	N: 1024, M: 250, D: 5	364841 (3.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 6	430634 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 6	436777 (3.7 MACs/cycle)
firinterp32x32_process firinterp32x32_process	N: 1024; M: 256; D: 7 N: 1024; M: 260; D: 7	501545 (3.7 MACs/cycle) 508713 (3.7 MACs/cycle)
firinterp32x32 process	N: 80; M: 204; D: 8	36441 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 80; M: 204; D: 2	9056 (3.6 MACs/cycle)
firinterp32x32ep_process firinterp32x32ep process	N: 1024; M: 4; D: 2 N: 1024; M: 8; D: 2	12585 (0.7 MACs/cycle) 15140 (1.1 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 8; D: 2 N: 1024; M: 16; D: 2	19236 (1.7 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 32; D: 2	27428 (2.4 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 2	142116 (3.7 MACs/cycle)
firinterp32x32ep_process firinterp32x32ep_process	N: 1024; M: 260; D: 2 N: 1024; M: 4; D: 3	144164 (3.7 MACs/cycle) 25646 (0.5 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 8; D: 3	29482 (0.8 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 16; D: 3	35625 (1.4 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 3	219945 (3.6 MACs/cycle)
firinterp32x32ep_process firinterp32x32ep_process	N: 1024; M: 260; D: 3 N: 1024; M: 4; D: 4	223017 (3.6 MACs/cycle) 34349 (0.5 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 4; D: 4 N: 1024; M: 8; D: 4	39465 (0.8 MACs/cycle)
firinterp32x32ep process	N: 1024; M: 256; D: 4	293415 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 4	297512 (3.6 MACs/cycle)
firinterp32x32ep_process firinterp32x32ep_process	N: 1024; M: 256; D: 5 N: 1024; M: 260; D: 5	368426 (3.6 MACs/cycle) 373546 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 6	441130 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 6	447274 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 7	513834 (3.6 MACs/cycle)
firinterp32x32ep_process firinterp32x32ep_process	N: 1024; M: 260; D: 7 N: 80; M: 204; D: 8	521002 (3.6 MACs/cycle) 37541 (3.5 MACs/cycle)
firinterpf process	N: 1024; M: 256; D: 2	134422 (3.9 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 2	265495 (3.9 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 3 N: 1024; M: 512; D: 3	221461 (3.6 MACs/cycle)
firinterpf_process firinterpf process	N: 1024; M: 312; D: 3 N: 1024; M: 256; D: 4	418070 (3.8 MACs/cycle) 269336 (3.9 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 4	531479 (3.9 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 8	591642 (3.5 MACs/cycle)
firinterpf_process Correlation, Convolution,	N: 1024; M: 512; D: 8	1115929 (3.8 MACs/cycle)
Despreading, LMS		
fir_convol16x16	N: 80; M: 56	998 (4.5 MACs/cycle)
fir_convol16x16 fir_convol16x16	N: 80; M: 60 N: 256; M: 80	1047 (4.6 MACs/cycle) 4112 (5.0 MACs/cycle)
fir convol16x16	N: 256; M: 80 N: 256; M: 84	4274 (5.0 MACs/cycle)
fir convol32x16	N: 80; M: 56	963 (4.7 MACs/cycle)
fir_convol32x16	N: 80; M: 60	988 (4.9 MACs/cycle)
fir_convol32x16 fir convol32x16	N: 256; M: 80 N: 256; M: 84	3799 (5.4 MACs/cycle) 3868 (5.6 MACs/cycle)
fir convol32x32	N: 236; M: 84 N: 80; M: 56	1296 (3.5 MACs/cycle)
fir_convol32x32	N: 256; M: 80	5626 (3.6 MACs/cycle)
fir_convol32x32ep	N: 80; M: 56	1538 (2.9 MACs/cycle)
fir_convol32x32ep fir convola16x16	N: 256; M: 80 N=80; M=56	6418 (3.2 MACs/cycle) 1061 (4.2 MACs/cycle)
fir convola16x16	N=256; M=80	3937 (5.2 MACs/cycle)
fir_convola32x16	N: 80; M: 56	1138 (3.9 MACs/cycle)
fir_convola32x16	N: 80; M: 60	1221 (3.9 MACs/cycle)
fir_convola32x16 fir convola32x16	N: 256; M: 80 N: 256; M: 84	4130 (5.0 MACs/cycle) 4389 (4.9 MACs/cycle)
fir_convola32x32	N=80; M=56	1439 (3.1 MACs/cycle)
fir convola32x32	N=256; M=80	5903 (3.5 MACs/cycle)
fir_convola32x32ep fir convola32x32ep	N=80; M=56	1664 (2.7 MACs/cycle) 6611 (3.1 MACs/cycle)
cxfir convol32x16	N=256; M=80 N: 80; M: 56	3707 (4.8 MACs/cycle)
cxfir_convol32x16	N: 256; M: 80	16456 (5.0 MACs/cycle)
cxfir_convola32x16	N: 80; M: 56	4005 (4.5 MACs/cycle)
cxfir_convola32x16 fir lconvola16x16	N: 256; M: 80 N=80; M=56	17109 (4.8 MACs/cycle) 1320 (3.4 MACs/cycle)
fir_lconvola16x16	N=80; M=56 N=256; M=80	4228 (4.8 MACs/cycle)
fir_lconvola32x32	N=80; M=56	3076 (1.5 MACs/cycle)
fir_lconvola32x32	N=256; M=80	11935 (1.7 MACs/cycle)
fir_xcorr16x16	N: 80; M: 56	1084 (4.1 MACs/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
fir xcorr16x16	N: 256; M: 80	4590 (4.5 MACs/cycle)
fir_xcorr32x16	N: 80; M: 56	889 (5.0 MACs/cycle)
fir_xcorr32x16	N: 80; M: 60	993 (4.8 MACs/cycle)
fir_xcorr32x16	N: 256; M: 80	3593 (5.7 MACs/cycle)
fir_xcorr32x16 fir xcorr32x32	N: 256; M: 84 N: 80; M: 56	3919 (5.5 MACs/cycle) 1270 (3.5 MACs/cycle)
fir xcorr32x32	N: 256; M: 80	5578 (3.7 MACs/cycle)
fir xcorr32x32ep	N: 80; M: 56	1468 (3.1 MACs/cycle)
fir_xcorr32x32ep	N: 256; M: 80	6216 (3.3 MACs/cycle)
cxfir_xcorr32x32	N: 80; M: 56	4723 (3.8 MACs/cycle)
cxfir_xcorr32x32	N: 256; M: 80	21251 (3.9 MACs/cycle)
fir_xcorra16x16 fir xcorra16x16	N: 80; M: 56 N: 256; M: 80	1056 (4.2 MACs/cycle) 3932 (5.2 MACs/cycle)
fir xcorra32x16	N: 80; M: 56	1160 (3.9 MACs/cycle)
fir xcorra32x16	N: 80; M: 60	1245 (3.9 MACs/cycle)
fir_xcorra32x16	N: 256; M: 80	4164 (4.9 MACs/cycle)
fir_xcorra32x16	N: 256; M: 84	4425 (4.9 MACs/cycle)
fir_xcorra32x32	N: 80; M: 56	1484 (3.0 MACs/cycle)
fir xcorra32x32 fir xcorra32x32ep	N: 256; M: 80 N: 80; M: 56	5972 (3.4 MACs/cycle) 1704 (2.6 MACs/cycle)
fir xcorra32x32ep	N: 256; M: 80	6675 (3.1 MACs/cycle)
fir_lxcorral6x16	N=80; M=56	1327 (3.4 MACs/cycle)
fir_lxcorra16x16	N=256; M=80	4242 (4.8 MACs/cycle)
fir_lxcorra32x32	N=80; M=56	3098 (1.4 MACs/cycle)
fir_lxcorra32x32	N=256; M=80	11970 (1.7 MACs/cycle)
fir_acorr16x16 fir acorr16x16	N: 80 N: 256	1434 (4.5 MACs/cycle) 12985 (5.0 MACs/cycle)
fir acorr32x32	N: 80	1758 (3.6 MACs/cycle)
fir acorr32x32	N: 256	16849 (3.9 MACs/cycle)
fir_acorr32x32ep	N: 80	1985 (3.2 MACs/cycle)
fir_acorr32x32ep	N: 256	17607 (3.7 MACs/cycle)
fir_acorra16x16 fir_acorra16x16	N=80 N=256	1312 (4.9 MACs/cycle) 9695 (6.8 MACs/cycle)
fir acorra32x32	N: 80	1854 (3.5 MACs/cycle)
fir acorra32x32	N: 256	17123 (3.8 MACs/cycle)
fir_acorra32x32ep	N: 80	2072 (3.1 MACs/cycle)
fir_acorra32x32ep	N: 256	17823 (3.7 MACs/cycle)
fir_lacorra16x16	N=80	815 (3.9 MACs/cycle)
fir_lacorra16x16 fir_lacorra32x32	N=256 N=80	5303 (6.2 MACs/cycle) 2089 (1.5 MACs/cycle)
fir lacorra32x32	N=256	17885 (1.8 MACs/cycle)
fir blms16x16	N: 80; M: 16	856 (3.0 MACs/cycle)
fir_blms16x16	N: 64; M: 16	719 (2.8 MACs/cycle)
fir_blms16x16	N: 64; M: 64	1783 (4.6 MACs/cycle)
fir_blms16x16 fir blms16x16	N: 80; M: 64 N: 80; M: 128	2114 (4.8 MACs/cycle) 3778 (5.4 MACs/cycle)
fir blms16x16	N: 64; M: 128	3190 (5.1 MACs/cycle)
fir blms16x32	N: 80; M: 16	868 (2.9 MACs/cycle)
fir_blms16x32	N: 64; M: 16	722 (2.8 MACs/cycle)
fir_blms16x32	N: 64; M: 64	1734 (4.7 MACs/cycle)
fir_blms16x32	N: 80; M: 64	2069 (4.9 MACs/cycle)
fir_blms16x32 fir blms16x32	N: 80; M: 128 N: 64; M: 128	3677 (5.6 MACs/cycle) 3086 (5.3 MACs/cycle)
fir blms32x32	N: 80; M: 16	909 (2.8 MACs/cycle)
fir_blms32x32	N: 64; M: 16	748 (2.7 MACs/cycle)
fir_blms32x32	N: 64; M: 64	2410 (3.4 MACs/cycle)
fir_blms32x32	N: 80; M: 64	2955 (3.5 MACs/cycle)
fir_blms32x32	N: 80; M: 128	5683 (3.6 MACs/cycle)
fir_blms32x32 fir blms32x32ep	N: 64; M: 128 N: 80; M: 16	4626 (3.5 MACs/cycle) 1148 (2.2 MACs/cycle)
fir blms32x32ep	N: 64; M: 16	944 (2.2 MACs/cycle)
fir_blms32x32ep	N: 64; M: 64	2733 (3.0 MACs/cycle)
fir_blms32x32ep	N: 80; M: 64	3320 (3.1 MACs/cycle)
fir_blms32x32ep	N: 80; M: 128	6216 (3.3 MACs/cycle)
61 11 66 66	N: 64; M: 128	5117 (3.2 MACs/cycle) 3203 (3.2 MACs/cycle)
fir_blms32x32ep	N. 00. M. 16	
cxfir_blms32x32	N: 80; M: 16	
	N: 80; M: 16 N: 64; M: 16 N: 64; M: 64	2595 (3.2 MACs/cycle)
cxfir_blms32x32 cxfir_blms32x32	N: 64; M: 16	
cxfir blms32x32 cxfir blms32x32 cxfir_blms32x32 cxfir_blms32x32 cxfir_blms32x32	N: 64; M: 16 N: 64; M: 64 N: 80; M: 64 N: 80; M: 128	2595 (3.2 MACs/cycle) 9099 (3.6 MACs/cycle) 11243 (3.6 MACs/cycle) 21963 (3.7 MACs/cycle)
cxfir blms32x32 cxfir blms32x32 cxfir_blms32x32 cxfir_blms32x32 cxfir_blms32x32 cxfir_blms32x32 cxfir_blms32x32	N: 64; M: 16 N: 64; M: 64 N: 80; M: 64 N: 80; M: 128 N: 64; M: 128	2595 (3.2 MACs/cycle) 9099 (3.6 MACs/cycle) 11243 (3.6 MACs/cycle) 21963 (3.7 MACs/cycle) 17771 (3.7 MACs/cycle)
cxfir blms32x32 cxfir blms32x32 cxfir_blms32x32 cxfir_blms32x32 cxfir_blms32x32	N: 64; M: 16 N: 64; M: 64 N: 80; M: 64 N: 80; M: 128	2595 (3.2 MACs/cycle) 9099 (3.6 MACs/cycle) 11243 (3.6 MACs/cycle) 21963 (3.7 MACs/cycle)

Invocation parameters			Cycles Measurements
### Fir Monorf	Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
### Fir Monorf	fir convolaf	N: 256; M: 80	7459 (2.7 MACs/cvcle)
oxfir xcorrf N: 80; M: 56			
Extir Nomeral N: 80; N: 56 2025 (2.2 MAGG/cycle)	fir_xcorrf	N: 256; M: 80	6662 (3.1 MACs/cycle)
fir xcorraf N: 256, N: 50 2025 (2.2 MAGS/cycle) Cxfir xcorraf N: 256, N: 56 451 (3.7 MAGS/cycle) Cxfir xcorraf N: 256, N: 50 451 (3.7 MAGS/cycle) Cxfir xcorraf N: 256, N: 80 2163 (3.8 MAGS/cycle) Fir acorraf N: 266 1932 (3.1 MAGS/cycle) Fir acorraf N: 266 1938 (1.4 MAGS/cycle) Fir acorraf N: 256 1938 (1.4 MAGS/cycle) Fir bimsf N: 80, N: 16 1938 (1.4 MAGS/cycle) Fir bimsf N: 60, N: 16 1938 (1.4 MAGS/cycle) Fir bimsf N: 64, N: 16 1146 (1.4 MAGS/cycle) Fir bimsf N: 64, N: 16 1146 (1.4 MAGS/cycle) Fir bimsf N: 64, N: 12 3064 (2.7 MAGS/cycle) Fir bimsf N: 64, N: 12 3064 (2.7 MAGS/cycle) Fir bimsf N: 67, N: 128 3064 (2.7 MAGS/cycle) Fir bimsf N: 68, N: 128 3064 (2.7 MAGS/cycle) Fir bimsf N: 64, N: 128 3064 (2.3 MAGS/cycle) Fir bimsf N: 64, N: 128 3062 (3.1 MAGS/cycle) Fir bimsf N: 64, N: 128 30			
### Care St. 256; Mt. 80 7504 (2.7 MAGG/cycle)		·	
Section Sect			
Extri Exercise No. 18 Section 12643 (1.8 MAGG/cycle)			
fir acorrf N: 80 fir acorraf N: 256 17932 (3.7 MACS/cycle) fir acorraf N: 80 2620 (2.4 MACS/cycle) fir acorraf N: 80 17938 (3.6 MACS/cycle) fir blmsf N: 80; N: 16 1398 (1.8 MACS/cycle) fir blmsf N: 80; N: 16 1146 (1.8 MACS/cycle) fir blmsf N: 80; N: 16 1146 (1.8 MACS/cycle) fir blmsf N: 80; N: 64 3006 (2.7 MACS/cycle) fir blmsf N: 80; N: 64 3006 (2.7 MACS/cycle) fir blmsf N: 80; N: 64 3006 (2.7 MACS/cycle) fir blmsf N: 80; N: 128 6633 (3.1 MACS/cycle) fir blmsf N: 80; N: 128 6633 (3.1 MACS/cycle) fir blmsf N: 80; N: 128 6633 (3.1 MACS/cycle) fir blmsf N: 80; N: 128 6633 (3.1 MACS/cycle) cxfir blmsf N: 80; N: 16 3052 (3.4 MACS/cycle) cxfir blmsf N: 80; N: 16 3052 (3.4 MACS/cycle) cxfir blmsf N: 80; N: 18 308 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 64 8862 (3.7 MACS/cycle) cxfir blmsf N: 80; N: 64 8862 (3.7 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21561 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21562 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21562 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21562 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21562 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21562 (3.3 MACS/cycle) cxfir blmsf N: 80; N: 128 21562 (3.3 MACS/	_		
fir acorraf N: 296 Fir blmsf N: 807 N: 64 N: 807 N: 64 Fir blmsf N: 647 N: 16 Fir blmsf N: 647 N: 64 N: 807 N: 64 N: 807 N: 64 N: 807 N: 64 N: 808 N: 64 N:		·	
Fir acorraf			
fir accraef N: 256 1938B (3.4 MACs/cycle) fir blunsf N: 647 N: 16 1138 (1.8 MACs/cycle) fir blunsf N: 647 N: 16 1146 (1.8 MACs/cycle) fir blunsf N: 697 N: 64 3006 (2.7 MACs/cycle) fir blunsf N: 807 N: 128 6633 (3.1 MACs/cycle) fir blunsf N: 807 N: 128 5485 (3.0 MACs/cycle) fir blunsf N: 647 N: 128 5485 (3.0 MACs/cycle) cxfir blunsf N: 649 N: 16 2052 (3.4 MACs/cycle) cxfir blunsf N: 649 N: 16 2466 (3.3 MACs/cycle) cxfir blunsf N: 649 N: 128 4863 (3.7 MACs/cycle) cxfir blunsf N: 807 N: 64 10988 (3.7 MACs/cycle) cxfir blunsf N: 809 N: 128 21561 (3.8 MACs/cycle) cxfir blunsf N: 809 N: 128 17389 (3.8 MACs/cycle) cxfir blunsf N: 809 N: 128 17389 (3.8 MACs/cycle) cxfir blunsf N: 809 N: 128 17389 (3.8 MACs/cycle) cxfir blunsf N: 809 N: 128 17389 (3.8 MACs/cycle) cxfir blunsf N: 649 N: 128 17389 (3.8 MACs/cycle) cxfir blunsf			
Fir blansf			
Sir Dimes			
Fir blnsf	fir blmsf	N: 64; M: 16	
fir blunsf N: 80, M: 128 6633 (3.1 MACS/cycle) cxfir blunsf N: 80, M: 16 3052 (3.4 MACS/cycle) cxfir blunsf N: 80, M: 16 3052 (3.4 MACS/cycle) cxfir blunsf N: 64, M: 16 2666 (3.3 MACS/cycle) cxfir blunsf N: 64, M: 16 8622 (3.7 MACS/cycle) cxfir blunsf N: 64, M: 64 8622 (3.7 MACS/cycle) cxfir blunsf N: 80, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle) cxfir blunsf N: 64, M: 128 2156, (3.8 MACS/cycle)	fir blmsf	N: 64; M: 64	3006 (2.7 MACs/cycle)
Section Sect	fir_blmsf	N: 80; M: 64	
exfir blmsf N: 80; M: 16 3052 (3.4 Macs/cycle) exfir blmsf N: 64; M: 64 2466 (3.3 Macs/cycle) exfir blmsf N: 64; M: 64 3862 (3.7 Macs/cycle) exfir blmsf N: 80; M: 64 10988 (3.7 Macs/cycle) exfir blmsf N: 80; M: 128 21561 (3.8 Macs/cycle) exfir blmsf N: 64; M: 128 17389 (3.8 Macs/cycle) conval 3x3 8x8 M=3,N=3,F=256,Q=512 341263 (3.5 Macs/cycle) conval 3x3 8x8 M=3,N=3,F=256,Q=512 1339918 (2.4 Macs/cycle) conval 3x3 8x8 M=1,N=7,P=256,Q=512 173618 (5.6 Macs/cycle) conval 3x3 8x8 M=1,N=7,P=256,Q=526 173618 (5.6 Macs/cycle) conval 3x3 8x8 M=3,N=7,F=266,Q=526 174607 (3.1 Macs/cycle) conval 5x5 8x8 M=3,N=7,F=64,Q=64 12727 (2.9 Macs/cycle) conval 3x3 8x8 M=3,N=7,F=64,Q=64 12727 (2.9 Macs/cycle) conval 1x7 8x8 M=1,N=7,	fir_blmsf	N: 80; M: 128	6633 (3.1 MACs/cycle)
Exfir blmsf	fir_blmsf	*	5485 (3.0 MACs/cycle)
exfir blmsf N: 64; M: 64 9882 (3.7 Macs/cycle) exfir blmsf N: 80; M: 64 10988 (3.7 Macs/cycle) exfir blmsf N: 80; M: 128 21561 (3.8 Macs/cycle) ZD convolution 17889 (3.5 Macs/cycle) conv2d 3x3 8x8 M=3,N=3,P=256,Q=512 341263 (3.5 Macs/cycle) conv2d 11x7 8x8 M=1,N=7,P=256,Q=512 1339918 (2.6 Macs/cycle) conv2d 11x7 8x8 M=1,N=7,P=256,Q=512 173618 (5.6 Macs/cycle) conv2d 3x3 8x8 M=3,N=3,P=256,Q=556 174607 (3.1 Macs/cycle) conv2d 1x7 8x8 M=1,N=7,P=256,Q=256 674318 (2.4 Macs/cycle) conv2d 5x5 8x8 M=5,N=5,P=266,Q=256 674318 (2.4 Macs/cycle) conv2d 3x3 8x8 M=3,N=3,P=64,Q=64 12727 (2.9 Macs/cycle) conv2d 3x3 8x8 M=3,N=3,P=64,Q=64 12727 (2.9 Macs/cycle) conv2d 3x3 8x8 M=3,N=3,P=26,Q=66 45902 (2.2 Macs/cycle) conv2d 1x7 8x8 M=1,N=7,P=256,Q=512 271989 (4.3 Macs/cycle) conv2d 3x3 8x8 M=3,N=3,P=26,Q=64 12727 (2.9 Macs/cycle) conv2d 1x7 8x8 M=1,N=7,P=256,Q=512 1162336 (2.8 Macs/cycle) conv2d 3x3 8x16 M=5,N			
Exfir blmsf			
Section No. 80; M. 128			
2D convolution			
2D convolution	_		
Conv2d 3x3 8x8		N: 64; M: 128	1/389 (3.8 MACs/cycle)
Conv2d 5x5 8x8		M-3 N-3 D-256 0-512	3/10/20 /2 5 3/3/0-/1
Conv2d 11x7 8x8			
Conv2d 3x3 8x8			-
Conv2d 1x7 8x8			
Conv2d 11x7 8x8			
Conv2d 3x3 8x8			
Conv2d 5x5 8x8			
Conv2d 3x3 8x16			
Conv2d 5x5 8x16	conv2d 11x7 8x8	M=11, N=7, P=64, Q=64	62058 (5.1 MACs/cycle)
Conv2d 11x7 8x16	conv2d_3x3_8x16		
conv2d 3x3 8x16 M=3,N=3,P=256,Q=256 139893 (4.2 MACs/cycle) conv2d 5x5 8x16 M=5,N=5,P=256,Q=256 588256 (2.8 MACs/cycle) conv2d 1x7 8x16 M=1,N=7,P=256,Q=256 588256 (2.8 MACs/cycle) conv2d 1x7 8x16 M=1,N=7,P=256,Q=256 888611 (5.9 MACs/cycle) conv2d 3x3 8x16 M=3,N=3,P=64,Q=64 10486 (3.5 MACs/cycle) conv2d 1x7 8x16 M=5,N=5,P=64,Q=64 41344 (2.5 MACs/cycle) conv2d 3x3 16x16 M=1,N=7,P=64,Q=64 41344 (2.5 MACs/cycle) conv2d 3x3 16x16 M=1,N=7,P=256,Q=512 271970 (4.3 MACs/cycle) conv2d 3x3 16x16 M=5,N=5,P=256,Q=512 1160227 (2.8 MACs/cycle) conv2d 1x7 16x16 M=1,N=7,P=256,Q=512 1160227 (2.8 MACs/cycle) conv2d 3x3 16x16 M=3,N=3,P=256,Q=256 139874 (4.2 MACs/cycle) conv2d 3x3 16x16 M=3,N=3,P=256,Q=256 139874 (4.2 MACs/cycle) conv2d 3x3 16x16 M=1,N=7,P=256,Q=256 139874 (4.2 MACs/cycle) conv2d 3x3 16x16 M=1,N=7,P=256,Q=256 139874 (4.2 MACs/cycle) conv2d 3x3 16x16 M=1,N=7,P=256,Q=256 88854 (5.9 MACs/cycle) conv2d 3x3 16x16 M=1,N=7,P=256,Q=256 8	conv2d_5x5_8x16	M=5, N=5, P=256, Q=512	1162336 (2.8 MACs/cycle)
Conv2d 5x5 8x16	conv2d_11x7_8x16	M=11, N=7, P=256, Q=512	1698739 (5.9 MACs/cycle)
Conv2d 11x7 8x16			-
Conv2d 3x3 8x16			
Conv2d 5x5 8x16			
Conv2d 11x7 8x16			
Conv2d 3x3 16x16			
Conv2d 5x5 16x16			
Conv2d 11x7 16x16			-
Conv2d 3x3 16x16			
conv2d 5x5 16x16 M=5,N=5,P=256,Q=256 586147 (2.8 MACs/cycle) conv2d 11x7 16x16 M=11,N=7,P=256,Q=256 858554 (5.9 MACs/cycle) conv2d 3x3 16x16 M=3,N=3,P=64,Q=64 10466 (3.5 MACs/cycle) conv2d 5x5 16x16 M=5,N=5,P=64,Q=64 40771 (2.5 MACs/cycle) conv2d 11x7 16x16 M=11,N=7,P=64,Q=64 58346 (5.4 MACs/cycle) IIR Filters S12 (3.2 bqriir16x16 df1 N=256, M=1, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=2, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=3, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=8, gain			
conv2d 11x7 16x16 M=11,N=7,P=256,Q=256 858554 (5.9 MACs/cycle) conv2d 3x3 16x16 M=3,N=3,P=64,Q=64 10466 (3.5 MACs/cycle) conv2d 5x5 16x16 M=5,N=5,P=64,Q=64 40771 (2.5 MACs/cycle) conv2d 11x7 16x16 M=11,N=7,P=64,Q=64 58346 (5.4 MACs/cycle) IIR Filters Biquad Filters 812 (3.2 cycles/(biquad*pts)) bqriir16x16 df1 N=256, M=1, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=2, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=3, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=5, gain=0 3700 (2.4 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts)			
conv2d 3x3 16x16 M=3,N=3,P=64,Q=64 10466 (3.5 MACs/cycle) conv2d 5x5 16x16 M=5,N=5,P=64,Q=64 40771 (2.5 MACs/cycle) conv2d 11x7 16x16 M=11,N=7,P=64,Q=64 58346 (5.4 MACs/cycle) IIR Filters Biquad Filters 812 (3.2 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=1, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=2, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=3, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts)			
conv2d 5x5 16x16 M=5,N=5,P=64,Q=64 40771 (2.5 MACs/cycle) conv2d 11x7 16x16 M=11,N=7,P=64,Q=64 58346 (5.4 MACs/cycle) IIR Filters Biquad Filters 812 (3.2 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=1, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=2, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=3, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts)			
conv2d 11x7 16x16 M=11,N=7,P=64,Q=64 58346 (5.4 MACs/cycle) IIR Filters 812 (3.2 bqriir16x16 df1 N=256, M=1, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=2, gain=1 2008 (2.6 bqriir16x16 df1 N=256, M=3, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=7, gain=0 4892 (2.4 bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts) bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts)			
Biquad Filters bqriir16x16 df1 N=256, M=1, gain=0 bqriir16x16 df1 N=256, M=2, gain=1 cycles/(biquad*pts) 2008 (2.6 bqriir16x16 df1 N=256, M=3, gain=0 cycles/(biquad*pts) 2507 (2.4 bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) 2507 (2.4 cycles/(biquad*pts) 3199 (2.5 bqriir16x16 df1 N=256, M=5, gain=0 cycles/(biquad*pts) 3700 (2.4 bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) 3700 (2.4 bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) 4390 (2.4 cycles/(biquad*pts) 4892 (2.4 bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts) 1087 (2.7			
Biquad Filters bqriir16x16 df1 N=256, M=1, gain=0 bqriir16x16 df1 N=256, M=2, gain=1 cycles/(biquad*pts) 2008 (2.6 bqriir16x16 df1 N=256, M=3, gain=0 cycles/(biquad*pts) 2507 (2.4 bqriir16x16 df1 N=256, M=4, gain=1 cycles/(biquad*pts) 2507 (2.4 cycles/(biquad*pts) 3199 (2.5 bqriir16x16 df1 N=256, M=5, gain=0 cycles/(biquad*pts) 3700 (2.4 bqriir16x16 df1 N=256, M=6, gain=1 cycles/(biquad*pts) 3700 (2.4 bqriir16x16 df1 N=256, M=7, gain=0 cycles/(biquad*pts) 4390 (2.4 cycles/(biquad*pts) 4892 (2.4 bqriir16x16 df1 N=256, M=8, gain=1 cycles/(biquad*pts) 1087 (2.7			
bqriir16x16 df1	IIR Filters		
bqriir16x16_df1 N=256, M=1, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=2, gain=1 2008 (2.6 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=3, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=7, gain=0 4892 (2.4 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=8, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=8, gain=1 cycles/(biquad*pts)	Biquad Filters		
bqriir16x16_df1 N=256, M=2, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=3, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=8, gain=1 cycles/(biquad*pts) 1087_(2.7	bqriir16x16_df1	N=256, M=1, gain=0	cycles/(biquad*pts)
bqriir16x16_df1	bqriir16x16_df1	N=256, M=2, gain=1	cycles/(biquad*pts)
bqriir16x16_df1 N=256, M=4, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=5, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=8, gain=1 cycles/(biquad*pts) 1087_(2.7	bqriir16x16_df1	N=256, M=3, gain=0	•
bqriir16x16_df1	bqriir16x16_df1	N=256, M=4, gain=1	1
bqriir16x16_df1 N=256, M=6, gain=1 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=7, gain=0 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=8, gain=1 4892 (2.4 cycles/(biquad*pts) bqriir16x16_df1 N=256, M=8, gain=1 cycles/(biquad*pts) 1087 (2.7	bqriir16x16_df1	N=256, M=5, gain=0	cycles/(biquad*pts)
bqriir16x16_df1 N=256, M=7, gain=0 cycles/(biquad*pts) 4892 (2.4 bqriir16x16_df1 N=256, M=8, gain=1 cycles/(biquad*pts) 1087 (2.7	bqriir16x16_df1	N=256, M=6, gain=1	·
bqriir16x16_df1	bqriir16x16_df1	N=256, M=7, gain=0	·
1087 (2.7		-	4892 (2.4

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
bgriir16x16 df1	N=80, M=5, gain=1	1087 (2.7 cycles/(biquad*pts)
bqriir16x16 df2	N=256, M=1, gain=0	798 (3.1 cycles/(biquad*pts)
bgriir16x16 df2	N=256, M=2, gain=1	1319 (2.6 cycles/(biquad*pts)
bqriir16x16 df2	N=256, M=3, gain=0	1988 (2.6 cycles/(biquad*pts)
bgriir16x16 df2	N=256, M=4, gain=1	2511 (2.5 cycles/(biquad*pts)
bgriir16x16 df2	N=256, M=5, gain=0	3183 (2.5 cycles/(biquad*pts)
bgriir16x16 df2	N=256, M=6, gain=1	3702 (2.4 cycles/(biquad*pts)
bgriir16x16 df2	N=256, M=7, gain=0	4377 (2.4
		cycles/(biquad*pts) 4897 (2.4
bqriir16x16_df2	N=256, M=8, gain=1	cycles/(biquad*pts) 1070 (2.7
bqriir16x16_df2	N=80, M=5, gain=0	cycles/(biquad*pts) 1070 (2.7
bqriir16x16_df2	N=80, M=5, gain=1	cycles/(biquad*pts) 809 (3.2
bqriir32x16_df1	N=256, M=1, gain=0	cycles/(biquad*pts) 986 (1.9
bqriir32x16_df1	N=256, M=2, gain=1	cycles/(biquad*pts) 1631 (2.1
bqriir32x16_df1	N=256, M=3, gain=0	cycles/(biquad*pts) 1809 (1.8
bqriir32x16_df1	N=256, M=4, gain=1	cycles/(biquad*pts) 2454 (1.9
bqriir32x16_df1	N=256, M=5, gain=0	cycles/(biquad*pts) 2632 (1.7
bqriir32x16_df1	N=256, M=6, gain=1	cycles/(biquad*pts) 3277 (1.8
bqriir32x16_df1	N=256, M=7, gain=0	cycles/(biquad*pts) 3455 (1.7
bqriir32x16_df1	N=256, M=8, gain=1	cycles/(biquad*pts) 870 (2.2
bqriir32x16_df1	N=80, M=5, gain=0	cycles/(biquad*pts) 927 (2.3
bqriir32x16_df1	N=80, M=5, gain=1	cycles/(biquad*pts) 802 (3.1
bqriir32x16_df2	N=256, M=1, gain=0	cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=2, gain=1	1106 (2.2 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=3, gain=0	1744 (2.3 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=4, gain=1	2046 (2.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=5, gain=0	2684 (2.1 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=6, gain=1	2988 (1.9 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=7, gain=0	3624 (2.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=8, gain=1	3926 (1.9 cycles/(biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=0	924 (2.3 cycles/(biquad*pts)
bqriir32x16 df2	N=80, M=5, gain=1	981 (2.5 cycles/(biquad*pts)
bqriir32x32 df1	N=256, M=1, gain=0	797 (3.1 cycles/(biquad*pts)
bgriir32x32 df1	N=256, M=2, gain=1	977 (1.9 cycles/(biquad*pts)
bqriir32x32 df1	N=256, M=3, gain=0	1607 (2.1 cycles/(biquad*pts)
bgriir32x32 df1	N=256, M=4, gain=1	1782 (1.7 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=5, gain=0	2413 (1.9 cycles/(biquad*pts)
bqriir32x32 df1	N=256, M=6, gain=1	2586 (1.7 cycles/(biquad*pts)
bqriir32x32_df1		3214 (1.8
ndrittosxos_all	N=256, M=7, gain=0	cycles/(biquad*pts)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
bgriir32x32 df1	N=256, M=8, gain=1	3389 (1.7 cycles/(biquad*pts)
bqriir32x32 df1	N=80, M=5, gain=0	829 (2.1 cycles/(biquad*pts)
bqriir32x32 df1	N=80, M=5, gain=1	889 (2.2 cycles/(biquad*pts)
bgriir32x32 df2	N=256, M=1, gain=0	800 (3.1
-		cycles/(biquad*pts) 1603 (3.1
bqriir32x32_df2	N=256, M=2, gain=1	cycles/(biquad*pts) 2240 (2.9
bqriir32x32_df2	N=256, M=3, gain=0	cycles/(biquad*pts) 3041 (3.0
bqriir32x32_df2	N=256, M=4, gain=1	cycles/(biquad*pts) 3678 (2.9
bqriir32x32_df2	N=256, M=5, gain=0	cycles/(biquad*pts) 4479 (2.9
bqriir32x32_df2	N=256, M=6, gain=1	cycles/(biquad*pts) 5116 (2.9
bqriir32x32_df2	N=256, M=7, gain=0	cycles/(biquad*pts) 5917 (2.9
bqriir32x32_df2	N=256, M=8, gain=1	cycles/(biquad*pts)
bqriir32x32_df2	N=80, M=5, gain=0	cycles/(biquad*pts)
bqriir32x32_df2	N=80, M=5, gain=1	cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=1, gain=0	2281 (8.9 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=2, gain=1	3250 (6.3 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=3, gain=0	4761 (6.2 cycles/(biquad*pts)
stereo bqriir16x16 df1	N=256, M=4, gain=1	5733 (5.6 cycles/(biquad*pts)
stereo bqriir16x16 df1	N=256, M=5, gain=0	7221 (5.6 cycles/(biquad*pts)
stereo bqriir16x16 df1	N=256, M=6, gain=1	8197 (5.3 cycles/(biquad*pts)
stereo bgriir16x16 df1	N=256, M=7, gain=0	9682 (5.4 cycles/(biquad*pts)
stereo bqriir16x16 df1	N=256, M=8, gain=1	10661 (5.2
		cycles/(biquad*pts) 2385 (6.0
stereo_bqriir16x16_df1	N=80, M=5, gain=0	cycles/(biquad*pts) 2385 (6.0
stereo_bqriir16x16_df1	N=80, M=5, gain=1	cycles/(biquad*pts) 1598 (6.2
stereo_bqriir32x16_df1	N=256, M=1, gain=0	cycles/(biquad*pts) 3200 (6.3
stereo_bqriir32x16_df1	N=256, M=2, gain=1	cycles/(biquad*pts) 3741 (4.9
stereo_bqriir32x16_df1	N=256, M=3, gain=0	cycles/(biquad*pts) 5345 (5.2
stereo_bqriir32x16_df1	N=256, M=4, gain=1	cycles/(biquad*pts) 5887 (4.6
stereo_bqriir32x16_df1	N=256, M=5, gain=0	cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=6, gain=1	cycles/(biquad*pts) 8031 (4.5
stereo_bqriir32x16_df1	N=256, M=7, gain=0	cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=8, gain=1	9637 (4.7 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=80, M=5, gain=0	2015 (5.0 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=80, M=5, gain=1	2342 (5.9 cycles/(biquad*pts)
stereo bqriir32x32 df1	N=256, M=1, gain=0	1579 (6.2 cycles/(biquad*pts)
stereo bqriir32x32 df1	N=256, M=2, gain=1	2900 (5.7 cycles/(biquad*pts)
stereo bqriir32x32 df1	N=256, M=3, gain=0	3417 (4.4 cycles/(biquad*pts)
		4740 (4.6
stereo_bqriir32x32_df1	N=256, M=4, gain=1	cycles/(biquad*pts) 5259 (4.1
stereo_bqriir32x32_df1	N=256, M=5, gain=0	cycles/(biquad*pts)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
stereo_bqriir32x32_df1	N=256, M=6, gain=1	6582 (4.3 cycles/(biquad*pts)
stereo bqriir32x32 df1	N=256, M=7, gain=0	7099 (4.0 cycles/(biquad*pts)
stereo bqriir32x32 df1	N=256, M=8, gain=1	8422 (4.1 cycles/(biquad*pts)
stereo bqriir32x32 df1	N=80, M=5, gain=0	1739 (4.3 cycles/(biquad*pts)
stereo bgriir32x32 df1	N=80, M=5, gain=1	2068 (5.2 cycles/(biquad*pts)
bgriirf dfl	N=512, M=1	3415 (6.7 cycles/(biquad*pts)
bgriirf dfl	N=512, M=2	4697 (4.6 cycles/(biquad*pts)
bgriirf dfl	N=512, M=3	7800 (5.1 cycles/(biquad*pts)
bgriirf dfl	N=512, M=4	5851 (2.9 cycles/(biquad*pts)
		11392 (2.8
bqriirf_dfl	N=512, M=8	cycles/(biquad*pts) 16933 (2.8
bqriirf_df1	N=512, M=12	cycles/(biquad*pts) 22474 (2.7
bqriirf_df1	N=512, M=16	cycles/(biquad*pts) 2387 (4.7
bqriirf_df2	N=512, M=1	cycles/(biquad*pts) 4473 (4.4
bqriirf_df2	N=512, M=2	cycles/(biquad*pts) 6550 (4.3
bqriirf_df2	N=512, M=3	cycles/(biquad*pts) 5210 (2.5
bqriirf_df2	N=512, M=4	cycles/(biquad*pts) 10114 (2.5
bqriirf_df2	N=512, M=8	cycles/(biquad*pts) 15016 (2.4
bqriirf_df2	N=512, M=12	cycles/(biquad*pts) 19921 (2.4
bqriirf_df2	N=512, M=16	cycles/(biquad*pts) 4706 (9.2
bqriirf_df2t	N=512, M=1	cycles/(biquad*pts)
bqriirf_df2t	N=512, M=2	4427 (4.3 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=3	8821 (5.7 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=4	4849 (2.4 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=8	9385 (2.3 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=12	13923 (2.3 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=16	18457 (2.3 cycles/(biquad*pts)
bqciirf_df1	N=512, M=1	3134 (6.1 cycles/(biquad*pts)
bqciirf_df1	N=512, M=2	4956 (4.8 cycles/(biquad*pts)
bqciirf_df1	N=512, M=3	7539 (4.9 cycles/(biquad*pts)
bqciirf dfl	N=512, M=4	9866 (4.8 cycles/(biquad*pts)
bqciirf dfl	N=512, M=8	19181 (4.7 cycles/(biquad*pts)
bqciirf dfl	N=512, M=12	28496 (4.6 cycles/(biquad*pts)
bgciirf dfl	N=512, M=16	37813 (4.6 cycles/(biquad*pts)
stereo bgriirf dfl	,	3139 (6.1
	N=512, M=1	cycles/(biquad*pts) 5738 (5.6
stereo bqriirf dfl	N=512, M=2	cycles/(biquad*pts) 7823 (5.1
stereo_bqriirf_dfl	N=512, M=3	cycles/(biquad*pts) 10421 (5.1
stereo_bqriirf_dfl	N=512, M=4	cycles/(biquad*pts) 19787 (4.8
stereo_bqriirf_df1	N=512, M=8	cycles/(biquad*pts)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
stereo bgriirf dfl	N=512, M=12	29153 (4.7 cycles/(biquad*pts)
stereo bgriirf dfl	N=512, M=16	38518 (4.7 cycles/(biquad*pts)
Lattice Filters	3. 322, 3. 23	792 (3.1
latr16x16_process	N=256, M=1	cycles/(sample*M) 1566 (3.1
latr16x16_process	N=256, M=2	cycles/(sample*M)
latr16x16_process	N=256, M=3	1573 (2.0 cycles/(sample*M)
latr16x16_process	N=256, M=4	1957 (1.9 cycles/(sample*M)
latr16x16_process	N=256, M=5	2090 (1.6 cycles/(sample*M)
latr16x16_process	N=256, M=6	2080 (1.4 cycles/(sample*M)
latr16x16_process	N=256, M=7	2089 (1.2 cycles/(sample*M)
latr16x16_process	N=256, M=8	2601 (1.3 cycles/(sample*M)
latr16x16_process	N=256, M=9	11024 (4.8 cycles/(sample*M)
latr16x16 process	N=80, M=6	673 (1.4 cycles/(sample*M)
latr32x16 process	N=256, M=1	787 (3.1 cycles/(sample*M)
latr32x16 process	N=256, M=2	1042 (2.0 cycles/(sample*M)
latr32x16 process	N=256, M=3	1305 (1.7 cycles/(sample*M)
latr32x16 process	N=256, M=4	1814 (1.8 cycles/(sample*M)
		1815 (1.4
latr32x16_process	N=256, M=5	cycles/(sample*M) 2069 (1.3
latr32x16_process	N=256, M=6	cycles/(sample*M) 2204 (1.2
latr32x16_process	N=256, M=7	cycles/(sample*M) 2592 (1.3
latr32x16_process	N=256, M=8	cycles/(sample*M) 8979 (3.9
latr32x16_process	N=256, M=9	cycles/(sample*M) 662 (1.4
latr32x16_process	N=80, M=6	cycles/(sample*M) 794 (3.1
latr32x32_process	N=256, M=1	cycles/(sample*M) 1300 (2.5
latr32x32_process	N=256, M=2	cycles/(sample*M) 1815 (2.4
latr32x32_process	N=256, M=3	cycles/(sample*M) 1823 (1.8
latr32x32_process	N=256, M=4	cycles/(sample*M) 2072 (1.6
latr32x32_process	N=256, M=5	cycles/(sample*M) 2340 (1.5
latr32x32_process	N=256, M=6	cycles/(sample*M) 2854 (1.6
latr32x32_process	N=256, M=7	cycles/(sample*M) 3101 (1.5
latr32x32_process	N=256, M=8	cycles/(sample*M)
latr32x32_process	N=256, M=9	9874 (4.3 cycles/(sample*M)
latrf_process	N=256, M=1	1051 (4.1 cycles/(sample*M)
latrf_process	N=256, M=2	2084 (4.1 cycles/(sample*M)
latrf_process	N=256, M=3	3109 (4.0 cycles/(sample*M)
latrf_process	N=256, M=4	3367 (3.3 cycles/(sample*M)
latrf_process	N=256, M=5	3312 (2.6 cycles/(sample*M)
latrf process	N=256, M=6	3763 (2.4 cycles/(sample*M)
latrf_process	N=256, M=7	5376 (3.0

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
		cycles/(sample*M)
1-1-6	N-256 M-0	6401 (3.1
latrf_process	N=256, M=8	cycles/(sample*M) 13159 (5.7
latrf_process	N=256, M=9	cycles/(sample*M)
latrf process	N=80, M=6	1210 (2.5 cycles/(sample*M)
Tucii_piocess	N 007 11 0	eyeles/ (sample 11)
Math Functions Vectorized Math		
vectorized Math	N=200	2015 (10.1 cycles/pts)
vec recip32x32	N=200	2631 (13.2 cycles/pts)
vec_recip64x64	N=200	4333 (21.7 cycles/pts)
vec_divide16x16	N=200	2020 (10.1 cycles/pts)
vec_divide32x32	N=200	1494 (7.5 cycles/pts)
vec_divide64x32i vec_divide64x64	N=200 N=200	4333 (21.7 cycles/pts) 6269 (31.3 cycles/pts)
vec log2 32x32	N=200 N=200	928 (4.6 cycles/pts)
vec logn 32x32	N=200	1032 (5.2 cycles/pts)
vec_log10_32x32	N=200	1032 (5.2 cycles/pts)
vec_antilog2_32x32	N=200	584 (2.9 cycles/pts)
vec_antilogn_32x32	N=200	742 (3.7 cycles/pts)
vec_antilog10_32x32 vec_pow_32x32	N=200 N=200	742 (3.7 cycles/pts) 9242 (46.2 cycles/pts)
vec_pow_32x32 vec_sine32x32	N=200 N=200	739 (3.7 cycles/pts)
vec_sine32x32	N=200 N=200	739 (3.7 cycles/pts) 730 (3.6 cycles/pts)
vec tan32x32	N=200	2945 (14.7 cycles/pts)
vec_atan32x32	N=200	1030 (5.2 cycles/pts)
vec_sqrt16x16	N=200	1192 (6.0 cycles/pts)
vec_sqrt32x16 vec sqrt32x32	N=200 N=200	1571 (7.9 cycles/pts)
vec_sqrt32x32 vec sqrt64x32	N=200 N=200	1263 (6.3 cycles/pts) 1245 (6.2 cycles/pts)
vec_sqrt16x16	N=200	2308 (11.5 cycles/pts)
vec rsqrt32x32	N=200	2907 (14.5 cycles/pts)
vec_sigmoid32x32	N=200	1170 (5.8 cycles/pts)
vec_softmax32x32	N=200	1080 (5.4 cycles/pts)
vec_tanh32x32	N=200	1167 (5.8 cycles/pts)
vec_relu32x32 vec_int2float	N=200 N=200	218 (1.1 cycles/pts) 229 (1.1 cycles/pts)
vec_int2ff0dt vec_float2int	N=200 N=200	225 (1.1 cycles/pts) 225 (1.1 cycles/pts)
vec sinef	N=200	2997 (15.0 cycles/pts)
vec_cosinef	N=200	2955 (14.8 cycles/pts)
vec_tanf	N=200	3700 (18.5 cycles/pts)
vec_log2f vec_log10f	N=200 N=200	2544 (12.7 cycles/pts) 2516 (12.6 cycles/pts)
vec lognf	N=200 N=200	2373 (11.9 cycles/pts)
vec antilog2f	N=200	1145 (5.7 cycles/pts)
vec_antilognf	N=200	1148 (5.7 cycles/pts)
vec_antilog10f	N=200	1337 (6.7 cycles/pts)
vec_atanf	N=200	2445 (12.2 cycles/pts)
vec_atan2f vec_sigmoidf	N=200 N=200	3513 (17.6 cycles/pts) 3356 (16.8 cycles/pts)
vec_sigmoidi vec_softmaxf	N=200 N=200	1845 (9.2 cycles/pts)
vec tanhf	N=200	4278 (21.4 cycles/pts)
vec_reluf	N=200	216 (1.1 cycles/pts)
Vectorized Fast Math		
vec_divide16x16_fast	N=200	1143 (5.7 cycles/pts)
vec_divide32x32_fast vec_sine32x32_fast	N=200 N=200	1631 (8.2 cycles/pts) 727 (3.6 cycles/pts)
vec_sine32x32_last vec_cosine32x32_fast	N=200 N=200	727 (3.6 cycles/pts) 728 (3.6 cycles/pts)
vec sqrt32x32 fast	N=200	1172 (5.9 cycles/pts)
Scalar Math		
scl_recip16x16		27 (cycles)
scl_recip32x32		30 (cycles)
scl_recip64x64 scl_divide16x16		53 (cycles) 33 (cycles)
scl_divide16x16 scl_divide32x32	+	27 (cycles)
scl divide64x32		42 (cycles)
scl_divide64x64		60 (cycles)
scl_log2_32x32		17 (cycles)
scl_logn_32x32		21 (cycles)
scl log10 32x32		21 (cycles)
scl antilog2 32x32		14 (cycles)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
scl antilog10 32x32		18 (cycles)
scl_sqrt16x16		25 (cycles)
scl_sqrt32x16		27 (cycles)
scl_sqrt32x32		20 (cycles)
scl_sqrt64x32 scl sine32x32		32 (cycles) 16 (cycles)
scl_sine32x32 scl_cosine32x32		16 (cycles)
scl tan32x32		44 (cycles)
scl_atan32x32		21 (cycles)
scl_rsqrt16x16		34 (cycles)
scl_rsqrt32x32		42 (cycles)
scl_sigmoid32x32 scl tanh32x32		30 (cycles) 30 (cycles)
scl relu32x32		2 (cycles)
scl int2float		2 (cycles)
scl_float2int		7 (cycles)
scl_sinef		81 (cycles)
scl_cosinef		81 (cycles)
scl_tanf	x=0.4	82 (cycles)
scl_tanf	x=1.2	100 (cycles)
scl_log2f scl log10f		61 (cycles) 61 (cycles)
scl lognf	+	62 (cycles)
scl antilog2f		36 (cycles)
scl_antilog10f		36 (cycles)
scl_antilognf		35 (cycles)
scl_atanf	x=0.7	44 (cycles)
scl_atanf	x=1.3	62 (cycles)
scl_atan2f scl sigmoidf		81 (cycles) 75 (cycles)
scl_sigmoral scl tanhf		87 (cycles)
scl reluf		6 (cycles)
		1 (01000)
Complex Functions		
Vectorized Complex Math		
vec_complex2mag	N=200	3415 (17.1 cycles/pts)
vec_complex2invmag Scalar Complex Math	N=200	2567 (12.8 cycles/pts)
scl complex2mag		67 (cycles)
scl complex2invmag		63 (cycles)
		(0,1000)
Vector Operations		
vec_dot16x16	N=200	118 (0.6 cycles/pts)
vec_dot32x16	x aligned, N=200	119 (0.6 cycles/pts)
vec_dot32x16	x unaligned, N=200	119 (0.6 cycles/pts)
vec_dot32x32 vec_dot32x32	x aligned, N=200 x unaligned, N=200	121 (0.6 cycles/pts) 119 (0.6 cycles/pts)
vec_dot32x32	N=200	221 (1.1 cycles/pts)
vec dot64x64	N=200	220 (1.1 cycles/pts)
vec_dot64x64i	N=200	213 (1.1 cycles/pts)
vec_dot16x16_fast	N=200	64 (0.3 cycles/pts)
vec_dot32x16_fast	N=200	85 (0.4 cycles/pts)
vec_dot32x32_fast vec_dot64x32_fast	N=200 N=200	114 (0.6 cycles/pts) 215 (1.1 cycles/pts)
vec_dot64x64 fast	N=200 N=200	215 (1.1 cycles/pts) 215 (1.1 cycles/pts)
vec dot64x64i fast	N=200	210 (1.0 cycles/pts)
vec_add16x16	x aligned, N=200	125 (0.6 cycles/pts)
vec_add16x16	x unaligned, N=200	132 (0.7 cycles/pts)
vec_add32x32	x aligned, N=200	213 (1.1 cycles/pts)
vec_add32x32	x unaligned, N=200	212 (1.1 cycles/pts)
vec_add16x16_fast vec_add32x32_fast	N=200 N=200	89 (0.4 cycles/pts) 160 (0.8 cycles/pts)
vec_add32x32_fast vec_power16x16	x aligned, N=200	42 (0.2 cycles/pts)
vec_power16x16	x unaligned, N=200	55 (0.3 cycles/pts)
vec_power32x32	x aligned, N=200	71 (0.4 cycles/pts)
vec_power32x32	x unaligned, N=200	70 (0.3 cycles/pts)
vec_power16x16_fast	N=200	39 (0.2 cycles/pts)
vec_power32x32_fast	N=200	60 (0.3 cycles/pts)
ahif+1616	shift>0, x aligned, N=200	123 (0.6 cycles/pts)
vec_shift16x16		
vec_shift16x16	shift>0, x unaligned, N=200	123 (0.6 cycles/pts)
vec_shift16x16 vec_shift16x16	shift>0, x unaligned, N=200 shift<0, x aligned, N=200	123 (0.6 cycles/pts) 82 (0.4 cycles/pts)
vec_shift16x16	shift>0, x unaligned, N=200	123 (0.6 cycles/pts)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
vec scale16x16	x aligned, N=200	78 (0.4 cycles/pts)
vec_scale16x16	x unaligned, N=200	89 (0.4 cycles/pts)
vec_scale32x32	x aligned, N=200	120 (0.6 cycles/pts)
vec_scale32x32	x unaligned, N=200	122 (0.6 cycles/pts)
vec_shift16x16_fast	shift>0, N=200	104 (0.5 cycles/pts)
vec_shift16x16_fast	shift<0, N=200	72 (0.4 cycles/pts)
vec_shift32x32_fast vec_scale16x16_fast	N=200 N=200	114 (0.6 cycles/pts) 62 (0.3 cycles/pts)
vec_scale10x10_1ast vec scale32x32 fast	N=200 N=200	112 (0.6 cycles/pts)
vec max16x16	x aligned, N=200	125 (0.6 cycles/pts)
vec max16x16	x unaligned, N=200	125 (0.6 cycles/pts)
vec_min16x16	x aligned, N=200	125 (0.6 cycles/pts)
vec_min16x16	x unaligned, N=200	125 (0.6 cycles/pts)
vec_max32x32	N=200	124 (0.6 cycles/pts)
vec_min32x32	N=200	124 (0.6 cycles/pts)
vec_max16x16_fast	N=200	67 (0.3 cycles/pts)
vec_min16x16_fast vec_max32x32_fast	N=200 N=200	66 (0.3 cycles/pts) 86 (0.4 cycles/pts)
vec_max32x32_rast vec_min32x32_fast	N=200	86 (0.4 cycles/pts)
vec bexp16	N=200	119 (0.6 cycles/pts)
vec bexp32	N=200	119 (0.6 cycles/pts)
vec_bexp16_fast	N=200	99 (0.5 cycles/pts)
vec_bexp32_fast	N=200	95 (0.5 cycles/pts)
scl_bexp16		5 (cycles)
scl_bexp32		3 (cycles)
vec_dotf	N=200 N=200	236 (1.2 cycles/pts)
vec_addf vec powerf	N=200 N=200	222 (1.1 cycles/pts) 114 (0.6 cycles/pts)
vec_powerr vec_shiftf	N=200 N=200	224 (1.1 cycles/pts)
vec scalef	N=200	214 (1.1 cycles/pts)
vec scale sf	N=200	231 (1.2 cycles/pts)
vec_minf	N=200	117 (0.6 cycles/pts)
vec_maxf	N=200	112 (0.6 cycles/pts)
vec_bexpf	N=200	127 (0.6 cycles/pts)
scl_bexpf		7 (cycles)
Emulated Floating Point		
Operations		
vec add 32x16ef	N=200	1451 (7.3 cycles/pts)
vec_mul_32x16ef	N=200	1033 (5.2 cycles/pts)
vec_mac_32x16ef	N=200	2026 (10.1 cycles/pts)
vec_dot_32x16ef	N=200	1076 (5.4 cycles/pts)
scl_add_32x16ef		23 (cycles)
scl_mul_32x16ef scl mac 32x16ef		13 (cycles) 27 (cycles)
SCI_Mac_32x16e1		27 (Cycles)
Matrix Operations		
mtx mpy8x8	16x16 x 16x16	4364 (0.9 MACs/cycle)
mtx_mpy8x8	32x32 x 32x32	28290 (1.2 MACs/cycle)
mtx_mpy8x8	40x80 x 80x8	19358 (1.3 MACs/cycle)
mtx_mpy8x8	40x81 x 81x8	20199 (1.3 MACs/cycle)
mtx_mpy8x8	40x82 x 82x8	19799 (1.3 MACs/cycle)
mtx_mpy8x8 mtx mpy8x8	40x83 x 83x8 2x100 x 100x8	20639 (1.3 MACs/cycle) 1301 (1.2 MACs/cycle)
mtx mpy8x8	8x80 x 80x2	1128 (1.1 MACs/cycle)
mtx mpy8x8	8x4 x 4x2	296 (0.2 MACs/cycle)
mtx mpy8x8	8x16 x 16x2	424 (0.6 MACs/cycle)
mtx mpy8x8	8x32 x 32x2	599 (0.9 MACs/cycle)
mtx_mpy8x8_fast	16x16 x 16x16	2093 (2.0 MACs/cycle)
mtx_mpy8x8_fast	32x32 x 32x32	12381 (2.6 MACs/cycle)
mtx_mpy8x8_fast	8x80 x 80x4	853 (3.0 MACs/cycle)
mtx_mpy8x8_fast	8x84 x 84x4	845 (3.2 MACs/cycle)
mtx_mpy8x8_fast mtx mpy8x8 fast	8x4 x 4x4 8x16 x 16x4	209 (0.6 MACs/cycle) 309 (1.7 MACs/cycle)
mtx mpy8x8 fast	8x32 x 32x4	445 (2.3 MACs/cycle)
mtx mpyt8x8	16x16 x 16x16	4642 (0.9 MACs/cycle)
mtx mpyt8x8	32x32 x 32x32	29327 (1.1 MACs/cycle)
mtx_mpyt8x8	40x80 x 80x8	19740 (1.3 MACs/cycle)
mtx_mpyt8x8	40x81 x 81x8	20484 (1.3 MACs/cycle)
mtx_mpyt8x8	40x82 x 82x8	20300 (1.3 MACs/cycle)
mtx_mpyt8x8	40x83 x 83x8	21020 (1.3 MACs/cycle)
mtx_mpyt8x8	2x100 x 100x8	1340 (1.2 MACs/cycle)
mtx_mpyt8x8	8x80 x 80x2	1123 (1.1 MACs/cycle)
mtx_mpyt8x8	8x4 x 4x2	289 (0.2 MACs/cycle)

Function name		Cycles Measurements
	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
mtx_mpyt8x8	8x16 x 16x2	419 (0.6 MACs/cycle)
mtx_mpyt8x8	8x32 x 32x2	595 (0.9 MACs/cycle)
mtx_mpyt8x8_fast	16x16 x 16x16	1766 (2.3 MACs/cycle)
mtx_mpyt8x8_fast mtx_mpyt8x8_fast	32x32 x 32x32 8x80 x 80x4	10327 (3.2 MACs/cycle) 702 (3.6 MACs/cycle)
mtx mpyt8x8 fast	8x84 x 84x4	606 (4.4 MACs/cycle)
mtx mpyt8x8 fast	8x4 x 4x4	166 (0.8 MACs/cycle)
mtx_mpyt8x8_fast	8x16 x 16x4	254 (2.0 MACs/cycle)
mtx_mpyt8x8_fast	8x32 x 32x4	366 (2.8 MACs/cycle)
mtx_mpy8x16	16x16 x 16x16	3223 (1.3 MACs/cycle)
mtx_mpy8x16 mtx_mpy8x16	32x32 x 32x32 40x80 x 80x8	17974 (1.8 MACs/cycle) 11212 (2.3 MACs/cycle)
mtx mpy8x16	40x80 x 80x8	11446 (2.3 MACs/cycle)
mtx mpy8x16	40x82 x 82x8	11467 (2.3 MACs/cycle)
mtx_mpy8x16	40x83 x 83x8	11709 (2.3 MACs/cycle)
mtx_mpy8x16	2x100 x 100x8	1535 (1.0 MACs/cycle)
mtx_mpy8x16	8x80 x 80x2	1181 (1.1 MACs/cycle)
mtx_mpy8x16	8x4 x 4x2	265 (0.2 MACs/cycle)
mtx_mpy8x16 mtx mpy8x16	8x16 x 16x2 8x32 x 32x2	413 (0.6 MACs/cycle) 605 (0.8 MACs/cycle)
mtx_mpy8x16 mtx mpy8x16 fast	16x16 x 16x16	1679 (2.4 MACs/cycle)
mtx mpy8x16 fast	32x32 x 32x32	10575 (3.1 MACs/cycle)
mtx_mpy8x16_fast	8x80 x 80x4	748 (3.4 MACs/cycle)
mtx_mpy8x16_fast	8x84 x 84x4	703 (3.8 MACs/cycle)
mtx_mpy8x16_fast	8x4 x 4x4	147 (0.9 MACs/cycle)
mtx_mpy8x16_fast	8x16 x 16x4	235 (2.2 MACs/cycle)
mtx_mpy8x16_fast mtx_mpyt8x16	8x32 x 32x4 16x16 x 16x16	363 (2.8 MACs/cycle) 3139 (1.3 MACs/cycle)
mtx mpyt8x16	32x32 x 32x32	13247 (2.5 MACs/cycle)
mtx mpyt8x16	40x80 x 80x8	9162 (2.8 MACs/cycle)
mtx mpyt8x16	40x81 x 81x8	9506 (2.7 MACs/cycle)
mtx_mpyt8x16	40x82 x 82x8	9587 (2.7 MACs/cycle)
mtx_mpyt8x16	40x83 x 83x8	9982 (2.7 MACs/cycle)
mtx_mpyt8x16	2x100 x 100x8	896 (1.8 MACs/cycle)
mtx_mpyt8x16 mtx_mpyt8x16	8x80 x 80x2 8x4 x 4x2	1120 (1.1 MACs/cycle) 362 (0.2 MACs/cycle)
mtx mpyt8x16	8x16 x 16x2	480 (0.5 MACs/cycle)
mtx mpyt8x16	8x32 x 32x2	639 (0.8 MACs/cycle)
mtx mpyt8x16 fast	16x16 x 16x16	1431 (2.9 MACs/cycle)
mtx mpyt8x16 fast	32x32 x 32x32	8192 (4.0 MACs/cycle)
mtx_mpyt8x16_fast	8x80 x 80x4	529 (4.8 MACs/cycle)
mtx_mpyt8x16_fast	8x84 x 84x4	545 (4.9 MACs/cycle)
mtx_mpyt8x16_fast	8x4 x 4x4	145 (0.9 MACs/cycle) 205 (2.5 MACs/cycle)
mtx_mpyt8x16_fast mtx mpyt8x16 fast	8x16 x 16x4 8x32 x 32x4	205 (2.5 MACS/Cycle) 289 (3.5 MACS/cycle)
mtx mpy16x16	16x16 x 16x16	1701 (2.4 MACs/cycle)
mtx mpy16x16	32x32 x 32x32	8427 (3.9 MACs/cycle)
mtx_mpy16x16	40x80 x 80x8	4779 (5.4 MACs/cycle)
mtx_mpy16x16	40x81 x 81x8	5012 (5.2 MACs/cycle)
mtx_mpy16x16	40x82 x 82x8	5020 (5.2 MACs/cycle)
mtx_mpy16x16 mtx mpy16x16	40x83 x 83x8 40x84 x 84x8	5033 (5.3 MACs/cycle) 5040 (5.3 MACs/cycle)
mtx_mpy16x16 mtx mpy16x16	40x84 x 84x8 40x85 x 85x8	5193 (5.2 MACs/cycle)
mtx mpy16x16	40x86 x 86x8	5201 (5.3 MACs/cycle)
mtx_mpy16x16	40x87 x 87x8	5214 (5.3 MACs/cycle)
mtx_mpy16x16	40x88 x 88x8	5141 (5.5 MACs/cycle)
mtx_mpy16x16	2x100 x 100x8	900 (1.8 MACs/cycle)
mtx_mpy16x16	8x80 x 80x2	663 (1.9 MACs/cycle)
mtx_mpy16x16 mtx mpy16x16	8x4 x 4x2 8x16 x 16x2	199 (0.3 MACs/cycle) 279 (0.9 MACs/cycle)
mtx_mpy16x16 mtx mpy16x16	8x16 x 16x2 8x32 x 32x2	374 (1.4 MACs/cycle)
mtx mpy16x16 fast	16x16 x 16x16	1679 (2.4 MACs/cycle)
mtx_mpy16x16_fast	32x32 x 32x32	10576 (3.1 MACs/cycle)
mtx_mpy16x16_fast	8x80 x 80x4	747 (3.4 MACs/cycle)
mtx_mpy16x16_fast	8x84 x 84x4	779 (3.5 MACs/cycle)
mtx_mpy16x16_fast	8x4 x 4x4	143 (0.9 MACs/cycle)
mtx_mpy16x16_fast	8x16 x 16x4	235 (2.2 MACs/cycle)
mtx_mpy16x16_fast	8x32 x 32x4	363 (2.8 MACs/cycle)
mtx_mpyt16x16 mtx mpyt16x16	16x16 x 16x16 32x32 x 32x32	1554 (2.6 MACs/cycle) 7862 (4.2 MACs/cycle)
mtx mpyt16x16	40x80 x 80x8	4513 (5.7 MACs/cycle)
mtx mpyt16x16	40x81 x 81x8	4681 (5.5 MACs/cycle)
mtx mpyt16x16	40x82 x 82x8	4688 (5.6 MACs/cycle)
mtx mpyt16x16	40x83 x 83x8	4700 (5.7 MACs/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
mtx_mpyt16x16	2x100 x 100x8	659 (2.4 MACs/cycle)
mtx_mpyt16x16	8x80 x 80x2	589 (2.2 MACs/cycle)
mtx_mpyt16x16	8x4 x 4x2	202 (0.3 MACs/cycle)
mtx_mpyt16x16	8x16 x 16x2	261 (1.0 MACs/cycle)
mtx_mpyt16x16 mtx mpyt16x16 fast	8x32 x 32x2 16x16 x 16x16	342 (1.5 MACs/cycle) 1463 (2.8 MACs/cycle)
mtx mpyt16x16 fast	32x32 x 32x32	7808 (4.2 MACs/cycle)
mtx mpyt16x16 fast	8x80 x 80x4	469 (5.5 MACs/cycle)
mtx_mpyt16x16_fast	8x84 x 84x4	481 (5.6 MACs/cycle)
mtx_mpyt16x16_fast	8x4 x 4x4	145 (0.9 MACs/cycle)
mtx_mpyt16x16_fast	8x16 x 16x4	209 (2.4 MACs/cycle)
mtx_mpyt16x16_fast mtx mpy32x32	8x32 x 32x4 16x16 x 16x16	277 (3.7 MACs/cycle) 2870 (1.4 MACs/cycle)
mtx mpy32x32	32x32 x 32x32	14838 (2.2 MACs/cycle)
mtx mpy32x32	40x80 x 80x8	9055 (2.8 MACs/cycle)
mtx_mpy32x32	40x81 x 81x8	9319 (2.8 MACs/cycle)
mtx_mpy32x32	40x82 x 82x8	9309 (2.8 MACs/cycle)
mtx_mpy32x32	40x83 x 83x8	9615 (2.8 MACs/cycle)
mtx_mpy32x32	2x100 x 100x8	1443 (1.1 MACs/cycle)
mtx_mpy32x32	8x80 x 80x2	811 (1.6 MACs/cycle)
mtx_mpy32x32 mtx mpy32x32	8x4 x 4x2 8x16 x 16x2	162 (0.4 MACs/cycle) 267 (1.0 MACs/cycle)
mtx mpy32x32	8x32 x 32x2	402 (1.3 MACs/cycle)
mtx mpy32x32 fast	16x16 x 16x16	1838 (2.2 MACs/cycle)
mtx_mpy32x32_fast	32x32 x 32x32	11822 (2.8 MACs/cycle)
mtx_mpy32x32_fast	8x80 x 80x4	824 (3.1 MACs/cycle)
mtx_mpy32x32_fast	8x84 x 84x4	860 (3.1 MACs/cycle)
mtx_mpy32x32_fast	8x4 x 4x4	144 (0.9 MACs/cycle)
mtx_mpy32x32_fast mtx_mpy32x32_fast	8x16 x 16x4 8x32 x 32x4	248 (2.1 MACs/cycle) 392 (2.6 MACs/cycle)
mtx mpy32x32_rast	16x16 x 16x16	3492 (1.2 MACs/cycle)
mtx mpyt32x32	32x32 x 32x32	19556 (1.7 MACs/cycle)
mtx_mpyt32x32	40x80 x 80x8	12108 (2.1 MACs/cycle)
mtx_mpyt32x32	40x81 x 81x8	12324 (2.1 MACs/cycle)
mtx_mpyt32x32	40x82 x 82x8	12280 (2.1 MACs/cycle)
mtx_mpyt32x32	40x83 x 83x8 2x100 x 100x8	12658 (2.1 MACs/cycle)
mtx_mpyt32x32 mtx mpyt32x32	8x80 x 80x2	1442 (1.1 MACs/cycle) 760 (1.7 MACs/cycle)
mtx mpyt32x32	8x4 x 4x2	198 (0.3 MACs/cycle)
mtx mpyt32x32	8x16 x 16x2	280 (0.9 MACs/cycle)
mtx_mpyt32x32	8x32 x 32x2	400 (1.3 MACs/cycle)
mtx_mpyt32x32_fast	16x16 x 16x16	1711 (2.4 MACs/cycle)
mtx_mpyt32x32_fast	32x32 x 32x32	10768 (3.0 MACs/cycle)
mtx_mpyt32x32_fast mtx_mpyt32x32_fast	8x80 x 80x4 8x84 x 84x4	747 (3.4 MACs/cycle) 779 (3.5 MACs/cycle)
mtx mpyt32x32 fast	8x4 x 4x4	148 (0.9 MACs/cycle)
mtx mpyt32x32 fast	8x16 x 16x4	236 (2.2 MACs/cycle)
mtx_mpyt32x32_fast	8x32 x 32x4	363 (2.8 MACs/cycle)
mtx_vecmpy8x8	16x100 x 100x1	2036 (0.8 MACs/cycle)
mtx_vecmpy8x8	16x104 x 104x1	2108 (0.8 MACs/cycle)
mtx_vecmpy8x8 mtx vecmpy8x8 fast	40x40 x 40x1 16x100 x 100x1	2312 (0.7 MACs/cycle) 392 (4.1 MACs/cycle)
mtx_vecmpy8x8_fast	16x100 x 100x1 16x104 x 104x1	400 (4.2 MACs/cycle)
mtx vecmpy8x8 fast	40x40 x 40x1	490 (3.3 MACs/cycle)
mtx_vecmpy8x16	16x100 x 100x1	1918 (0.8 MACs/cycle)
mtx_vecmpy8x16	16x104 x 104x1	1982 (0.8 MACs/cycle)
mtx_vecmpy8x16	40x40 x 40x1	2350 (0.7 MACs/cycle)
mtx_vecmpy8x16_fast	16x100 x 100x1 16x104 x 104x1	387 (4.1 MACs/cycle)
mtx_vecmpy8x16_fast mtx vecmpy8x16 fast	40x40 x 40x1	333 (5.0 MACs/cycle) 401 (4.0 MACs/cycle)
mtx vecmpy0x10_1ast	16x100 x 100x1	748 (2.1 MACs/cycle)
mtx_vecmpy16x16	16x104 x 104x1	695 (2.4 MACs/cycle)
mtx_vecmpy16x16	40x40 x 40x1	896 (1.8 MACs/cycle)
mtx_vecmpy16x16_fast	16x100 x 100x1	322 (5.0 MACs/cycle)
mtx_vecmpy16x16_fast	16x104 x 104x1	327 (5.1 MACs/cycle)
mtx_vecmpy16x16_fast mtx_vecmpy32x32	40x40 x 40x1 16x100 x 100x1	395 (4.1 MACs/cycle) 1390 (1.2 MACs/cycle)
mtx_vecmpy32x32 mtx vecmpy32x32	16x100 x 100x1 16x101 x 101x1	1390 (1.2 MACS/CYCIE) 1387 (1.2 MACS/CYCIE)
mtx vecmpy32x32	16x102 x 102x1	1406 (1.2 MACs/cycle)
mtx_vecmpy32x32	16x103 x 103x1	1402 (1.2 MACs/cycle)
mtx_vecmpy32x32	16x104 x 104x1	1438 (1.2 MACs/cycle)
mtx_vecmpy32x32	40x40 x 40x1	1642 (1.0 MACs/cycle)
mtx_vecmpy32x32_fast	16x100 x 100x1	578 (2.8 MACs/cycle)
mtx_vecmpy32x32_fast	16x104 x 104x1	598 (2.8 MACs/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
mtx_vecmpy32x32_fast	40x40 x 40x1	674 (2.4 MACs/cycle)
mtx_transpose8x8	M=16, N=16	629 (0.41 pts/cycle)
mtx_transpose8x8	M=27, N=27	1652 (0.44 pts/cycle)
mtx_transpose8x8 mtx_transpose8x8	M=32, N=32 M=39, N=39	2277 (0.45 pts/cycle) 3320 (0.46 pts/cycle)
mtx transpose8x8	M=48, N=48	4949 (0.47 pts/cycle)
mtx transpose8x8 fast	M=8, N=8	72 (0.89 pts/cycle)
mtx_transpose8x8_fast	M=16, N=16	188 (1.36 pts/cycle)
mtx_transpose8x8_fast	M=32, N=32	586 (1.75 pts/cycle)
mtx_transpose8x8_fast	M=48, N=48	1200 (1.92 pts/cycle)
mtx_transpose16x16 mtx_transpose16x16	M=16, N=16 M=27, N=27	534 (0.48 pts/cycle) 1301 (0.56 pts/cycle)
mtx transpose16x16	M=32, N=32	1630 (0.63 pts/cycle)
mtx transpose16x16	M=39, N=39	2338 (0.65 pts/cycle)
mtx_transpose16x16	M=48, N=48	3302 (0.70 pts/cycle)
mtx_transpose16x16_fast	M=8, N=8	65 (0.98 pts/cycle)
mtx_transpose16x16_fast	M=16, N=16	195 (1.31 pts/cycle)
mtx_transpose16x16_fast	M=32, N=32	567 (1.81 pts/cycle)
mtx_transpose16x16_fast mtx transpose32x32	M=48, N=48 M=16, N=16	1159 (1.99 pts/cycle) 436 (0.59 pts/cycle)
mtx_transpose32x32 mtx_transpose32x32	M=16, N=16 M=27, N=27	985 (0.74 pts/cycle)
mtx transpose32x32	M=32, N=32	1502 (0.68 pts/cycle)
mtx_transpose32x32	M=39, N=39	1884 (0.81 pts/cycle)
mtx_transpose32x32	M=48, N=48	3204 (0.72 pts/cycle)
mtx_transpose32x32_fast	M=8,N=8	81 (0.79 pts/cycle)
mtx_transpose32x32_fast	M=16, N=16	248 (1.03 pts/cycle)
mtx_transpose32x32_fast	M=32, N=32	876 (1.17 pts/cycle)
mtx_transpose32x32_fast mtx mpyf	M=48, N=48 16x16 x 16x16	1888 (1.22 pts/cycle) 1909 (2.1 MACs/cycle)
mtx mpyf	32x32 x 32x32	13002 (2.5 MACs/cycle)
mtx mpyf	40x80 x 80x8	9524 (2.7 MACs/cycle)
mtx_mpyf	40x81 x 81x8	9643 (2.7 MACs/cycle)
mtx_mpyf	40x82 x 82x8	9724 (2.7 MACs/cycle)
mtx_mpyf	40x83 x 83x8	9864 (2.7 MACs/cycle)
mtx_mpyf	2x100 x 100x8	2903 (0.6 MACs/cycle)
mtx_mpyf mtx mpyf	8x80 x 80x2 8x4 x 4x2	845 (1.5 MACs/cycle) 159 (0.4 MACs/cycle)
mtx mpyf	8x16 x 16x2	268 (1.0 MACs/cycle)
mtx mpyf	8x32 x 32x2	413 (1.2 MACs/cycle)
mtx_mpyf_fast	16x16 x 16x16	2077 (2.0 MACs/cycle)
mtx_mpyf_fast	32x32 x 32x32	13260 (2.5 MACs/cycle)
mtx_mpyf_fast	8x80 x 80x4	918 (2.8 MACs/cycle)
mtx_mpyf_fast	8x84 x 84x4	959 (2.8 MACs/cycle)
mtx_mpyf_fast mtx mpyf fast	8x4 x 4x4 8x16 x 16x4	155 (0.8 MACs/cycle) 278 (1.8 MACs/cycle)
mtx mpyf fast	8x32 x 32x4	439 (2.3 MACs/cycle)
mtx mpytf	16x16 x 16x16	2065 (2.0 MACs/cycle)
mtx mpytf	32x32 x 32x32	11957 (2.7 MACs/cycle)
mtx_mpytf	40x80 x 80x8	7911 (3.2 MACs/cycle)
mtx_mpytf	40x81 x 81x8	7999 (3.2 MACs/cycle)
mtx_mpytf	40x82 x 82x8	8043 (3.3 MACs/cycle)
mtx_mpytf mtx mpytf	40x83 x 83x8 2x100 x 100x8	8031 (3.3 MACs/cycle) 1729 (0.9 MACs/cycle)
mtx mpytf	8x80 x 80x2	784 (1.6 MACs/cycle)
mtx_mpytf	8x4 x 4x2	176 (0.4 MACs/cycle)
mtx_mpytf	8x16 x 16x2	272 (0.9 MACs/cycle)
mtx_mpytf	8x32 x 32x2	399 (1.3 MACs/cycle)
mtx_mpytf_fast	16x16 x 16x16	2005 (2.0 MACs/cycle)
mtx_mpytf_fast	32x32 x 32x32 8x80 x 80x4	11933 (2.7 MACs/cycle) 784 (3.3 MACs/cycle)
mtx_mpytf_fast mtx mpytf fast	8x80 x 80x4 8x84 x 84x4	817 (3.3 MACs/cycle)
mtx mpytf fast	8x4 x 4x4	175 (0.7 MACs/cycle)
mtx mpytf fast	8x16 x 16x4	271 (1.9 MACs/cycle)
mtx_mpytf_fast	8x32 x 32x4	399 (2.6 MACs/cycle)
mtx_vecmpyf	16x100 x 100x1	1065 (1.5 MACs/cycle)
mtx_vecmpyf	16x101 x 101x1	1016 (1.6 MACs/cycle)
mtx_vecmpyf	16x102 x 102x1	1083 (1.5 MACs/cycle)
mtx_vecmpyf	16x103 x 103x1 16x104 x 104x1	1035 (1.6 MACs/cycle)
mtx_vecmpyf mtx_vecmpyf	16x104 x 104x1 40x40 x 40x1	1101 (1.5 MACs/cycle) 1264 (1.3 MACs/cycle)
mtx_vecmpy1 mtx_vecmpyf fast	16x100 x 100x1	614 (2.6 MACs/cycle)
mtx vecmpy1 fast	16x100 x 100x1	634 (2.6 MACs/cycle)
mtx_vecmpyf_fast	40×40 × 40×1	770 (2.1 MACs/cycle)
mtx transposef	M=16, N=16	444 (0.58 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
mtx transposef	M=27, N=27	993 (0.73 pts/cycle)
mtx_transposef	M=32, N=32	1508 (0.68 pts/cycle)
mtx_transposef	M=39, N=39	1892 (0.80 pts/cycle)
mtx_transposef	M=48, N=48	3212 (0.72 pts/cycle)
mtx_transposef_fast mtx transposef fast	M=8, N=8 M=16, N=16	89 (0.72 pts/cycle) 256 (1.00 pts/cycle)
mtx transposef fast	M=32, N=32	884 (1.16 pts/cycle)
mtx_transposef_fast	M=48, N=48	1894 (1.22 pts/cycle)
Matrix Decomposition and		
Inversion		361 (361.0
cmtx_inv2x2_32x32		cycles/matrix) 683 (683.0
cmtx_inv3x3_32x32		cycles/matrix) 1240 (1240.0
cmtx_inv4x4_32x32		cycles/matrix) 3269 (3269.0
cmtx_inv6x6_32x32		cycles/matrix) 6524 (6524.0
cmtx_inv8x8_32x32		cycles/matrix)
cmtx_inv10x10_32x32		11520 (11520.0 cycles/matrix)
mtx_inv2x2_32x32		38 (38.0 cycles/matrix) 431 (431.0
mtx_inv3x3_32x32		cycles/matrix) 668 (668.0
mtx_inv4x4_32x32		cycles/matrix) 1713 (1713.0
mtx_inv6x6_32x32		cycles/matrix) 3266 (3266.0
mtx_inv8x8_32x32		cycles/matrix) 5728 (5728.0
mtx_inv10x10_32x32		cycles/matrix) 314 (314.0
cmtx_gjelim2x2_32x32		cycles/matrix) 521 (521.0
cmtx_gjelim3x3_32x32		cycles/matrix)
cmtx_gjelim4x4_32x32		993 (993.0 cycles/matrix)
cmtx_gjelim6x6_32x32		2147 (2147.0 cycles/matrix)
cmtx_gjelim8x8_32x32		3856 (3856.0 cycles/matrix)
cmtx_gjelim10x10_32x32		6262 (6262.0 cycles/matrix)
mtx_gjelim2x2_32x32		38 (38.0 cycles/matrix) 422 (422.0
mtx_gjelim3x3_32x32		cycles/matrix) 593 (593.0
mtx_gjelim4x4_32x32		cycles/matrix) 1466 (1466.0
mtx_gjelim6x6_32x32		cycles/matrix) 2451 (2451.0
mtx_gjelim8x8_32x32		cycles/matrix)
mtx_gjelim10x10_32x32		3895 (3895.0 cycles/matrix)
mtx_inv2x2f		32 (32.0 cycles/matrix) 171 (171.0
mtx_inv3x3f		cycles/matrix) 276 (276.0
mtx_inv4x4f		cycles/matrix) 864 (864.0
mtx_inv6x6f		cycles/matrix) 1722 (1722.0
mtx_inv8x8f		cycles/matrix) 2958 (2958.0
mtx_inv10x10f		cycles/matrix)
Fitting and Interpolation		
Polynomial Fitting vec poly4 32x32	N=200	401 (2.0 cycles/pts)
vec_poly4_32x32 vec_poly8_32x32	N=200 N=200	648 (3.2 cycles/pts)
vec_poly4f	N=200	408 (2.0 cycles/pts)
vec poly8f	N=200	788 (3.9 cycles/pts)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
FFT Routines	, , , , , , , , , , , , , , , , , , ,	2,111,
Complex FFT		
fft_cplx16x16	N=16, scaling=3	137 (0.117 pts/cycle)
fft_cplx16x16 fft_cplx16x16	N=16, scaling=2 N=32, scaling=3	173 (0.092 pts/cycle) 192 (0.167 pts/cycle)
fft_cplx16x16	N=32, scaling=2	245 (0.131 pts/cycle)
fft_cplx16x16	N=64, scaling=3	432 (0.148 pts/cycle)
fft_cplx16x16	N=64, scaling=2	540 (0.119 pts/cycle)
fft_cplx16x16 fft_cplx16x16	N=128, scaling=3 N=128, scaling=2	849 (0.151 pts/cycle) 1020 (0.125 pts/cycle)
fft cplx16x16	N=256, scaling=3	1780 (0.144 pts/cycle)
fft_cplx16x16	N=256, scaling=2	2156 (0.119 pts/cycle)
fft_cplx16x16	N=512, scaling=3	3888 (0.132 pts/cycle)
fft_cplx16x16 fft_cplx16x16	N=512, scaling=2 N=1024, scaling=3	4547 (0.113 pts/cycle) 8203 (0.125 pts/cycle)
fft cplx16x16	N=1024, scaling=3 N=1024, scaling=2	9735 (0.105 pts/cycle)
fft_cplx16x16	N=2048, scaling=3	18349 (0.112 pts/cycle)
fft_cplx16x16	N=2048, scaling=2	21149 (0.097 pts/cycle)
fft_cplx16x16 fft_cplx16x16	N=4096, scaling=3 N=4096, scaling=2	38731 (0.106 pts/cycle) 45318 (0.090 pts/cycle)
fft cplx32x16	N=16, scaling=3	142 (0.113 pts/cycle)
fft_cplx32x16	N=16, scaling=2	194 (0.082 pts/cycle)
fft_cplx32x16	N=32, scaling=3	211 (0.152 pts/cycle)
fft_cplx32x16	N=32, scaling=2 N=64, scaling=3	265 (0.121 pts/cycle)
fft_cplx32x16 fft_cplx32x16	N=64, scaling=3 N=64, scaling=2	426 (0.150 pts/cycle) 520 (0.123 pts/cycle)
fft cplx32x16	N=128, scaling=3	828 (0.155 pts/cycle)
fft_cplx32x16	N=128, scaling=2	935 (0.137 pts/cycle)
fft_cplx32x16	N=256, scaling=3	1744 (0.147 pts/cycle)
fft_cplx32x16 fft_cplx32x16	N=256, scaling=2 N=512, scaling=3	1941 (0.132 pts/cycle) 3738 (0.137 pts/cycle)
fft cplx32x16	N=512, scaling=5	4031 (0.127 pts/cycle)
fft_cplx32x16	N=1024, scaling=3	8008 (0.128 pts/cycle)
fft_cplx32x16	N=1024, scaling=2	8607 (0.119 pts/cycle)
fft_cplx32x16 fft_cplx32x16	N=2048, scaling=3 N=2048, scaling=2	17509 (0.117 pts/cycle) 18511 (0.111 pts/cycle)
fft cplx32x16	N=4096, scaling=3	37458 (0.109 pts/cycle)
fft_cplx32x16	N=4096, scaling=2	39635 (0.103 pts/cycle)
fft_cplx32x32	N=16, scaling=3	161 (0.099 pts/cycle)
fft_cplx32x32 fft_cplx32x32	N=16, scaling=2 N=32, scaling=3	187 (0.086 pts/cycle) 218 (0.147 pts/cycle)
fft cplx32x32	N=32, scaling=3	342 (0.094 pts/cycle)
fft_cplx32x32	N=64, scaling=3	444 (0.144 pts/cycle)
fft_cplx32x32	N=64, scaling=2	537 (0.119 pts/cycle)
fft_cplx32x32 fft_cplx32x32	N=128, scaling=3 N=128, scaling=2	776 (0.165 pts/cycle) 1087 (0.118 pts/cycle)
fft cplx32x32	N=128, Scaling=2 N=256, scaling=3	1665 (0.154 pts/cycle)
fft_cplx32x32	N=256, scaling=2	1982 (0.129 pts/cycle)
fft_cplx32x32	N=512, scaling=3	3366 (0.152 pts/cycle)
fft_cplx32x32 fft_cplx32x32	N=512, scaling=2 N=1024, scaling=3	4401 (0.116 pts/cycle) 7390 (0.139 pts/cycle)
fft cplx32x32	N=1024, scaling=3 N=1024, scaling=2	8576 (0.119 pts/cycle)
fft_cplx32x32	N=2048, scaling=3	15517 (0.132 pts/cycle)
fft_cplx32x32	N=2048, scaling=2	19426 (0.105 pts/cycle)
fft_cplx32x32	N=4096, scaling=3	34004 (0.120 pts/cycle)
fft_cplx32x32 ifft cplx16x16	N=4096, scaling=2 N=16, scaling=3	38640 (0.106 pts/cycle) 147 (0.109 pts/cycle)
ifft cplx16x16	N=16, scaling=2	195 (0.082 pts/cycle)
ifft_cplx16x16	N=32, scaling=3	203 (0.158 pts/cycle)
ifft_cplx16x16	N=32, scaling=2	267 (0.120 pts/cycle)
ifft_cplx16x16 ifft_cplx16x16	N=64, scaling=3 N=64, scaling=2	446 (0.143 pts/cycle) 561 (0.114 pts/cycle)
ifft cplx16x16	N=128, scaling=3	868 (0.147 pts/cycle)
ifft_cplx16x16	N=128, scaling=2	1041 (0.123 pts/cycle)
ifft_cplx16x16	N=256, scaling=3	1806 (0.142 pts/cycle)
ifft_cplx16x16	N=256, scaling=2	2179 (0.117 pts/cycle)
ifft_cplx16x16 ifft_cplx16x16	N=512, scaling=3 N=512, scaling=2	3931 (0.130 pts/cycle) 4568 (0.112 pts/cycle)
ifft_cplx16x16	N=1024, scaling=3	8279 (0.124 pts/cycle)
ifft_cplx16x16	N=1024, scaling=2	9757 (0.105 pts/cycle)
ifft_cplx16x16	N=2048, scaling=3	18487 (0.111 pts/cycle)
ifft_cplx16x16	N=2048, scaling=2 N=4096, scaling=3	21172 (0.097 pts/cycle) 38998 (0.105 pts/cycle)
ifft cplx16x16		

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
ifft cplx32x16	N=16, scaling=3	147 (0.109 pts/cycle)
ifft_cplx32x16	N=16, scaling=2	206 (0.078 pts/cycle)
ifft_cplx32x16	N=32, scaling=3	212 (0.151 pts/cycle)
ifft_cplx32x16 ifft_cplx32x16	N=32, scaling=2 N=64, scaling=3	287 (0.111 pts/cycle) 428 (0.150 pts/cycle)
ifft cplx32x16	N=64, scaling=2	551 (0.116 pts/cycle)
ifft_cplx32x16	N=128, scaling=3	830 (0.154 pts/cycle)
ifft_cplx32x16	N=128, scaling=2	982 (0.130 pts/cycle)
ifft_cplx32x16 ifft_cplx32x16	N=256, scaling=3 N=256, scaling=2	1745 (0.147 pts/cycle)
ifft cplx32x16	N=512, scaling=3	2020 (0.127 pts/cycle) 3740 (0.137 pts/cycle)
ifft cplx32x16	N=512, scaling=2	4173 (0.123 pts/cycle)
ifft_cplx32x16	N=1024, scaling=3	8010 (0.128 pts/cycle)
ifft_cplx32x16	N=1024, scaling=2	8878 (0.115 pts/cycle)
ifft_cplx32x16 ifft_cplx32x16	N=2048, scaling=3 N=2048, scaling=2	17511 (0.117 pts/cycle) 19038 (0.108 pts/cycle)
ifft cplx32x16	N=4096, scaling=3	37460 (0.100 pts/cycle)
ifft cplx32x16	N=4096, scaling=2	40672 (0.101 pts/cycle)
ifft_cplx32x32	N=16, scaling=3	146 (0.110 pts/cycle)
ifft_cplx32x32	N=16, scaling=2	189 (0.085 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=32, scaling=3 N=32, scaling=2	212 (0.151 pts/cycle) 337 (0.095 pts/cycle)
ifft cplx32x32	N=64, scaling=3	449 (0.143 pts/cycle)
ifft_cplx32x32	N=64, scaling=2	525 (0.122 pts/cycle)
ifft_cplx32x32	N=128, scaling=3	805 (0.159 pts/cycle)
ifft_cplx32x32	N=128, scaling=2	1057 (0.121 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=256, scaling=3 N=256, scaling=2	1742 (0.147 pts/cycle) 1920 (0.133 pts/cycle)
ifft cplx32x32	N=512, scaling=3	3536 (0.145 pts/cycle)
ifft_cplx32x32	N=512, scaling=2	4273 (0.120 pts/cycle)
ifft_cplx32x32	N=1024, scaling=3	7751 (0.132 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=1024, scaling=2 N=2048, scaling=3	8319 (0.123 pts/cycle) 16263 (0.126 pts/cycle)
ifft cplx32x32	N=2048, scaling=2	18913 (0.108 pts/cycle)
ifft cplx32x32	N=4096, scaling=3	35519 (0.115 pts/cycle)
ifft_cplx32x32	N=4096, scaling=2	37614 (0.109 pts/cycle)
Real FFT fft real16x16	N-221i2	262 (0.122 === /===1=)
fft real16x16	N=32, scaling=3 N=32, scaling=2	263 (0.122 pts/cycle) 299 (0.107 pts/cycle)
fft real16x16	N=64, scaling=3	346 (0.185 pts/cycle)
fft_real16x16	N=64, scaling=2	399 (0.160 pts/cycle)
fft_real16x16	N=128, scaling=3	650 (0.197 pts/cycle)
fft_real16x16 fft real16x16	N=128, scaling=2 N=256, scaling=3	758 (0.169 pts/cycle) 1195 (0.214 pts/cycle)
fft real16x16	N=256, scaling=2	1366 (0.187 pts/cycle)
fft_real16x16	N=512, scaling=3	2382 (0.215 pts/cycle)
fft_real16x16	N=512, scaling=2	2758 (0.186 pts/cycle)
fft_real16x16 fft_real16x16	N=1024, scaling=3 N=1024, scaling=2	5002 (0.205 pts/cycle) 5661 (0.181 pts/cycle)
fft real16x16	N=1024, Scaling=2 N=2048, scaling=3	10341 (0.198 pts/cycle)
fft_real16x16	N=2048, scaling=2	11873 (0.172 pts/cycle)
fft_real16x16	N=4096, scaling=3	22534 (0.182 pts/cycle)
fft_real16x16	N=4096, scaling=2	25335 (0.162 pts/cycle) 47014 (0.174 pts/cycle)
fft_real16x16 fft_real16x16	N=8192, scaling=3 N=8192, scaling=2	4/014 (0.1/4 pts/cycle) 53600 (0.153 pts/cycle)
fft_real32x16	N=32, scaling=3	249 (0.129 pts/cycle)
fft_real32x16	N=32, scaling=2	301 (0.106 pts/cycle)
fft_real32x16	N=64, scaling=3	341 (0.188 pts/cycle) 395 (0.162 pts/cycle)
fft_real32x16 fft_real32x16	N=64, scaling=2 N=128, scaling=3	606 (0.211 pts/cycle)
fft real32x16	N=128, scaling=2	697 (0.184 pts/cycle)
fft_real32x16	N=256, scaling=3	1103 (0.232 pts/cycle)
fft_real32x16	N=256, scaling=2	1211 (0.211 pts/cycle)
fft_real32x16 fft_real32x16	N=512, scaling=3 N=512, scaling=2	2209 (0.232 pts/cycle) 2407 (0.213 pts/cycle)
fft real32x16	N=512, Scaling=2 N=1024, scaling=3	4591 (0.223 pts/cycle)
fft_real32x16	N=1024, scaling=2	4879 (0.210 pts/cycle)
fft_real32x16	N=2048, scaling=3	9627 (0.213 pts/cycle)
fft_real32x16	N=2048, scaling=2	10226 (0.200 pts/cycle)
fft_real32x16 fft_real32x16	N=4096, scaling=3 N=4096, scaling=2	20663 (0.198 pts/cycle) 21665 (0.189 pts/cycle)
fft_real32x16	N=8192, scaling=3	43685 (0.188 pts/cycle)
fft_real32x16	N=8192, scaling=2	45859 (0.179 pts/cycle)
fft_real32x32	N=32, scaling=3	245 (0.131 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
fft_real32x32	N=32, scaling=2	285 (0.112 pts/cycle)
fft_real32x32	N=64, scaling=3	326 (0.196 pts/cycle)
fft_real32x32	N=64, scaling=2	468 (0.137 pts/cycle)
fft_real32x32 fft_real32x32	N=128, scaling=3 N=128, scaling=2	607 (0.211 pts/cycle) 727 (0.176 pts/cycle)
fft real32x32	N=256, scaling=3	1051 (0.244 pts/cycle)
fft_real32x32	N=256, scaling=2	1405 (0.182 pts/cycle)
fft_real32x32	N=512, scaling=3	2164 (0.237 pts/cycle)
fft_real32x32	N=512, scaling=2	2556 (0.200 pts/cycle)
fft_real32x32 fft_real32x32	N=1024, scaling=3 N=1024, scaling=2	4313 (0.237 pts/cycle) 5488 (0.187 pts/cycle)
fft real32x32	N=2048, scaling=3	9234 (0.222 pts/cycle)
fft_real32x32	N=2048, scaling=2	10687 (0.192 pts/cycle)
fft_real32x32	N=4096, scaling=3	19153 (0.214 pts/cycle)
fft_real32x32	N=4096, scaling=2	23585 (0.174 pts/cycle)
fft_real32x32 fft_real32x32	N=8192, scaling=3 N=8192, scaling=2	41224 (0.199 pts/cycle) 46895 (0.175 pts/cycle)
ifft real16x16	N=32, scaling=3	281 (0.114 pts/cycle)
ifft real16x16	N=32, scaling=2	340 (0.094 pts/cycle)
ifft_real16x16	N=64, scaling=3	368 (0.174 pts/cycle)
ifft_real16x16	N=64, scaling=2	457 (0.140 pts/cycle)
ifft_real16x16 ifft_real16x16	N=128, scaling=3 N=128, scaling=2	675 (0.190 pts/cycle) 839 (0.153 pts/cycle)
ifft real16x16	N=128, Scaling=2 N=256, scaling=3	1225 (0.209 pts/cycle)
ifft real16x16	N=256, scaling=2	1495 (0.171 pts/cycle)
ifft_real16x16	N=512, scaling=3	2419 (0.212 pts/cycle)
ifft_real16x16	N=512, scaling=2	2985 (0.172 pts/cycle)
ifft_real16x16 ifft_real16x16	N=1024, scaling=3	5056 (0.203 pts/cycle)
ifft real16x16	N=1024, scaling=2 N=2048, scaling=3	6078 (0.168 pts/cycle) 10428 (0.196 pts/cycle)
ifft real16x16	N=2048, scaling=2	12675 (0.162 pts/cycle)
ifft_real16x16	N=4096, scaling=3	22684 (0.181 pts/cycle)
ifft_real16x16	N=4096, scaling=2	26905 (0.152 pts/cycle)
ifft_real16x16 ifft_real16x16	N=8192, scaling=3 N=8192, scaling=2	47291 (0.173 pts/cycle)
ifft real32x16	N=8192, Scaling=2 N=32, scaling=3	56707 (0.144 pts/cycle) 210 (0.152 pts/cycle)
ifft real32x16	N=32, scaling=2	271 (0.118 pts/cycle)
ifft_real32x16	N=64, scaling=3	308 (0.208 pts/cycle)
ifft_real32x16	N=64, scaling=2	388 (0.165 pts/cycle)
ifft_real32x16 ifft_real32x16	N=128, scaling=3 N=128, scaling=2	590 (0.217 pts/cycle) 727 (0.176 pts/cycle)
ifft real32x16	N=256, scaling=3	1120 (0.229 pts/cycle)
ifft real32x16	N=256, scaling=2	1302 (0.197 pts/cycle)
ifft_real32x16	N=512, scaling=3	2292 (0.223 pts/cycle)
ifft_real32x16	N=512, scaling=2	2629 (0.195 pts/cycle)
ifft_real32x16 ifft_real32x16	N=1024, scaling=3 N=1024, scaling=2	4799 (0.213 pts/cycle) 5358 (0.191 pts/cycle)
ifft real32x16	N=2048, scaling=3	10094 (0.203 pts/cycle)
ifft real32x16	N=2048, scaling=2	11216 (0.183 pts/cycle)
ifft_real32x16	N=4096, scaling=3	21642 (0.189 pts/cycle)
ifft_real32x16	N=4096, scaling=2	23680 (0.173 pts/cycle)
ifft_real32x16 ifft_real32x16	N=8192, scaling=3 N=8192, scaling=2	45689 (0.179 pts/cycle) 49924 (0.164 pts/cycle)
ifft real32x32	N=8192, Scaling=2 N=32, scaling=3	233 (0.137 pts/cycle)
ifft real32x32	N=32, scaling=2	286 (0.112 pts/cycle)
ifft_real32x32	N=64, scaling=3	332 (0.193 pts/cycle)
ifft_real32x32	N=64, scaling=2	471 (0.136 pts/cycle)
ifft_real32x32 ifft_real32x32	N=128, scaling=3 N=128, scaling=2	633 (0.202 pts/cycle) 731 (0.175 pts/cycle)
ifft real32x32	N=128, Scaling=2 N=256, scaling=3	1117 (0.229 pts/cycle)
ifft_real32x32	N=256, scaling=2	1409 (0.182 pts/cycle)
ifft_real32x32	N=512, scaling=3	2312 (0.221 pts/cycle)
ifft_real32x32	N=512, scaling=2	2560 (0.200 pts/cycle)
ifft_real32x32 ifft_real32x32	N=1024, scaling=3 N=1024, scaling=2	4618 (0.222 pts/cycle) 5492 (0.186 pts/cycle)
ifft real32x32	N=2048, scaling=3	9860 (0.208 pts/cycle)
ifft_real32x32	N=2048, scaling=2	10690 (0.192 pts/cycle)
ifft_real32x32	N=4096, scaling=3	20420 (0.201 pts/cycle)
ifft_real32x32	N=4096, scaling=2	23590 (0.174 pts/cycle)
ifft_real32x32 ifft_real32x32	N=8192, scaling=3 N=8192, scaling=2	43774 (0.187 pts/cycle) 46899 (0.175 pts/cycle)
Mixed Radix Complex FF		40033 (0.173 pts/cycle)
	N=12, scaling=3	157 (0.076 pts/cycle)
fft cplx32x32	N=12, Scaling=3	137 (0.076 pts/cycle)

Function name		Cycles Measurements	
	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5	
fft_cplx32x32	N=24, scaling=3	225 (0.107 pts/cycle)	
fft_cplx32x32	N=24, scaling=2	402 (0.060 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=36, scaling=3 N=36, scaling=2	438 (0.082 pts/cycle) 548 (0.066 pts/cycle)	
fft cplx32x32	N=48, scaling=3	433 (0.111 pts/cycle)	
fft_cplx32x32	N=48, scaling=2	507 (0.095 pts/cycle)	
fft_cplx32x32	N=60, scaling=3	630 (0.095 pts/cycle)	
fft_cplx32x32 fft cplx32x32	N=60, scaling=2 N=72, scaling=3	762 (0.079 pts/cycle) 856 (0.084 pts/cycle)	
fft cplx32x32	N=72, scaling=2	1184 (0.061 pts/cycle)	
fft_cplx32x32	N=80, scaling=3	628 (0.127 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=80, scaling=2 N=96, scaling=3	753 (0.106 pts/cycle) 1127 (0.085 pts/cycle)	
fft cplx32x32	N=96, scaling=3 N=96, scaling=2	1305 (0.074 pts/cycle)	
fft_cplx32x32	N=100, scaling=3	1063 (0.094 pts/cycle)	
fft_cplx32x32	N=100, scaling=2	1216 (0.082 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=108, scaling=3 N=108, scaling=2	1297 (0.083 pts/cycle)	
fft cplx32x32	N=120, scaling=3	1550 (0.070 pts/cycle) 1502 (0.080 pts/cycle)	
fft_cplx32x32	N=120, scaling=2	1741 (0.069 pts/cycle)	
fft_cplx32x32	N=144, scaling=3	1367 (0.105 pts/cycle)	
fft_cplx32x32	N=144, scaling=2	1682 (0.086 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=160, scaling=3 N=160, scaling=2	1343 (0.119 pts/cycle) 1572 (0.102 pts/cycle)	
fft_cplx32x32	N=180, scaling=3	2064 (0.087 pts/cycle)	
fft_cplx32x32	N=180, scaling=2	2346 (0.077 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=192, scaling=3 N=192, scaling=2	1704 (0.113 pts/cycle)	
fft cplx32x32	N=192, Scaling=2 N=200, scaling=3	1996 (0.096 pts/cycle) 2361 (0.085 pts/cycle)	
fft_cplx32x32	N=200, scaling=2	2739 (0.073 pts/cycle)	
fft_cplx32x32	N=216, scaling=3	2737 (0.079 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=216, scaling=2 N=240, scaling=3	3554 (0.061 pts/cycle) 2336 (0.103 pts/cycle)	
fft cplx32x32	N=240, scaling=3	2720 (0.088 pts/cycle)	
fft_cplx32x32	N=288, scaling=3	3306 (0.087 pts/cycle)	
fft_cplx32x32	N=288, scaling=2	3913 (0.074 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=300, scaling=3 N=300, scaling=2	3330 (0.090 pts/cycle) 3884 (0.077 pts/cycle)	
fft cplx32x32	N=320, scaling=3	3008 (0.106 pts/cycle)	
fft_cplx32x32	N=320, scaling=2	3394 (0.094 pts/cycle)	
fft_cplx32x32	N=324, scaling=3	4302 (0.075 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=324, scaling=2 N=360, scaling=3	4804 (0.067 pts/cycle) 4591 (0.078 pts/cycle)	
fft cplx32x32	N=360, scaling=2	4931 (0.073 pts/cycle)	
fft_cplx32x32	N=384, scaling=3	3088 (0.124 pts/cycle)	
fft_cplx32x32	N=384, scaling=2	3603 (0.107 pts/cycle) 3905 (0.102 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=400, scaling=3 N=400, scaling=2	4623 (0.087 pts/cycle)	
fft cplx32x32	N=432, scaling=3	4773 (0.091 pts/cycle)	
fft_cplx32x32	N=432, scaling=2	5652 (0.076 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=480, scaling=3 N=480, scaling=2	5375 (0.089 pts/cycle) 6235 (0.077 pts/cycle)	
fft cplx32x32	N=480, scaling=2 N=540, scaling=3	7158 (0.077 pts/cycle)	
fft_cplx32x32	N=540, scaling=2	7697 (0.070 pts/cycle)	
fft_cplx32x32	N=576, scaling=3	5455 (0.106 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=576, scaling=2 N=600, scaling=3	6547 (0.088 pts/cycle) 6592 (0.091 pts/cycle)	
fft cplx32x32	N=600, scaling=2	7695 (0.078 pts/cycle)	
fft_cplx32x32	N=768, scaling=3	6314 (0.122 pts/cycle)	
fft_cplx32x32	N=768, scaling=2	7196 (0.107 pts/cycle)	
fft_cplx32x32 fft_cplx32x32	N=960, scaling=3 N=960, scaling=2	9195 (0.104 pts/cycle) 10788 (0.089 pts/cycle)	
ifft cplx32x32	N=12, scaling=3	170 (0.071 pts/cycle)	
ifft_cplx32x32	N=12, scaling=2	187 (0.064 pts/cycle)	
ifft_cplx32x32	N=24, scaling=3	230 (0.104 pts/cycle)	
ifft_cplx32x32 ifft cplx32x32	N=24, scaling=2 N=36, scaling=3	403 (0.060 pts/cycle) 427 (0.084 pts/cycle)	
ifft_cplx32x32	N=36, scaling=2	542 (0.066 pts/cycle)	
ifft_cplx32x32	N=48, scaling=3	432 (0.111 pts/cycle)	
ifft_cplx32x32	N=48, scaling=2	497 (0.097 pts/cycle)	
ifft_cplx32x32 ifft_cplx32x32	N=60, scaling=3 N=60, scaling=2	610 (0.098 pts/cycle) 755 (0.079 pts/cycle)	
ifft cplx32x32	N=72, scaling=3	863 (0.083 pts/cycle)	
ifft_cplx32x32	N=72, scaling=2	1167 (0.062 pts/cycle)	

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
ifft_cplx32x32	N=80, scaling=3	640 (0.125 pts/cycle)
ifft_cplx32x32	N=80, scaling=2	736 (0.109 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=96, scaling=3	1142 (0.084 pts/cycle) 1284 (0.075 pts/cycle)
ifft cplx32x32	N=96, scaling=2 N=100, scaling=3	1030 (0.097 pts/cycle)
ifft cplx32x32	N=100, scaling=2	1203 (0.083 pts/cycle)
ifft_cplx32x32	N=108, scaling=3	1260 (0.086 pts/cycle)
ifft_cplx32x32	N=108, scaling=2	1535 (0.070 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=120, scaling=3 N=120, scaling=2	1526 (0.079 pts/cycle)
ifft cplx32x32	N=120, Scaling=2 N=144, scaling=3	1714 (0.070 pts/cycle) 1401 (0.103 pts/cycle)
ifft cplx32x32	N=144, scaling=2	1647 (0.087 pts/cycle)
ifft_cplx32x32	N=160, scaling=3	1385 (0.116 pts/cycle)
ifft_cplx32x32	N=160, scaling=2	1535 (0.104 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=180, scaling=3 N=180, scaling=2	1998 (0.090 pts/cycle) 2323 (0.077 pts/cycle)
ifft cplx32x32	N=192, scaling=3	1736 (0.111 pts/cycle)
ifft cplx32x32	N=192, scaling=2	1995 (0.096 pts/cycle)
ifft_cplx32x32	N=200, scaling=3	2418 (0.083 pts/cycle)
ifft_cplx32x32	N=200, scaling=2	2692 (0.074 pts/cycle)
ifft_cplx32x32	N=216, scaling=3	2796 (0.077 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=216, scaling=2 N=240, scaling=3	3502 (0.062 pts/cycle) 2376 (0.101 pts/cycle)
ifft cplx32x32	N=240, scaling=3 N=240, scaling=2	2719 (0.088 pts/cycle)
ifft_cplx32x32	N=288, scaling=3	3394 (0.085 pts/cycle)
ifft_cplx32x32	N=288, scaling=2	3842 (0.075 pts/cycle)
ifft_cplx32x32	N=300, scaling=3	3380 (0.089 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=300, scaling=2 N=320, scaling=3	3884 (0.077 pts/cycle) 3007 (0.106 pts/cycle)
ifft cplx32x32	N=320, scaling=2	3369 (0.095 pts/cycle)
ifft_cplx32x32	N=324, scaling=3	4183 (0.077 pts/cycle)
ifft_cplx32x32	N=324, scaling=2	4761 (0.068 pts/cycle)
ifft_cplx32x32	N=360, scaling=3	4422 (0.081 pts/cycle) 4937 (0.073 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=360, scaling=2 N=384, scaling=3	3214 (0.119 pts/cycle)
ifft cplx32x32	N=384, scaling=2	3509 (0.109 pts/cycle)
ifft_cplx32x32	N=400, scaling=3	4037 (0.099 pts/cycle)
ifft_cplx32x32	N=400, scaling=2	4526 (0.088 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=432, scaling=3 N=432, scaling=2	4913 (0.088 pts/cycle) 5545 (0.078 pts/cycle)
ifft cplx32x32	N=480, scaling=3	5534 (0.087 pts/cycle)
ifft cplx32x32	N=480, scaling=2	6115 (0.078 pts/cycle)
ifft_cplx32x32	N=540, scaling=3	6957 (0.078 pts/cycle)
ifft_cplx32x32	N=540, scaling=2	7627 (0.071 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=576, scaling=3 N=576, scaling=2	5649 (0.102 pts/cycle) 6404 (0.090 pts/cycle)
ifft cplx32x32	N=600, scaling=3	6693 (0.090 pts/cycle)
ifft cplx32x32	N=600, scaling=2	7695 (0.078 pts/cycle)
ifft_cplx32x32	N=768, scaling=3	6581 (0.117 pts/cycle)
ifft_cplx32x32	N=768, scaling=2	7005 (0.110 pts/cycle)
ifft_cplx32x32 ifft_cplx32x32	N=960, scaling=3 N=960, scaling=2	9534 (0.101 pts/cycle) 10549 (0.091 pts/cycle)
fft cplx32x16	N=160, scaling=3	1229 (0.130 pts/cycle)
fft_cplx32x16	N=160, scaling=2	1379 (0.116 pts/cycle)
fft_cplx32x16	N=192, scaling=3	1510 (0.127 pts/cycle)
fft_cplx32x16	N=192, scaling=2	1711 (0.112 pts/cycle) 2159 (0.111 pts/cycle)
fft_cplx32x16 fft_cplx32x16	N=240, scaling=3 N=240, scaling=2	2342 (0.102 pts/cycle)
fft cplx32x16	N=320, scaling=3	2478 (0.102 pts/cycle)
fft_cplx32x16	N=320, scaling=2	2778 (0.115 pts/cycle)
fft_cplx32x16	N=384, scaling=3	3353 (0.115 pts/cycle)
fft_cplx32x16 fft cplx32x16	N=384, scaling=2 N=480, scaling=3	3692 (0.104 pts/cycle) 4639 (0.103 pts/cycle)
fft cplx32x16	N=480, scaling=3 N=480, scaling=2	4930 (0.103 pts/cycle) 4930 (0.097 pts/cycle)
ifft_cplx32x16	N=160, scaling=3	1275 (0.125 pts/cycle)
ifft_cplx32x16	N=160, scaling=2	1385 (0.116 pts/cycle)
ifft_cplx32x16	N=192, scaling=3	1401 (0.137 pts/cycle)
ifft_cplx32x16 ifft cplx32x16	N=192, scaling=2 N=240, scaling=3	1720 (0.112 pts/cycle) 2018 (0.119 pts/cycle)
ifft cplx32x16	N=240, scaling=3 N=240, scaling=2	2018 (0.119 pts/cycle) 2351 (0.102 pts/cycle)
ifft_cplx32x16	N=320, scaling=3	2553 (0.125 pts/cycle)
ifft_cplx32x16	N=320, scaling=2	2783 (0.115 pts/cycle)
ifft_cplx32x16	N=384, scaling=3	3111 (0.123 pts/cycle)
ifft_cplx32x16	N=384, scaling=2	3698 (0.104 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
ifft cplx32x16	N=480, scaling=3	4335 (0.111 pts/cycle)
ifft_cplx32x16	N=480, scaling=2	4936 (0.097 pts/cycle)
fft_cplx16x16	N=160, scaling=3	1296 (0.123 pts/cycle)
fft_cplx16x16	N=160, scaling=2	1655 (0.097 pts/cycle)
fft_cplx16x16 fft_cplx16x16	N=192, scaling=3 N=192, scaling=2	1627 (0.118 pts/cycle) 2037 (0.094 pts/cycle)
fft cplx16x16	N=240, scaling=3	2058 (0.117 pts/cycle)
fft cplx16x16	N=240, scaling=2	2501 (0.096 pts/cycle)
fft_cplx16x16	N=320, scaling=3	2624 (0.122 pts/cycle)
fft_cplx16x16	N=320, scaling=2	3265 (0.098 pts/cycle)
fft_cplx16x16	N=384, scaling=3	3246 (0.118 pts/cycle)
fft_cplx16x16 fft_cplx16x16	N=384, scaling=2 N=480, scaling=3	4110 (0.093 pts/cycle) 4087 (0.117 pts/cycle)
fft cplx16x16	N=480, scaling=2	5155 (0.093 pts/cycle)
ifft cplx16x16	N=160, scaling=3	1341 (0.119 pts/cycle)
ifft_cplx16x16	N=160, scaling=2	1690 (0.095 pts/cycle)
ifft_cplx16x16	N=192, scaling=3	1628 (0.118 pts/cycle)
ifft_cplx16x16	N=192, scaling=2	2027 (0.095 pts/cycle)
ifft_cplx16x16 ifft_cplx16x16	N=240, scaling=3	2111 (0.114 pts/cycle) 2536 (0.095 pts/cycle)
ifft_cplx16x16	N=240, scaling=2 N=320, scaling=3	2683 (0.119 pts/cycle)
ifft cplx16x16	N=320, scaling=3 N=320, scaling=2	3298 (0.097 pts/cycle)
ifft cplx16x16	N=384, scaling=3	3245 (0.118 pts/cycle)
ifft_cplx16x16	N=384, scaling=2	4080 (0.094 pts/cycle)
ifft_cplx16x16	N=480, scaling=3	4162 (0.115 pts/cycle)
ifft_cplx16x16	N=480, scaling=2	5185 (0.093 pts/cycle)
Mixed Radix Real FFT fft real32x32	N=12, scaling=3	104 (0.065
fft real32x32	N=12, scaling=3	184 (0.065 pts/cycle) 211 (0.057 pts/cycle)
fft real32x32	N=24, scaling=3	230 (0.104 pts/cycle)
fft real32x32	N=24, scaling=2	272 (0.088 pts/cycle)
fft_real32x32	N=30, scaling=3	278 (0.108 pts/cycle)
fft_real32x32	N=30, scaling=2	329 (0.091 pts/cycle)
fft_real32x32 fft_real32x32	N=36, scaling=3 N=36, scaling=2	432 (0.083 pts/cycle) 504 (0.071 pts/cycle)
fft real32x32	N=48, scaling=3	319 (0.150 pts/cycle)
fft real32x32	N=48, scaling=2	512 (0.094 pts/cycle)
fft real32x32	N=60, scaling=3	487 (0.123 pts/cycle)
fft_real32x32	N=60, scaling=2	618 (0.097 pts/cycle)
fft_real32x32	N=72, scaling=3	552 (0.130 pts/cycle)
fft_real32x32	N=72, scaling=2	682 (0.106 pts/cycle)
fft_real32x32 fft_real32x32	N=90, scaling=3 N=90, scaling=2	649 (0.139 pts/cycle) 800 (0.112 pts/cycle)
fft real32x32	N=96, scaling=3	568 (0.169 pts/cycle)
fft real32x32	N=96, scaling=2	665 (0.144 pts/cycle)
fft_real32x32	N=108, scaling=3	889 (0.121 pts/cycle)
fft_real32x32	N=108, scaling=2	1112 (0.097 pts/cycle)
fft_real32x32	N=120, scaling=3	786 (0.153 pts/cycle)
fft_real32x32	N=120, scaling=2	945 (0.127 pts/cycle)
fft_real32x32 fft_real32x32	N=144, scaling=3 N=144, scaling=2	1034 (0.139 pts/cycle) 1390 (0.104 pts/cycle)
fft real32x32	N=144, scaling=2 N=160, scaling=3	820 (0.195 pts/cycle)
fft_real32x32	N=160, scaling=2	976 (0.164 pts/cycle)
fft_real32x32	N=180, scaling=3	1328 (0.136 pts/cycle)
fft_real32x32	N=180, scaling=2	1578 (0.114 pts/cycle)
fft_real32x32	N=192, scaling=3	1346 (0.143 pts/cycle)
fft_real32x32 fft_real32x32	N=192, scaling=2 N=216, scaling=3	1560 (0.123 pts/cycle) 1538 (0.140 pts/cycle)
fft real32x32	N=216, scaling=3 N=216, scaling=2	1829 (0.118 pts/cycle)
fft real32x32	N=240, scaling=3	1763 (0.136 pts/cycle)
fft_real32x32	N=240, scaling=2	2044 (0.117 pts/cycle)
fft_real32x32	N=288, scaling=3	1671 (0.172 pts/cycle)
fft_real32x32	N=288, scaling=2	2032 (0.142 pts/cycle)
fft_real32x32 fft_real32x32	N=300, scaling=3 N=300, scaling=2	2202 (0.136 pts/cycle)
fft real32x32	N=300, scaling=2 N=320, scaling=3	2508 (0.120 pts/cycle) 1675 (0.191 pts/cycle)
fft real32x32	N=320, scaling=2	1955 (0.164 pts/cycle)
fft_real32x32	N=324, scaling=3	2586 (0.125 pts/cycle)
fft_real32x32	N=324, scaling=2	2995 (0.108 pts/cycle)
fft_real32x32	N=360, scaling=3	2430 (0.148 pts/cycle)
fft_real32x32	N=360, scaling=2	2769 (0.130 pts/cycle)
fft_real32x32	N=384, scaling=3	2092 (0.184 pts/cycle)
fft_real32x32 fft_real32x32	N=384, scaling=2 N=432, scaling=3	2442 (0.157 pts/cycle) 3167 (0.136 pts/cycle)
110_160137X37	N-432, SCALING=3	STO! (0.130 bts/cActe)

		Cycles Measurements	
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5	
fft_real32x32	N=432, scaling=2	4050 (0.107 pts/cycle)	
fft_real32x32	N=480, scaling=3	2808 (0.171 pts/cycle)	
fft_real32x32	N=480, scaling=2	3262 (0.147 pts/cycle)	
fft_real32x32 fft_real32x32	N=540, scaling=3 N=540, scaling=2	4173 (0.129 pts/cycle) 4646 (0.116 pts/cycle)	
fft real32x32	N=576, scaling=3	3863 (0.149 pts/cycle)	
fft real32x32	N=576, scaling=2	4553 (0.127 pts/cycle)	
fft_real32x32	N=720, scaling=3	5273 (0.137 pts/cycle)	
fft_real32x32	N=720, scaling=2	5715 (0.126 pts/cycle)	
fft_real32x32	N=768, scaling=3	5044 (0.152 pts/cycle)	
fft_real32x32 fft_real32x32	N=768, scaling=2 N=960, scaling=3	5779 (0.133 pts/cycle) 6268 (0.153 pts/cycle)	
fft real32x32	N=960, scaling=2	7258 (0.132 pts/cycle)	
fft real32x32	N=1152, scaling=3	6515 (0.177 pts/cycle)	
fft_real32x32	N=1152, scaling=2	7763 (0.148 pts/cycle)	
fft_real32x32	N=1440, scaling=3	9316 (0.155 pts/cycle)	
fft_real32x32 fft_real32x32	N=1440, scaling=2 N=1536, scaling=3	10660 (0.135 pts/cycle) 7711 (0.199 pts/cycle)	
fft real32x32	N=1536, Scaling=3 N=1536, scaling=2	8796 (0.175 pts/cycle)	
fft real32x32	N=1920, scaling=3	10928 (0.176 pts/cycle)	
fft_real32x32	N=1920, scaling=2	12771 (0.150 pts/cycle)	
ifft_real32x32	N=12, scaling=3	197 (0.061 pts/cycle)	
ifft_real32x32	N=12, scaling=2	232 (0.052 pts/cycle)	
ifft_real32x32	N=24, scaling=3	248 (0.097 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=24, scaling=2 N=30, scaling=3	276 (0.087 pts/cycle) 289 (0.104 pts/cycle)	
ifft real32x32	N=30, scaling=2	336 (0.089 pts/cycle)	
ifft real32x32	N=36, scaling=3	451 (0.080 pts/cycle)	
ifft_real32x32	N=36, scaling=2	516 (0.070 pts/cycle)	
ifft_real32x32	N=48, scaling=3	334 (0.144 pts/cycle)	
ifft_real32x32	N=48, scaling=2	519 (0.092 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=60, scaling=3 N=60, scaling=2	509 (0.118 pts/cycle) 631 (0.095 pts/cycle)	
ifft real32x32	N=72, scaling=3	556 (0.129 pts/cycle)	
ifft real32x32	N=72, scaling=2	686 (0.105 pts/cycle)	
ifft_real32x32	N=90, scaling=3	672 (0.134 pts/cycle)	
ifft_real32x32	N=90, scaling=2	813 (0.111 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=96, scaling=3 N=96, scaling=2	584 (0.164 pts/cycle) 668 (0.144 pts/cycle)	
ifft real32x32	N=108, scaling=3	918 (0.118 pts/cycle)	
ifft real32x32	N=108, scaling=2	1132 (0.095 pts/cycle)	
ifft_real32x32	N=120, scaling=3	787 (0.152 pts/cycle)	
ifft_real32x32	N=120, scaling=2	952 (0.126 pts/cycle)	
ifft_real32x32	N=144, scaling=3	1066 (0.135 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=144, scaling=2 N=160, scaling=3	1394 (0.103 pts/cycle) 856 (0.187 pts/cycle)	
ifft real32x32	N=160, scaling=2	979 (0.163 pts/cycle)	
ifft real32x32	N=180, scaling=3	1366 (0.132 pts/cycle)	
ifft_real32x32	N=180, scaling=2	1607 (0.112 pts/cycle)	
ifft_real32x32	N=192, scaling=3	1393 (0.138 pts/cycle)	
ifft_real32x32	N=192, scaling=2	1564 (0.123 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=216, scaling=3 N=216, scaling=2	1534 (0.141 pts/cycle) 1843 (0.117 pts/cycle)	
ifft real32x32	N=240, scaling=3	1825 (0.132 pts/cycle)	
ifft real32x32	N=240, scaling=2	2048 (0.117 pts/cycle)	
ifft_real32x32	N=288, scaling=3	1748 (0.165 pts/cycle)	
ifft_real32x32	N=288, scaling=2	2036 (0.141 pts/cycle)	
ifft_real32x32	N=300, scaling=3	2255 (0.133 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=300, scaling=2 N=320, scaling=3	2552 (0.118 pts/cycle) 1761 (0.182 pts/cycle)	
ifft real32x32	N=320, scaling=3 N=320, scaling=2	1958 (0.163 pts/cycle)	
ifft real32x32	N=324, scaling=3	2643 (0.123 pts/cycle)	
ifft_real32x32	N=324, scaling=2	3043 (0.106 pts/cycle)	
ifft_real32x32	N=360, scaling=3	2417 (0.149 pts/cycle)	
ifft_real32x32	N=360, scaling=2	2792 (0.129 pts/cycle)	
ifft_real32x32	N=384, scaling=3	2179 (0.176 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=384, scaling=2 N=432, scaling=3	2492 (0.154 pts/cycle) 3290 (0.131 pts/cycle)	
ifft real32x32	N=432, scaling=2	4055 (0.107 pts/cycle)	
ifft_real32x32	N=480, scaling=3	2915 (0.165 pts/cycle)	
ifft real32x32	N=480, scaling=2	3324 (0.144 pts/cycle)	
ifft_real32x32 ifft_real32x32	N=540, scaling=3 N=540, scaling=2	4257 (0.127 pts/cycle) 4721 (0.114 pts/cycle)	

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
ifft_real32x32	N=576, scaling=2	4558 (0.126 pts/cycle)
ifft_real32x32	N=720, scaling=3	5203 (0.138 pts/cycle)
ifft_real32x32 ifft_real32x32	N=720, scaling=2	5815 (0.124 pts/cycle)
ifft real32x32	N=768, scaling=3 N=768, scaling=2	5274 (0.146 pts/cycle) 5786 (0.133 pts/cycle)
ifft real32x32	N=960, scaling=3	6557 (0.146 pts/cycle)
ifft_real32x32	N=960, scaling=2	7263 (0.132 pts/cycle)
ifft_real32x32	N=1152, scaling=3	6863 (0.168 pts/cycle)
ifft_real32x32 ifft_real32x32	N=1152, scaling=2 N=1440, scaling=3	7768 (0.148 pts/cycle) 9756 (0.148 pts/cycle)
ifft real32x32	N=1440, Scaling=3 N=1440, scaling=2	10667 (0.135 pts/cycle)
ifft real32x32	N=1536, scaling=3	8179 (0.188 pts/cycle)
ifft_real32x32	N=1536, scaling=2	8802 (0.175 pts/cycle)
ifft_real32x32	N=1920, scaling=3	11516 (0.167 pts/cycle)
ifft_real32x32	N=1920, scaling=2	12776 (0.150 pts/cycle)
fft_real32x16 fft_real32x16	N=160, scaling=3 N=160, scaling=2	798 (0.201 pts/cycle) 915 (0.175 pts/cycle)
fft real32x16	N=192, scaling=3	1008 (0.190 pts/cycle)
fft real32x16	N=192, scaling=2	1108 (0.173 pts/cycle)
fft_real32x16	N=240, scaling=3	1441 (0.167 pts/cycle)
fft_real32x16	N=240, scaling=2	1533 (0.157 pts/cycle)
fft_real32x16 fft_real32x16	N=320, scaling=3	1554 (0.206 pts/cycle)
fft_real32x16 fft_real32x16	N=320, scaling=2 N=384, scaling=3	1701 (0.188 pts/cycle) 1885 (0.204 pts/cycle)
fft real32x16	N=384, scaling=2	2081 (0.185 pts/cycle)
fft_real32x16	N=480, scaling=3	2606 (0.184 pts/cycle)
fft_real32x16	N=480, scaling=2	2786 (0.172 pts/cycle)
ifft_real32x16	N=160, scaling=3	815 (0.196 pts/cycle)
ifft_real32x16 ifft_real32x16	N=160, scaling=2	930 (0.172 pts/cycle)
ifft real32x16	N=192, scaling=3 N=192, scaling=2	961 (0.200 pts/cycle) 1136 (0.169 pts/cycle)
ifft real32x16	N=240, scaling=3	1388 (0.173 pts/cycle)
ifft_real32x16	N=240, scaling=2	1581 (0.152 pts/cycle)
ifft_real32x16	N=320, scaling=3	1629 (0.196 pts/cycle)
ifft_real32x16	N=320, scaling=2	1779 (0.180 pts/cycle)
ifft_real32x16 ifft_real32x16	N=384, scaling=3 N=384, scaling=2	1820 (0.211 pts/cycle) 2185 (0.176 pts/cycle)
ifft real32x16	N=480, scaling=3	2533 (0.189 pts/cycle)
ifft real32x16	N=480, scaling=2	2922 (0.164 pts/cycle)
fft_real16x16	N=160, scaling=3	928 (0.172 pts/cycle)
fft_real16x16	N=160, scaling=2	1099 (0.146 pts/cycle)
fft_real16x16 fft_real16x16	N=192, scaling=3	1148 (0.167 pts/cycle) 1388 (0.138 pts/cycle)
fft real16x16	N=192, scaling=2 N=240, scaling=3	1588 (0.138 pts/cycle) 1529 (0.157 pts/cycle)
fft real16x16	N=240, scaling=2	1781 (0.135 pts/cycle)
fft real16x16	N=320, scaling=3	1709 (0.187 pts/cycle)
fft_real16x16	N=320, scaling=2	2065 (0.155 pts/cycle)
fft_real16x16	N=384, scaling=3	2103 (0.183 pts/cycle)
fft_real16x16 fft_real16x16	N=384, scaling=2	2511 (0.153 pts/cycle)
fft real16x16	N=480, scaling=3 N=480, scaling=2	2631 (0.182 pts/cycle) 3069 (0.156 pts/cycle)
ifft_real16x16	N=160, scaling=3	971 (0.165 pts/cycle)
ifft_real16x16	N=160, scaling=2	1203 (0.133 pts/cycle)
ifft_real16x16	N=192, scaling=3	1157 (0.166 pts/cycle)
ifft_real16x16	N=192, scaling=2	1466 (0.131 pts/cycle) 1576 (0.152 pts/cycle)
ifft_real16x16 ifft_real16x16	N=240, scaling=3 N=240, scaling=2	1915 (0.132 pts/cycle)
ifft real16x16	N=320, scaling=3	1762 (0.182 pts/cycle)
ifft_real16x16	N=320, scaling=2	2233 (0.143 pts/cycle)
ifft_real16x16	N=384, scaling=3	2114 (0.182 pts/cycle)
ifft_real16x16	N=384, scaling=2	2655 (0.145 pts/cycle)
ifft_real16x16 ifft real16x16	N=480, scaling=3 N=480, scaling=2	2692 (0.178 pts/cycle) 3296 (0.146 pts/cycle)
Complex FFT with	n 100, Scaring-2	5250 (0.140 pcs/cycie)
Optimized Memory		
fft_cplx16x16_ie	N=128	1284 (0.100 pts/cycle)
fft_cplx16x16_ie	N=256	2370 (0.108 pts/cycle)
fft_cplx16x16_ie fft cplx16x16 ie	N=512	5115 (0.100 pts/cycle)
fft cplx16x16_1e	N=1024 N=256, scaling=3	10213 (0.100 pts/cycle) 2115 (0.121 pts/cycle)
fft cplx32x16 ie	N=256, scaling=2	2286 (0.112 pts/cycle)
fft_cplx32x16_ie	N=512, scaling=3	5059 (0.101 pts/cycle)
fft_cplx32x16_ie	N=512, scaling=2	5370 (0.095 pts/cycle)
fft_cplx32x16_ie	N=1024, scaling=3	10005 (0.102 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
fft_cplx32x16_ie	N=1024, scaling=2	10596 (0.097 pts/cycle)
fft_cplx32x32_ie	N=128, scaling=3	984 (0.130 pts/cycle)
fft_cplx32x32_ie	N=128, scaling=2	1195 (0.107 pts/cycle)
fft_cplx32x32_ie fft cplx32x32_ie	N=256, scaling=3 N=256, scaling=2	1660 (0.154 pts/cycle) 2049 (0.125 pts/cycle)
fft cplx32x32 ie	N=512, scaling=3	4144 (0.124 pts/cycle)
fft cplx32x32 ie	N=512, scaling=2	4878 (0.105 pts/cycle)
fft_cplx32x32_ie	N=1024, scaling=3	7440 (0.138 pts/cycle)
fft_cplx32x32_ie	N=1024, scaling=2	8880 (0.115 pts/cycle)
ifft_cplx16x16_ie ifft_cplx16x16_ie	N=128 N=256	1282 (0.100 pts/cycle) 2366 (0.108 pts/cycle)
ifft cplx16x16 ie	N=512	5113 (0.100 pts/cycle)
ifft cplx16x16 ie	N=1024	10209 (0.100 pts/cycle)
ifft_cplx32x16_ie	N=256, scaling=3	2187 (0.117 pts/cycle)
ifft_cplx32x16_ie	N=256, scaling=2	2541 (0.101 pts/cycle)
ifft_cplx32x16_ie	N=512, scaling=3	5119 (0.100 pts/cycle)
ifft_cplx32x16_ie ifft_cplx32x16_ie	N=512, scaling=2 N=1024, scaling=3	5818 (0.088 pts/cycle) 10269 (0.100 pts/cycle)
ifft cplx32x16 ie	N=1024, scaling=3 N=1024, scaling=2	11653 (0.088 pts/cycle)
ifft cplx32x32 ie	N=128, scaling=3	1014 (0.126 pts/cycle)
ifft_cplx32x32_ie	N=128, scaling=2	1167 (0.110 pts/cycle)
ifft_cplx32x32_ie	N=256, scaling=3	1738 (0.147 pts/cycle)
ifft_cplx32x32_ie	N=256, scaling=2	1989 (0.129 pts/cycle)
ifft_cplx32x32_ie ifft_cplx32x32_ie	N=512, scaling=3 N=512, scaling=2	4320 (0.119 pts/cycle) 4754 (0.108 pts/cycle)
ifft cplx32x32_ie	N=1024, scaling=2 N=1024, scaling=3	7808 (0.131 pts/cycle)
ifft cplx32x32 ie	N=1024, scaling=2	8630 (0.119 pts/cycle)
stereo fft cplx16x16 ie	N=128	1767 (0.072 pts/cycle)
stereo_fft_cplx16x16_ie	N=256	3613 (0.071 pts/cycle)
stereo_fft_cplx16x16_ie	N=512	8319 (0.062 pts/cycle)
stereo_fft_cplx16x16_ie	N=1024	17271 (0.059 pts/cycle)
stereo_fft_cplx32x16_ie stereo_fft_cplx32x16_ie	N=256, scaling=3 N=256, scaling=2	3808 (0.067 pts/cycle) 4106 (0.062 pts/cycle)
stereo fft cplx32x16 ie	N=512, scaling=3	8947 (0.057 pts/cycle)
stereo fft cplx32x16 ie	N=512, scaling=2	9152 (0.056 pts/cycle)
stereo_fft_cplx32x16_ie	N=1024, scaling=3	18518 (0.055 pts/cycle)
stereo_fft_cplx32x16_ie	N=1024, scaling=2	18916 (0.054 pts/cycle)
stereo fft cplx32x32_ie stereo fft cplx32x32_ie	N=128, scaling=3 N=128, scaling=2	1955 (0.065 pts/cycle) 2233 (0.057 pts/cycle)
stereo_fft_cplx32x32_ie	N=128, Scaling=2 N=256, scaling=3	3954 (0.065 pts/cycle)
stereo fft cplx32x32 ie	N=256, scaling=2	4477 (0.057 pts/cycle)
stereo_fft_cplx32x32_ie	N=512, scaling=3	9418 (0.054 pts/cycle)
stereo_fft_cplx32x32_ie	N=512, scaling=2	10481 (0.049 pts/cycle)
stereo_fft_cplx32x32_ie	N=1024, scaling=3	19273 (0.053 pts/cycle)
stereo_fft_cplx32x32_ie stereo ifft cplx16x16 ie	N=1024, scaling=2 N=128	21303 (0.048 pts/cycle) 1790 (0.072 pts/cycle)
stereo ifft cplx16x16 ie	N=128 N=256	3662 (0.070 pts/cycle)
stereo ifft cplx16x16 ie	N=512	8422 (0.061 pts/cycle)
stereo_ifft_cplx16x16_ie	N=1024	17480 (0.059 pts/cycle)
stereo_ifft_cplx32x16_ie	N=256, scaling=3	3633 (0.070 pts/cycle)
stereo_ifft_cplx32x16_ie	N=256, scaling=2	3931 (0.065 pts/cycle)
stereo_ifft_cplx32x16_ie stereo_ifft_cplx32x16_ie	N=512, scaling=3	9077 (0.056 pts/cycle) 9282 (0.055 pts/cycle)
stereo_ifft_cplx32x16_ie	N=512, scaling=2 N=1024, scaling=3	17767 (0.058 pts/cycle)
stereo ifft cplx32x16 ie	N=1024, scaling=2	18165 (0.056 pts/cycle)
stereo_ifft_cplx32x32_ie	N=128, scaling=3	2014 (0.064 pts/cycle)
stereo_ifft_cplx32x32_ie	N=128, scaling=2	2354 (0.054 pts/cycle)
stereo_ifft_cplx32x32_ie	N=256, scaling=3	4077 (0.063 pts/cycle)
stereo ifft cplx32x32 ie stereo ifft cplx32x32 ie	N=256, scaling=2 N=512, scaling=3	4710 (0.054 pts/cycle) 9669 (0.053 pts/cycle)
stereo ifft cplx32x32 ie	N=512, scaling=3 N=512, scaling=2	10938 (0.047 pts/cycle)
stereo ifft cplx32x32 ie	N=1024, scaling=3	19780 (0.052 pts/cycle)
stereo_ifft_cplx32x32_ie	N=1024, scaling=2	22208 (0.046 pts/cycle)
fft_cplxf_ie	N=8	56 (0.143 pts/cycle)
fft_cplxf_ie	N=16	118 (0.136 pts/cycle)
fft_cplxf_ie fft cplxf ie	N=32 N=64	217 (0.147 pts/cycle) 591 (0.108 pts/cycle)
	N=64 N=128	1092 (0.117 pts/cycle)
fft cplxf ie		2837 (0.090 pts/cycle)
fft_cplxf_ie fft cplxf ie	N=256	2037 (0.090 pcs/cycie)
fft_cplxf_ie fft_cplxf_ie fft_cplxf_ie	N=512	5483 (0.093 pts/cycle)
fft cplxf ie fft cplxf ie fft cplxf ie	N=512 N=1024	5483 (0.093 pts/cycle) 13628 (0.075 pts/cycle)
fft_cplxf_ie fft_cplxf_ie	N=512	5483 (0.093 pts/cycle)

Function name ifft_cplxf_ie ifft_cplxf_ie ifft_cplxf_ie ifft_cplxf_ie	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
ifft_cplxf_ie ifft_cplxf_ie	N=16	
ifft_cplxf_ie		132 (0.121 pts/cycle)
	N=32	219 (0.146 pts/cycle)
ifft colxf ie	N=64	594 (0.108 pts/cycle)
	N=128	1079 (0.119 pts/cycle)
ifft_cplxf_ie ifft_cplxf_ie	N=256 N=512	2850 (0.090 pts/cycle) 5407 (0.095 pts/cycle)
ifft cplxf ie	N=1024	13674 (0.075 pts/cycle)
ifft cplxf ie	N=2048	26344 (0.078 pts/cycle)
ifft_cplxf_ie	N=4096	64242 (0.064 pts/cycle)
stereo_fft_cplxf_ie	N=8	126 (0.063 pts/cycle)
stereo_fft_cplxf_ie stereo_fft_cplxf_ie	N=16 N=32	189 (0.085 pts/cycle) 585 (0.055 pts/cycle)
stereo_fft_cplxf_ie stereo_fft_cplxf_ie	N=32 N=64	969 (0.066 pts/cycle)
stereo fft cplxf ie	N=128	2869 (0.045 pts/cycle)
stereo_fft_cplxf_ie	N=256	4977 (0.051 pts/cycle)
stereo_fft_cplxf_ie	N=512	13805 (0.037 pts/cycle)
stereo_fft_cplxf_ie	N=1024	24633 (0.042 pts/cycle)
stereo_fft_cplxf_ie	N=2048 N=4096	64822 (0.032 pts/cycle) 117825 (0.035 pts/cycle)
stereo_fft_cplxf_ie stereo ifft cplxf ie	N=4096 N=8	138 (0.058 pts/cycle)
stereo ifft cplxf ie	N=16	195 (0.082 pts/cycle)
stereo_ifft_cplxf_ie	N=32	576 (0.056 pts/cycle)
stereo ifft cplxf ie	N=64	1008 (0.063 pts/cycle)
stereo_ifft_cplxf_ie	N=128	2774 (0.046 pts/cycle)
stereo_ifft_cplxf_ie stereo_ifft_cplxf_ie	N=256 N=512	5145 (0.050 pts/cycle) 13359 (0.038 pts/cycle)
stereo ifft cplxf ie	N=1024	25315 (0.040 pts/cycle)
stereo ifft cplxf ie	N=2048	62968 (0.033 pts/cycle)
stereo_ifft_cplxf_ie	N=4096	120555 (0.034 pts/cycle)
Real FFT with Optimized		
Memory	W 056	1660 (0.154) (
fft_real16x16_ie fft real16x16 ie	N=256 N=512	1660 (0.154 pts/cycle) 3034 (0.169 pts/cycle)
fft real16x16 ie	N=1024	6356 (0.161 pts/cycle)
fft real32x16 ie	N=256, scaling=3	1431 (0.179 pts/cycle)
fft_real32x16_ie	N=256, scaling=2	1519 (0.169 pts/cycle)
fft_real32x16_ie	N=512, scaling=3	2683 (0.191 pts/cycle)
fft_real32x16_ie fft_real32x16_ie	N=512, scaling=2 N=1024, scaling=3	2825 (0.181 pts/cycle) 6106 (0.168 pts/cycle)
fft real32x16 ie	N=1024, Scaling=3 N=1024, scaling=2	6357 (0.161 pts/cycle)
fft real32x32 ie	N=256, scaling=3	1335 (0.192 pts/cycle)
fft_real32x32_ie	N=256, scaling=2	1694 (0.151 pts/cycle)
fft_real32x32_ie	N=512, scaling=3	2283 (0.224 pts/cycle)
fft_real32x32_ie	N=512, scaling=2 N=1024, scaling=3	2948 (0.174 pts/cycle)
fft_real32x32_ie fft_real32x32_ie	N=1024, scaling=3 N=1024, scaling=2	5314 (0.193 pts/cycle) 6578 (0.156 pts/cycle)
ifft real16x16 ie	N=256	1736 (0.147 pts/cycle)
ifft real16x16 ie	N=512	3172 (0.161 pts/cycle)
ifft_real16x16_ie	N=1024	6625 (0.155 pts/cycle)
ifft_real32x16_ie	N=256, scaling=3	1468 (0.174 pts/cycle)
ifft_real32x16_ie ifft_real32x16_ie	N=256, scaling=2 N=512, scaling=3	1805 (0.142 pts/cycle) 2810 (0.182 pts/cycle)
ifft real32x16_ie	N=512, scaling=3 N=512, scaling=2	3462 (0.148 pts/cycle)
ifft real32x16 ie	N=1024, scaling=3	6286 (0.163 pts/cycle)
ifft_real32x16_ie	N=1024, scaling=2	7571 (0.135 pts/cycle)
ifft_real32x32_ie	N=256, scaling=3	1332 (0.192 pts/cycle)
ifft_real32x32_ie	N=256, scaling=2	1646 (0.156 pts/cycle)
ifft_real32x32_ie ifft_real32x32_ie	N=512, scaling=3 N=512, scaling=2	2296 (0.223 pts/cycle) 2852 (0.180 pts/cycle)
ifft real32x32_ie	N=512, scaling=2 N=1024, scaling=3	5358 (0.191 pts/cycle)
ifft real32x32 ie	N=1024, scaling=2	6385 (0.160 pts/cycle)
fft_realf_ie	N=8	41 (0.195 pts/cycle)
fft_realf_ie	N=16	133 (0.120 pts/cycle)
fft_realf_ie	N=32	226 (0.142 pts/cycle)
fft_realf_ie	N=64 N=128	368 (0.174 pts/cycle)
fft_realf_ie fft_realf_ie	N=128 N=256	826 (0.155 pts/cycle) 1495 (0.171 pts/cycle)
fft realf ie	N=512	3577 (0.143 pts/cycle)
fft_realf_ie	N=1024	6894 (0.149 pts/cycle)
fft_realf_ie	N=2048	16384 (0.125 pts/cycle)
fft_realf_ie	N=4096	32117 (0.128 pts/cycle)
ifft_realf_ie ifft_realf_ie	N=8	42 (0.190 pts/cycle)
IIII: realT le	N=16 N=32	137 (0.117 pts/cycle) 242 (0.132 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
ifft realf ie	N=64	370 (0.173 pts/cycle)
ifft realf ie	N=128	830 (0.154 pts/cycle)
ifft_realf_ie	N=256	1482 (0.173 pts/cycle)
ifft_realf_ie	N=512	3590 (0.143 pts/cycle)
ifft_realf_ie ifft_realf_ie	N=1024 N=2048	6818 (0.150 pts/cycle)
ifft realf ie	N=2048 N=4096	16431 (0.125 pts/cycle) 31788 (0.129 pts/cycle)
DCT DCT	14-4030	31780 (0:129 pcs/cycle)
dct 32x16	N=32, scalingOpt=3	153 (cycles)
dct 32x16	N=64, scalingOpt=3	300 (cycles)
dct_32x32	N=32, scalingOpt=3	173 (cycles)
dct_32x32	N=64, scalingOpt=3	291 (cycles)
dct_16x16	N=32, scalingOpt=3	206 (cycles)
dct_16x16	N=64, scalingOpt=3 N=32, scalingOpt=3	381 (cycles)
dct4_32x16 dct4_32x16	N=32, scalingOpt=3 N=64, scalingOpt=3	238 (cycles) 602 (cycles)
dct4_32x16	N=128, scalingOpt=3	1256 (cycles)
dct4 32x16	N=256, scalingOpt=3	2114 (cycles)
dct4 32x16	N=512, scalingOpt=3	4905 (cycles)
dct4_32x32	N=32, scalingOpt=3	271 (cycles)
dct4_32x32	N=64, scalingOpt=3	644 (cycles)
dct4_32x32	N=128, scalingOpt=3	1315 (cycles)
dct4_32x32	N=256, scalingOpt=3	2299 (cycles)
dct4_32x32 mdct 32x16	N=512, scalingOpt=3	5174 (cycles)
mdct_32x16 mdct 32x16	N=32, scalingOpt=3 N=64, scalingOpt=3	332 (cycles) 737 (cycles)
mdct 32x16	N=128, scalingOpt=3	1471 (cycles)
mdct 32x16	N=256, scalingOpt=3	2489 (cycles)
mdct 32x16	N=512, scalingOpt=3	5600 (cycles)
mdct_32x32	N=32, scalingOpt=3	368 (cycles)
mdct_32x32	N=64, scalingOpt=3	781 (cycles)
mdct_32x32	N=128, scalingOpt=3	1532 (cycles)
mdct_32x32	N=256, scalingOpt=3	2677 (cycles)
mdct_32x32 imdct 32x16	N=512, scalingOpt=3 N=32, scalingOpt=3	5871 (cycles)
imdct_32x16	N=64, scalingOpt=3	338 (cycles) 743 (cycles)
imdct_32x16	N=128, scalingOpt=3	1479 (cycles)
imdct 32x16	N=256, scalingOpt=3	2495 (cycles)
imdct 32x16	N=512, scalingOpt=3	5608 (cycles)
imdct_32x32	N=32, scalingOpt=3	372 (cycles)
imdct_32x32	N=64, scalingOpt=3	785 (cycles)
imdct_32x32	N=128, scalingOpt=3	1536 (cycles)
imdct_32x32	N=256, scalingOpt=3	2681 (cycles)
imdct_32x32 dct2d 8x16	N=512, scalingOpt=3 N=8, L=1, scalingOpt=0	5877 (cycles) 271 (271.0 cycles/block)
dct2d_6x16	N-0, L-1, ScalingOpt-0	8300 (259.4
dct2d 8x16	N=8, L=32, scalingOpt=0	cycles/block)
		265228 (259.0
dct2d_8x16	N=8, L=1024, scalingOpt=0	cycles/block)
idct2d_16x8	N=8, L=1, scalingOpt=0	272 (272.0 cycles/block)
:da+2d 16:0	N=0 I=22 00-1:0-+-0	8240 (257.5
idct2d_16x8	N=8, L=32, scalingOpt=0	cycles/block) 263183 (257.0
idct2d 16x8	N=8, L=1024, scalingOpt=0	cycles/block)
dctf	N=32	240 (cycles)
dctf	N=64	477 (cycles)
FFT power spectrum		
functions		
fft_spectrum16x32	N=2 [mode=0 bexp=-1]	112 (0.02 pts/cycle)
fft_spectrum16x32 fft_spectrum16x32	N=4[mode=0 bexp=-1] N=8[mode=0 bexp=-1]	130 (0.03 pts/cycle) 171 (0.05 pts/cycle)
fft spectrum16x32	N=16[mode=0 bexp=-1] N=16[mode=0 bexp=-1]	249 (0.06 pts/cycle)
fft spectrum16x32	N=32[mode=0 bexp=-1]	393 (0.08 pts/cycle)
fft spectrum16x32	N=64 [mode=0 bexp=-1]	682 (0.09 pts/cycle)
fft_spectrum16x32	N=128[mode=0 bexp=-1]	1257 (0.10 pts/cycle)
fft_spectrum16x32	N=256[mode=0 bexp=-1]	2482 (0.10 pts/cycle)
fft_spectrum16x32	N=512[mode=0 bexp=-1]	4928 (0.10 pts/cycle)
fft_spectrum16x32	N=2048[mode=0 bexp=-1]	19617 (0.10 pts/cycle)
fft_spectrum16x32	N=4096[mode=0 bexp=-1]	39201 (0.10 pts/cycle)
fft_spectrum16x32	N=8192[mode=0 bexp=-1]	78369 (0.10 pts/cycle)
fft_spectrum16x32	N=16384[mode=0 bexp=-1]	156705 (0.10 pts/cycle)
fft_spectrum16x32 fft_spectrum16x32	N=32768[mode=0 bexp=-1] N=65536[mode=0 bexp=-1]	313378 (0.10 pts/cycle) 626722 (0.10 pts/cycle)

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Procedion name			Cycles Measurements
### fit spectrum[6832 N=[node=1 besp=-1]	Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
### Fir spectrum16x32 N=6 mode=1 bexp=-1 207 (0.04 ptx/cycle) ### spectrum16x32 N=16 mode=1 bexp=-1 328 (0.05 ptx/cycle) ### spectrum16x32 N=2 mode=1 bexp=-1 328 (0.10 ptx/cycle) ### spectrum16x32 N=2 mode=1 bexp=-1 328 (0.10 ptx/cycle) ### spectrum16x32 N=12 mode=1 bexp=-1 328 (0.10 ptx/cycle) ### spectrum16x32 N=12 mode=1 bexp=-1 328 (0.17 ptx/cycle) ### spectrum16x32 N=2 mode=1 bexp=-1 328 (0.17 ptx/cycle) ### spectrum16x32 N=2 mode=1 bexp=-1 328 (0.12 ptx/cycle) ### spectrum16x32 N=2 mode=1 bexp=-1 329 (0.22 ptx/cycle) ### spectrum16x32 N=12 mode=1 bexp=-1 39278 (0.23 ptx/cycle) ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=1 bexp=-1 10 mode=1 bexp=-1 ### spectrum16x32 N=2 mode=0 bexp=-1 10 mode=1 ###	fft spectrum16x32	N=2[mode=1 bexp=-1]	111 (0.02 pts/cycle)
### fft spectrum16x32	fft_spectrum16x32	* '	190 (0.02 pts/cycle)
Message Mess		* '	
### fft spectrum16x32		12 11 1	
### fft spectrum16x32	*		
fft spectrum16x32			
### fft spectrum16x32	*		
fft spectrum16x32 N=092[mode=1 bexp=-1] 39278 (0.21 pts/cycle) fft spectrum16x32 N=1534[mode=1 bexp=-1] 78447 (0.21 pts/cycle) fft spectrum16x32 N=05378[mode=1 bexp=-1] 78447 (0.21 pts/cycle) fft spectrum16x32 N=05378[mode=1 bexp=-1] 313455 (0.21 pts/cycle) fft spectrum16x32 N=05358[mode=1 bexp=-1] 313455 (0.21 pts/cycle) fft spectrum16x32 N=05358[mode=1 bexp=-1] 5006 (0.20 pts/cycle) fft spectrum16x32 N=01024[mode=1 bexp=-1] 191045 (0.20 pts/cycle) fft spectrum16x32 N=01024[mode=1 bexp=-1] 19104 (0.20 pts/cycle) fft spectrum16x32 N=01024[mode=0 bexp=-1 implace] 170 (0.03 pts/cycle) fft spectrum16x32 N=01024[mode=0 bexp=-1 implace] 170 (0.05 pts/cycle) fft spectrum16x32 N=01024[mode=0 bexp=-1 implace] 247 (0.05 pts/cycle) fft spectrum16x32 N=052[mode=0 bexp=-1 implace] 392 (0.09 pts/cycle) fft spectrum16x32 N=052[mode=0 bexp=-1 implace] 392 (0.09 pts/cycle) fft spectrum16x32 N=052[mode=0 bexp=-1 implace] 1256 (0.10 pts/cycle) fft spectrum16x32 N=052[mode=0 bexp=-1 implace] 1256 (0.10 pts/cycle) fft spectrum16x32 N=052[mode=0 bexp=-1 implace] 1256 (0.10 pts/cycle) fft spectrum16x32 N=052[mode=0 bexp=-1 implace] 1950 (0.10 pts/cycle) fft spectrum16x32 N=054[mode=0 bexp=-1 implace] 39200 (0.10 pts/cycle) fft spectrum16x32 N=054[mode=0 bexp=-1 implace] 1950 (0.10 pts/cycle) fft spectrum16x32 N=053[mode=0 bexp=-1 implace] 1950 (0.00 pts/cycle) fft spectrum16x32 N=053[mode=0 bexp=-1] 1950 (0.00 pts/	fft_spectrum16x32		
Separtrum16x32			
Fft spectrum16x32	*		
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fft spectrum16x32	*		
fft spectrum16x32			
fft spectrum16x32 N=32[mode=0 bexps=1 inplace] 392 (0.08 pts/cycle) fft spectrum16x32 N=128[mode=0 bexps=1 inplace] 1680 (0.09 pts/cycle) fft spectrum16x32 N=128[mode=0 bexps=1 inplace] 1256 (0.10 pts/cycle) fft spectrum16x32 N=2048[mode=0 bexp=1 inplace] 1923 (0.10 pts/cycle) fft spectrum16x32 N=2048[mode=0 bexp=1 inplace] 1923 (0.10 pts/cycle) fft spectrum16x32 N=4098[mode=0 bexp=1 inplace] 78268 (0.10 pts/cycle) fft spectrum16x32 N=8192[mode=0 bexp=-1 inplace] 78268 (0.10 pts/cycle) fft spectrum16x32 N=4638[mode=0 bexp=-1 inplace] 156704 (0.10 pts/cycle) fft spectrum16x32 N=32768[mode=0 bexp=-1 inplace] 313376 (0.10 pts/cycle) fft spectrum16x32 N=6258[mode=0 bexp=-1 inplace] 9824 (0.10 pts/cycle) fft spectrum16x32 N=2048[mode=1 bexp=-1 inplace] 198 (0.02 pts/cycle) fft spectrum16x32 N=16 [mode=1 bexp=-1 inplace] 199 (0.02 pts/cycle) fft spectrum16x32 N=64 [mode=1 bexp=-1 inplace] 190 (0.02 pts/cycle) </td <td> *</td> <td>1 1 1</td> <td></td>	*	1 1 1	
fft spectrum16x32			
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fft spectrum16x32			
fft spectrum16x32	fft_spectrum16x32		2480 (0.10 pts/cycle)
fft spectrum16x32 N=4096[mode=0 bexp=-1 inplace] 39200 (0.10 pts/cycle) fft spectrum16x32 N=16384[mode=0 bexp=-1 inplace] 178368 (0.10 pts/cycle) fft spectrum16x32 N=52768[mode=0 bexp=-1 inplace] 156704 (0.10 pts/cycle) fft spectrum16x32 N=52768[mode=0 bexp=-1 inplace] 318376 (0.10 pts/cycle) fft spectrum16x32 N=1024[mode=0 bexp=-1 inplace] 36247 (0.10 pts/cycle) fft spectrum16x32 N=1024[mode=1 bexp=-1 inplace] 189 (0.02 pts/cycle) fft spectrum16x32 N=4(mode=1 bexp=-1 inplace) 189 (0.02 pts/cycle) fft spectrum16x32 N=6(mode=1 bexp=-1 inplace) 249 (0.06 pts/cycle) fft spectrum16x32 N=16(mode=1 bexp=-1 inplace) 249 (0.06 pts/cycle) fft spectrum16x32 N=256[mode=1 bexp=-1 inplace] 471 (0.14 pts/cycle) fft spectrum16x32 N=256[mode=1 bexp=-1 inplace] 472 (0.14 pts/cycle) fft spectrum16x32 N=252[mode=1 bexp=-1 inplace] 355 (0.19 pts/cycle) fft spectrum16x32 N=264[mode=1 bexp=-1 inplace] 355 (0.12 pts/cycle)			
fft spectrum16x32 N=6184[mode=0 bexp=-1 inplace] 78368 (0.10 pts/cycle) fft spectrum16x32 N=6184[mode=0 bexp=-1 inplace] 156704 (0.10 pts/cycle) fft spectrum16x32 N=65536[mode=0 bexp=-1 inplace] 313376 (0.10 pts/cycle) fft spectrum16x32 N=65536[mode=0 bexp=-1 inplace] 626720 (0.10 pts/cycle) fft spectrum16x32 N=1024[mode=0 bexp=-1 inplace] 9824 (0.10 pts/cycle) fft spectrum16x32 N=0124[mode=0 bexp=-1 inplace] 111 (0.02 pts/cycle) fft spectrum16x32 N=1024[mode=1 bexp=-1 inplace] 111 (0.02 pts/cycle) fft spectrum16x32 N=8[mode=1 bexp=-1 inplace] 206 (0.04 pts/cycle) fft spectrum16x32 N=8[mode=1 bexp=-1 inplace] 206 (0.04 pts/cycle) fft spectrum16x32 N=64[mode=1 bexp=-1 inplace] 249 (0.06 pts/cycle) fft spectrum16x32 N=64[mode=1 bexp=-1 inplace] 326 (0.10 pts/cycle) fft spectrum16x32 N=64[mode=1 bexp=-1 inplace] 326 (0.10 pts/cycle) fft spectrum16x32 N=64[mode=1 bexp=-1 inplace] 326 (0.10 pts/cycle) fft spectrum16x32 N=256[mode=1 bexp=-1 inplace] 3135 (0.19 pts/cycle) fft spectrum16x32 N=256[mode=1 bexp=-1 inplace] 3135 (0.19 pts/cycle) fft spectrum16x32 N=2048[mode=1 bexp=-1 inplace] 3927 (0.21 pts/cycle) fft spectrum16x32 N=0048[mode=1 bexp=-1 inplace] 3927 (0.21 pts/cycle) fft spectrum16x32 N=0048[mode=1 bexp=-1 inplace] 3927 (0.21 pts/cycle) fft spectrum16x32 N=1024[mode=1 bexp=-1 inplace] 3927 (0.21 pts/cycle) fft spectrum32x32 N=1024[mode=1 bexp=-1 inplace] 313455 (0.21 pts/cycle) fft spectrum32x32 N=1024[mode=1 bexp=-1] 11026 313455 (0.21 pts/cycle) fft spectrum32x32 N=1024[mode=1 bexp=-1] 3156 (0.01 pts/cycle) fft spectrum32x32 N=1024[mode=1 bexp=-1] 3156 (0.01 pts/cycle) fft spectrum32x32 N=1024[mode=1 bexp=-1] 3156 (0.01 pts/cycle) fft spectrum32x32 N=1024[mode=0 bexp=-1] 3156 (0.01 pts/cycle) fft spectrum32x32 N=1024[mode=0 bexp=-1] 3156 (0.01 pts/cycle) fft spectrum32x32 N=1024[mode=0 bexp=-1]		1 1	
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Fft spectrum16x32			
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First spectrum16x32			
M=16 mode=1 bexp=-1 inplace			
Fft spectrum16x32			
Fft spectrum16x32	*		
Fit spectrum16x32			
fft spectrum16x32 N=256[mode=1 bexp=-1 inplace] 1335 (0.19 pts/cycle) fft spectrum16x32 N=512[mode=1 bexp=-1 inplace] 2559 (0.20 pts/cycle) fft spectrum16x32 N=2048[mode=1 bexp=-1 inplace] 9903 (0.21 pts/cycle) fft spectrum16x32 N=4096[mode=1 bexp=-1 inplace] 19695 (0.21 pts/cycle) fft spectrum16x32 N=8192[mode=1 bexp=-1 inplace] 39279 (0.21 pts/cycle) fft spectrum16x32 N=6384[mode=1 bexp=-1 inplace] 78447 (0.21 pts/cycle) fft spectrum16x32 N=32768[mode=1 bexp=-1 inplace] 156783 (0.21 pts/cycle) fft spectrum16x32 N=65536[mode=1 bexp=-1 inplace] 156783 (0.21 pts/cycle) fft spectrum36x32 N=626[mode=1 bexp=-1 inplace] 313455 (0.21 pts/cycle) fft spectrum32x32 N=2[mode=0 bexp=-1] 176 (0.02 pts/cycle) fft spectrum32x32 N=2[mode=0 bexp=-1] 176 (0.02 pts/cycle) fft spectrum32x32 N=8[mode=0 bexp=-1] 176 (0.02 pts/cycle) fft spectrum32x32 N=16[mode=0 bexp=-1] 176 (0.02 pts/cycle) fft			
### Spectrum16x32			
fft_spectrum16x32 N=4096[mode=1 bexp=-1 inplace] 19695 (0.21 pts/cycle) fft_spectrum16x32 N=8192[mode=1 bexp=-1 inplace] 39279 (0.21 pts/cycle) fft_spectrum16x32 N=16384[mode=1 bexp=-1 inplace] 78447 (0.21 pts/cycle) fft_spectrum16x32 N=32768[mode=1 bexp=-1 inplace] 156783 (0.21 pts/cycle) fft_spectrum16x32 N=65536[mode=1 bexp=-1 inplace] 313455 (0.21 pts/cycle) fft_spectrum32x32 N=1024[mode=1 bexp=-1 inplace] 5007 (0.20 pts/cycle) fft_spectrum32x32 N=2 [mode=0 bexp=-1] 135 (0.01 pts/cycle) fft_spectrum32x32 N=4 [mode=0 bexp=-1] 176 (0.02 pts/cycle) fft_spectrum32x32 N=8 [mode=0 bexp=-1] 308 (0.05 pts/cycle) fft_spectrum32x32 N=32 [mode=0 bexp=-1] 474 (0.07 pts/cycle) fft_spectrum32x32 N=32 [mode=0 bexp=-1] 814 (0.08 pts/cycle) fft_spectrum32x32 N=26 [mode=0 bexp=-1] 814 (0.08 pts/cycle) fft_spectrum32x32 N=256 [mode=0 bexp=-1] 3172 (0.08 pts/cycle) fft_spectrum32x32 N=2048 [mode=0 bexp=-1] 50333 (0.08 pts/cycle) fft_spectrum32x32 N=4096 [mode=0 bexp=-1] 50333 (0.08 pts/cycle)	*		2559 (0.20 pts/cycle)
Fit spectrum16x32	*		
The spectrum Spect	1		
fft spectrum16x32 N=32768[mode=1 bexp=-1 inplace] 156783 (0.21 pts/cycle) fft spectrum16x32 N=65536[mode=1 bexp=-1 inplace] 313455 (0.21 pts/cycle) fft spectrum16x32 N=1024[mode=1 bexp=-1 inplace] 5007 (0.20 pts/cycle) fft spectrum32x32 N=2[mode=0 bexp=-1] 135 (0.01 pts/cycle) fft spectrum32x32 N=4[mode=0 bexp=-1] 176 (0.02 pts/cycle) fft spectrum32x32 N=8[mode=0 bexp=-1] 176 (0.02 pts/cycle) fft spectrum32x32 N=8[mode=0 bexp=-1] 308 (0.05 pts/cycle) fft spectrum32x32 N=16[mode=0 bexp=-1] 474 (0.07 pts/cycle) fft spectrum32x32 N=64[mode=0 bexp=-1] 814 (0.08 pts/cycle) fft spectrum32x32 N=128[mode=0 bexp=-1] 1600 (0.08 pts/cycle) fft spectrum32x32 N=512[mode=0 bexp=-1] 3172 (0.08 pts/cycle) fft spectrum32x32 N=254[mode=0 bexp=-1] 5316 (0.08 pts/cycle) fft spectrum32x32 N=806[mode=0 bexp=-1] 50333 (0.08 pts/cycle) fft spectrum32x32 N=8192[mode=0 be			
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fft_spectrum32x32			
fft_spectrum32x32			
	fft_spectrum32x32	N=2048[mode=1 bexp=-1]	12700 (0.16 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
fft spectrum32x32	N=4096[mode=1 bexp=-1]	25260 (0.16 pts/cycle)
fft_spectrum32x32	N=8192[mode=1 bexp=-1]	50380 (0.16 pts/cycle)
fft_spectrum32x32	N=16384[mode=1 bexp=-1]	100615 (0.16 pts/cycle)
fft_spectrum32x32 fft spectrum32x32	N=32768[mode=1 bexp=-1] N=65536[mode=1 bexp=-1]	201095 (0.16 pts/cycle) 402055 (0.16 pts/cycle)
fft spectrum32x32	N=1024[mode=1 bexp=-1]	6419 (0.16 pts/cycle)
fft spectrum32x32	N=2[mode=0 bexp=-1 inplace]	135 (0.01 pts/cycle)
fft_spectrum32x32	N=4[mode=0 bexp=-1 inplace]	176 (0.02 pts/cycle)
fft_spectrum32x32	N=8[mode=0 bexp=-1 inplace]	222 (0.04 pts/cycle)
fft_spectrum32x32	N=16[mode=0 bexp=-1 inplace]	308 (0.05 pts/cycle)
fft_spectrum32x32 fft spectrum32x32	N=32[mode=0 bexp=-1 inplace] N=64[mode=0 bexp=-1 inplace]	474 (0.07 pts/cycle) 814 (0.08 pts/cycle)
fft spectrum32x32	N=128[mode=0 bexp=-1 inplace]	1600 (0.08 pts/cycle)
fft spectrum32x32	N=256[mode=0 bexp=-1 inplace]	3172 (0.08 pts/cycle)
fft spectrum32x32	N=512[mode=0 bexp=-1 inplace]	6316 (0.08 pts/cycle)
fft_spectrum32x32	N=2048[mode=0 bexp=-1 inplace]	25180 (0.08 pts/cycle)
fft_spectrum32x32	N=4096[mode=0 bexp=-1 inplace]	50332 (0.08 pts/cycle)
fft_spectrum32x32	N=8192[mode=0 bexp=-1 inplace]	100636 (0.08 pts/cycle)
fft_spectrum32x32	N=16384[mode=0 bexp=-1 inplace]	201244 (0.08 pts/cycle)
fft_spectrum32x32 fft spectrum32x32	N=32768[mode=0 bexp=-1 inplace] N=65536[mode=0 bexp=-1 inplace]	402460 (0.08 pts/cycle) 804892 (0.08 pts/cycle)
fft spectrum32x32	N=05536[mode=0 bexp=-1 inplace] N=1024[mode=0 bexp=-1 inplace]	12604 (0.08 pts/cycle)
fft spectrum32x32	N=2[mode=1 bexp=-1 inplace]	134 (0.01 pts/cycle)
fft spectrum32x32	N=4[mode=1 bexp=-1 inplace]	241 (0.02 pts/cycle)
fft_spectrum32x32	N=8[mode=1 bexp=-1 inplace]	282 (0.03 pts/cycle)
fft_spectrum32x32	N=16[mode=1 bexp=-1 inplace]	327 (0.05 pts/cycle)
fft_spectrum32x32	N=32[mode=1 bexp=-1 inplace]	413 (0.08 pts/cycle)
fft_spectrum32x32	N=64[mode=1 bexp=-1 inplace]	579 (0.11 pts/cycle)
fft_spectrum32x32 fft_spectrum32x32	N=128[mode=1 bexp=-1 inplace] N=256[mode=1 bexp=-1 inplace]	919 (0.14 pts/cycle) 1704 (0.15 pts/cycle)
fft spectrum32x32	N=512[mode=1 bexp=-1 inplace]	3274 (0.16 pts/cycle)
fft spectrum32x32	N=2048[mode=1 bexp=-1 inplace]	12699 (0.16 pts/cycle)
fft_spectrum32x32	N=4096[mode=1 bexp=-1 inplace]	25259 (0.16 pts/cycle)
fft_spectrum32x32	N=8192[mode=1 bexp=-1 inplace]	50379 (0.16 pts/cycle)
fft_spectrum32x32	N=16384[mode=1 bexp=-1 inplace]	100614 (0.16 pts/cycle)
fft_spectrum32x32	N=32768[mode=1 bexp=-1 inplace]	201094 (0.16 pts/cycle)
fft_spectrum32x32 fft spectrum32x32	N=65536[mode=1 bexp=-1 inplace] N=1024[mode=1 bexp=-1 inplace]	402055 (0.16 pts/cycle) 6418 (0.16 pts/cycle)
fft spectrumf	N=2[mode=0]	107 (0.02 pts/cycle)
fft spectrumf	N=4 [mode=0]	138 (0.03 pts/cycle)
fft spectrumf	N=8 [mode=0]	225 (0.04 pts/cycle)
fft_spectrumf	N=16[mode=0]	362 (0.04 pts/cycle)
fft_spectrumf	N=32[mode=0]	638 (0.05 pts/cycle)
fft_spectrumf	N=64 [mode=0]	1190 (0.05 pts/cycle)
fft_spectrumf	N=128 [mode=0] N=256 [mode=0]	2294 (0.06 pts/cycle)
fft_spectrumf fft spectrumf	N=236[mode=0] N=512[mode=0]	4576 (0.06 pts/cycle) 9140 (0.06 pts/cycle)
fft spectrumf	N=2048[mode=0]	36525 (0.06 pts/cycle)
fft spectrumf	N=4096[mode=0]	73037 (0.06 pts/cycle)
fft_spectrumf	N=8192[mode=0]	146061 (0.06 pts/cycle)
fft_spectrumf	N=16384[mode=0]	292109 (0.06 pts/cycle)
fft_spectrumf	N=32768[mode=0]	584205 (0.06 pts/cycle)
fft_spectrumf	N=65536[mode=0]	1168397 (0.06 pts/cycle)
fft_spectrumf fft spectrumf	N=1024[mode=0] N=2[mode=1]	18268 (0.06 pts/cycle) 106 (0.02 pts/cycle)
fft spectrumf	N=2[Mode=1] N=4[mode=1]	201 (0.02 pts/cycle)
fft spectrumf	N=8 [mode=1]	237 (0.03 pts/cycle)
fft_spectrumf	N=16[mode=1]	319 (0.05 pts/cycle)
fft_spectrumf	N=32[mode=1]	456 (0.07 pts/cycle)
fft_spectrumf	N=64 [mode=1]	732 (0.09 pts/cycle)
fft_spectrumf fft spectrumf	N=128 [mode=1]	1284 (0.10 pts/cycle)
fft spectrumf	N=256[mode=1] N=512[mode=1]	2388 (0.11 pts/cycle) 4670 (0.11 pts/cycle)
fft spectrumf	N=2048 [mode=1]	18363 (0.11 pts/cycle)
fft spectrumf	N=4096[mode=1]	36619 (0.11 pts/cycle)
fft_spectrumf	N=8192 [mode=1]	73131 (0.11 pts/cycle)
fft_spectrumf	N=16384[mode=1]	146155 (0.11 pts/cycle)
fft_spectrumf	N=32768[mode=1]	292203 (0.11 pts/cycle)
fft_spectrumf	N=65536[mode=1]	584299 (0.11 pts/cycle)
fft_spectrumf	N=1024[mode=1]	9235 (0.11 pts/cycle)
fft_spectrumf	N=2[mode=0 inplace] N=4[mode=0 inplace]	107 (0.02 pts/cycle) 138 (0.03 pts/cycle)
fft_spectrumf fft spectrumf	N=8[mode=0 inplace]	225 (0.04 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5
fft_spectrumf	N=32[mode=0 inplace]	638 (0.05 pts/cycle)
fft_spectrumf	N=64[mode=0 inplace]	1190 (0.05 pts/cycle)
fft_spectrumf	N=128[mode=0 inplace]	2294 (0.06 pts/cycle)
fft_spectrumf fft spectrumf	N=256[mode=0 inplace] N=512[mode=0 inplace]	4576 (0.06 pts/cycle) 9140 (0.06 pts/cycle)
fft spectrumf	N=512[mode=0 inplace] N=2048[mode=0 inplace]	36524 (0.06 pts/cycle)
fft spectrumf	N=4096[mode=0 inplace]	73036 (0.06 pts/cycle)
fft_spectrumf	N=8192[mode=0 inplace]	146060 (0.06 pts/cycle)
fft_spectrumf	N=16384[mode=0 inplace]	292108 (0.06 pts/cycle)
fft_spectrumf	N=32768[mode=0 inplace]	584204 (0.06 pts/cycle)
fft_spectrumf fft spectrumf	N=65536[mode=0 inplace] N=1024[mode=0 inplace]	1168396 (0.06 pts/cycle) 18268 (0.06 pts/cycle)
fft spectrumf	N=2[mode=0 inplace]	106 (0.02 pts/cycle)
fft spectrumf	N=4[mode=1 inplace]	201 (0.02 pts/cycle)
fft spectrumf	N=8[mode=1 inplace]	237 (0.03 pts/cycle)
fft_spectrumf	N=16[mode=1 inplace]	319 (0.05 pts/cycle)
fft_spectrumf	N=32[mode=1 inplace]	456 (0.07 pts/cycle)
fft_spectrumf	N=64[mode=1 inplace]	732 (0.09 pts/cycle)
fft_spectrumf	N=128[mode=1 inplace]	1284 (0.10 pts/cycle)
fft_spectrumf fft spectrumf	N=256[mode=1 inplace] N=512[mode=1 inplace]	2388 (0.11 pts/cycle) 4670 (0.11 pts/cycle)
fft spectrumf	N=512[mode=1 inplace] N=2048[mode=1 inplace]	18362 (0.11 pts/cycle)
fft spectrumf	N=4096[mode=1 inplace]	36618 (0.11 pts/cycle)
fft_spectrumf	N=8192[mode=1 inplace]	73130 (0.11 pts/cycle)
fft_spectrumf	N=16384[mode=1 inplace]	146154 (0.11 pts/cycle)
fft_spectrumf	N=32768[mode=1 inplace]	292202 (0.11 pts/cycle)
fft_spectrumf	N=65536[mode=1 inplace]	584297 (0.11 pts/cycle)
fft_spectrumf	N=1024[mode=1 inplace]	9232 (0.11 pts/cycle)
MFCC features extraction	Fs: 8000; fftSize: 256; Range:	
logme132x32_process	133.3-3700.0 Hz; Bands: 20; Flavor: HTK	1916 (cycles per STFT hop)
logme132x32 process	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	2768 (cycles per STFT hop)
	Fs: 24000; fftSize: 1024; Range:	
	133.3-6853.8 Hz; Bands: 20; Flavor:	3409 (cycles per STFT
logmel32x32_process	HTK Fs: 32000; fftSize: 2048; Range:	hop)
logmel32x32_process	133.3-6853.8 Hz; Bands: 20; Flavor: HTK	5088 (cycles per STFT hop)
logme132x32 process	Fs: 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 40; Flavor: AUDITORY	2505 (cycles per STFT hop)
logme132x32 process	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	3432 (cycles per STFT
process	Fs: 24000; fftSize: 1024; Range:	hop)
logmel32x32_process	133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	4353 (cycles per STFT hop)
logme132x32 process	Fs: 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	5233 (cycles per STFT hop)
mfcc32x32 process	Fs: 8000; fftSize: 256; Win: 25 ms; Hop: 10 ms; Range: 133.3-3700.0 Hz; Bands: 20; Ceps: 13; Flavor: HTK	5167 (cycles per STFT hop)
	Fs: 16000; fftSize: 512; Win: 25 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz;	8315 (cycles per STFT
mfcc32x32_process	Bands: 20; Ceps: 13; Flavor: HTK Fs: 24000; fftSize: 1024; Win: 25 ms; Hop: 10 ms; Range: 133.3-6853.8	hop) 13145 (cycles per STFT
mfcc32x32_process	Hz; Bands: 20; Ceps: 13; Flavor: HTK Fs: 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range: 133.3-6853.8	hop) 21484 (cycles per STFT
mfcc32x32_process	Hz; Bands: 20; Ceps: 13; Flavor: HTK Fs: 8000; fftSize: 256; Win: 16 ms; Hop: 10 ms; Range: 133.3-3700.0 Hz;	hop)
mfcc32x32_process	Bands: 40; Ceps: 13; Flavor: AUDITORY Fs: 16000; fftSize: 512; Win: 16 ms;	5203 (cycles per STFT hop)
mfcc32x32 process	Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	7880 (cycles per STFT hop)
	Fs: 24000; fftSize: 1024; Win: 16 ms; Hop: 10 ms; Range: 133.3-6853.8	11883 (cycles per STFT
mfcc32x32_process	Hz; Bands: 40; Ceps: 13; Flavor:	hop)

		Cycles Measurements	
Function name	Invocation parameters	RG2018.9, HiFi4 with VFPU, bd5	
	AUDITORY		
	Fs: 32000; fftSize: 2048; Win: 30		
	ms; Hop: 10 ms; Range: 133.3-6853.8		
	Hz; Bands: 40; Ceps: 13; Flavor:	21034 (cycles per STFT	
mfcc32x32_process	AUDITORY	hop)	
	Fs: 8000; fftSize: 256; Range:		
	133.3-3700.0 Hz; Bands: 20; Flavor:	2633 (cycles per STFT	
logmelf_process	HTK Fs: 16000; fftSize: 512; Range:	hop)	
	133.3-6853.8 Hz; Bands: 20; Flavor:	3917 (cycles per STFT	
logmelf process	HTK	hop)	
109.112_2100000	Fs: 24000; fftSize: 1024; Range:	110,07	
	133.3-6853.8 Hz; Bands: 20; Flavor:	4854 (cycles per STFT	
logmelf process	HTK	hop)	
	Fs: 32000; fftSize: 2048; Range:	2	
	133.3-6853.8 Hz; Bands: 20; Flavor:	6730 (cycles per STFT	
logmelf_process	HTK	hop)	
	Fs: 8000; fftSize: 256; Range:		
	133.3-3700.0 Hz; Bands: 40; Flavor:	3538 (cycles per STFT	
logmelf_process	AUDITORY	hop)	
	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 40; Flavor:	4913 (cycles per STFT	
logmelf process	AUDITORY	hop)	
rogmerr_process	Fs: 24000; fftSize: 1024; Range:	1100)	
	133.3-6853.8 Hz; Bands: 40; Flavor:	5866 (cycles per STFT	
logmelf process	AUDITORY	hop)	
	Fs: 32000; fftSize: 2048; Range:		
	133.3-6853.8 Hz; Bands: 40; Flavor:	7655 (cycles per STFT	
logmelf_process	AUDITORY	hop)	
	Fs: 8000; fftSize: 256; Win: 25 ms;	5000 (c 1	
mfccf process	Hop: 10 ms; Range: 133.3-3700.0 Hz; Bands: 20; Ceps: 13; Flavor: HTK	5998 (cycles per STFT hop)	
micci_process	Fs: 16000; fftSize: 512; Win: 25 ms;	1100)	
	Hop: 10 ms; Range: 133.3-6853.8 Hz;	10561 (cycles per STFT	
mfccf process	Bands: 20; Ceps: 13; Flavor: HTK	hop)	
	Fs: 24000; fftSize: 1024; Win: 25	2	
	ms; Hop: 10 ms; Range: 133.3-6853.8	16180 (cycles per STFT	
mfccf_process	Hz; Bands: 20; Ceps: 13; Flavor: HTK	hop)	
	Fs: 32000; fftSize: 2048; Win: 30		
6 6	ms; Hop: 10 ms; Range: 133.3-6853.8	29968 (cycles per STFT	
mfccf_process	Hz; Bands: 20; Ceps: 13; Flavor: HTK Fs: 8000; fftSize: 256; Win: 16 ms;	hop)	
	Hop: 10 ms; Range: 133.3-3700.0 Hz;		
	Bands: 40; Ceps: 13; Flavor:	6031 (cycles per STFT	
mfccf process	AUDITORY	hop)	
	Fs: 16000; fftSize: 512; Win: 16 ms;		
	Hop: 10 ms; Range: 133.3-6853.8 Hz;		
	Bands: 40; Ceps: 13; Flavor:	9899 (cycles per STFT	
mfccf_process	AUDITORY	hop)	
	Fs: 24000; fftSize: 1024; Win: 16		
	ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor:	14714 (cycles per STFT	
mfccf process	AUDITORY	hop)	
301_p100000	Fs: 32000; fftSize: 2048; Win: 30		
	ms; Hop: 10 ms; Range: 133.3-6853.8		
	Hz; Bands: 40; Ceps: 13; Flavor:	27663 (cycles per STFT	
mfccf_process	AUDITORY	hop)	

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 with xcc compiler and c99 as language option.

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

Below, we presented data for RG-2018.9 HiFi4 core with VFPU (bd5).

	Code	Data	Symbols	
Object file	size	size	Global	Referenced
,			bgriir16x16 dfl, bgriir16x16 dfl alloc,	
bqriir16x16_df1_hifi4.o	1719		bqriir16x16_df1_init	
bqriir16x16 df2 hifi4.o	1903		bqriir16x16_df2, bqriir16x16_df2_alloc, bqriir16x16 df2 init	
bqriir32x16_df1_hifi4.o	239		bqriir32x16_df1_alloc, bqriir32x16_df1_init	
bqriir32x16_df1_process_hifi4	1 405		1 1 20 16 161	
.o bgriir32x16 df2 hifi4.o	1485 214		bqriir32x16_df1 bqriir32x16_df2_alloc, bqriir32x16_df2_init	
bqriir32x16_df2_process_hifi4				
.0	1069		bqriir32x16_df2	
bqriir32x32_df1_hifi4.o bqriir32x32_df1_process_hifi4	443		bqriir32x32_df1_alloc, bqriir32x32_df1_init	
.0	1821		bqriir32x32_df1	
bqriir32x32_df2_hifi4.o	151		bqriir32x32_df2_alloc, bqriir32x32_df2_init	
bqriir32x32_df2_process_hifi4	1229		bgriir32x32 df2	
scl complex2invmag hifi4.o	191		scl complex2invmag	
scl_complex2mag_hifi4.o	273		scl_complex2mag	
vec_complex2invmag_hifi4.o	1474		vec_complex2invmag	
vec_complex2mag_hifi4.o fft spectrumf hifi4.o	1676 1302	1	vec_complex2mag fft spectrumf	+
fft_spectrum16x32_hifi4.o	1749	24	fft_spectrum16x32	
fft_spectrum32x32_hifi4.o	2108	24	fft_spectrum32x32	
scl_add_32x16ef_hifi4.o	135 104		scl_add_32x16ef	_
scl mac 32x16ef hifi4.0	194		scl mac 32x16ef	
vec_add_32x16ef_hifi4.o	1034		vec_add_32x16ef	
vec_mul_32x16ef_hifi4.o	612		vec_mul_32x16ef	
vec_mac_32x16ef_hifi4.o vec_dot_32x16ef_hifi4.o	816 1391		vec mac 32x16ef vec dot 32x16ef	
dct 16x16 cffts hifi4.o	1754	16	fft16 16x16, NatureDSP Signal 522	
				fft16_16x16,
dct_16x16_hifi4.o	1004 1528	1.0	dct_16x16	NatureDSP_Signal_522
dct_32x16_cffts_hifi4.o	1328	16	NatureDSP_Signal_016, NatureDSP_Signal_521	NatureDSP Signal 016,
dct_32x16_hifi4.o	498		dct_32x16	NatureDSP_Signal_521
dct_32x32_cffts_hifi4.o	1466	24	fft16_32x32, NatureDSP_Signal_520	
dct 32x32 hifi4.o	498		dct 32x32	fft16_32x32, NatureDSP Signal 520
dct4_32x16_hifi4.o	4647		dct4_32x16	
dct4_32x32_hifi4.o	4708		dct4_32x32	
dct2d_8x16_hifi4.o idct2d 16x8 hifi4.o	966 1339	52 52	dct2d_16_8, dct2d_8x16 idct2d_16_8, idct2d_16x8	_
dctf hifi4.o	1389	4	dctf	fft cplxf ie
				NatureDSP_Signal_523,
fft_cplx_16x16_hifi4.o	329		fft_cplx16x16 NatureDSP Signal 509, NatureDSP Signal 511,	NatureDSP_Signal_524
fft_cplx_16x16_stages_sc12_r2 _r3_r5_hifi4.o	5087	32	NatureDSP_Signal_572, NatureDSP_Signal_573,	divsi3
				divsi3, NatureDSP_Signal_509,
			NatureDSP Signal 510, NatureDSP Signal 524,	NatureDSP_Signal_511, NatureDSP Signal 572,
			NatureDSP Signal 563, NatureDSP Signal 566,	NatureDSP_Signal_573,
fft_cplx_16x16_stages_sc12_r4 r8 hifi4.o	4798	96	NatureDSP_Signal_567, NatureDSP_Signal_571, NatureDSP_Signal_578	NatureDSP_Signal_577, NatureDSP Signal 579
	7130	90	NatureDSP Signal 506, NatureDSP Signal 508,	nacarepor_orginar_079
fft_cplx_16x16_stages_sc13_r2			NatureDSP_Signal_569, NatureDSP_Signal_570,	
_r3_r5_hifi4.o	4148	32	NatureDSP_Signal_574, NatureDSP_Signal_576	divsi3
				NatureDSP Signal 506,
			N	NatureDSP_Signal_508,
			NatureDSP_Signal_507, NatureDSP_Signal_523, NatureDSP Signal 562, NatureDSP Signal 564,	NatureDSP_Signal_569, NatureDSP Signal 570,
fft_cplx_16x16_stages_scl3_r4			NatureDSP_Signal_565, NatureDSP_Signal_568,	NatureDSP_Signal_574,
_r8_hifi4.o	4621	96	NatureDSP_Signal_575	NatureDSP_Signal_576
fft cplx 32x16 hifi4.o	335		fft cplx32x16	NatureDSP_Signal_518, NatureDSP Signal 519
_ *			NatureDSP_Signal_502, NatureDSP_Signal_504,	
			NatureDSP_Signal_505, NatureDSP_Signal_539, NatureDSP_Signal_541, NatureDSP_Signal_542,	
			NatureDSP_Signal_541, NatureDSP_Signal_542, NatureDSP_Signal_548, NatureDSP_Signal_551,	
fft_cplx_32x16_stages_scl2_r2			NatureDSP_Signal_552, NatureDSP_Signal_557,	
r3_r5_hifi4.o fft cplx 32x16 stages scl2 r4	5672	<u> </u>	NatureDSP Signal 559, NatureDSP Signal 560 NatureDSP Signal 503, NatureDSP Signal 519,	divsi3 divsi3,
r8 hifi4.o	3951	96		GIVSI3, NatureDSP Signal 502,

	0-4-	Dete	Symbols			
Object file	Code size	Data size	Global	Referenced		
			NatureDSP_Signal_540, NatureDSP_Signal_549, NatureDSP_Signal_550, NatureDSP_Signal_558	NatureDSP_Signal_504, NatureDSP_Signal_505, NatureDSP_Signal_539, NatureDSP_Signal_541, NatureDSP_Signal_542, NatureDSP_Signal_548, NatureDSP_Signal_551, NatureDSP_Signal_552, NatureDSP_Signal_557, NatureDSP_Signal_559, NatureDSP_Signal_559, NatureDSP_Signal_559, NatureDSP_Signal_560		
fft_cplx_32x16_stages_scl3_r2 _r3_r5_hifi4.o	4874		NatureDSP_Signal_498, NatureDSP_Signal_500, NatureDSP_Signal_501, NatureDSP_Signal_534, NatureDSP_Signal_536, NatureDSP_Signal_537, NatureDSP_Signal_543, NatureDSP_Signal_546, NatureDSP_Signal_547, NatureDSP_Signal_553, NatureDSP_Signal_555, NatureDSP_Signal_556	divsi3		
<pre>fft_cplx_32x16_stages_scl3_r4 r8 hifi4.o fft cplx 32x32 hifi4.o</pre>	323 <u>4</u> 313	96	NatureDSP_Signal_499, NatureDSP_Signal_518, NatureDSP_Signal_531, NatureDSP_Signal_533, NatureDSP_Signal_535, NatureDSP_Signal_544, NatureDSP_Signal_545, NatureDSP_Signal_554 fft cplx32x32	divsi3, NatureDSP_Signal_498, NatureDSP_Signal_500, NatureDSP_Signal_501, NatureDSP_Signal_534, NatureDSP_Signal_536, NatureDSP_Signal_543, NatureDSP_Signal_543, NatureDSP_Signal_546, NatureDSP_Signal_547, NatureDSP_Signal_553, NatureDSP_Signal_555, NatureDSP_Signal_555, NatureDSP_Signal_5556		
			NatureDSP_Signal_341, NatureDSP_Signal_342,			
fft cplx stages S2 radix2 3 5			NatureDSP Signal 343, NatureDSP Signal 344, NatureDSP Signal 345, NatureDSP Signal 346, NatureDSP Signal 350, NatureDSP Signal 351, NatureDSP Signal 352, NatureDSP Signal 353, NatureDSP Signal 354, NatureDSP Signal 355, NatureDSP Signal 356, NatureDSP Signal 359,			
_32x32_hifi4.o	5193		NatureDSP_Signal_360 NatureDSP Signal 347, NatureDSP Signal 348,	divsi3		
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fir interpf_3x hifi4.o 331 NatureDSP_Signal_219 fir interpf_4x hifi4.o 405 NatureDSP_Signal_220 fir interpf_Dx hifi4.o 388 NatureDSP_Signal_221 cxfir_convol32x16_hifi4.o 305 cxfir_convol32x16 cxfir_convola32x16_hifi4.o 1082 cxfir_convola32x16 fir_acorr16x16_hifi4.o 25 fir_acorr16x16 fir_xcorr16x16 fir_acorr32x32ep hifi4.o 257 fir_acorr32x32ep fir_xcorr32x32 fir_acorr32x32 hifi4.o 279 fir_acorr32x32 fir_xcorr32x32ep fir_acorra32x32ep hifi4.o 178 fir_acorra32x32ep NatureDSP_Signal_187 fir_acorra32x32ep hifi4.o 178 fir_acorra32x32ep NatureDSP_Signal_187 fir_blms16x16_hifi4.o 178 fir_acorra32x32ep NatureDSP_Signal_383 fir_blms16x2hifi4.o 178 fir_blms16x16 NatureDSP_Signal_008 fir_blms32x32ep hifi4.o 1101 fir_blms32x32ep NatureDSP_Signal_008 fir_blms32x32 hifi4.o 1152 fir_blms32x32 NatureDSP_Signal_008 cxfir_blms32x32_hifi4.o 1152 fir_blms32x32			14		dedrebbi_bighai_221	
fir interpf 4x hifi4.0 405 NatureDSP Signal 220 fir interpf Dx hifi4.0 388 NatureDSP Signal 221 cxfir convol32x16 hifi4.0 305 cxfir convol32x16 cxfir_convola32x16 hifi4.0 1082 cxfir_convola32x16 fir acorr16x16 hifi4.0 25 fir acorr16x16 fir xcorr16x16 fir acorr32x32ep hifi4.0 25 fir acorr32x32ep fir xcorr32x32 fir acorra16x16 hifi4.0 279 fir acorra16x16 NatureDSP Signal 382 fir acorra32x32ep hifi4.0 178 fir acorra32x32ep NatureDSP Signal 187 fir acorra32x32 hifi4.0 178 fir acorra32x32 NatureDSP Signal 383 fir blms16x16 hifi4.0 1446 fir blms16x16 NatureDSP Signal 008 fir blms32x32ep hifi4.0 1101 fir blms32x32ep NatureDSP Signal 008 fir blms32x32eh hifi4.0 1152 fir blms32x32 NatureDSP Signal 008 cxfir blms32x32 NatureDSP Signal 008 cxfir blms32x32 NatureDSP Signal 008						
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cxfir_convola32x16_hifi4.o 1082 cxfir_convola32x16 fir_acorr16x16 hifi4.o 25 fir_acorr16x16 fir_xcorr16x16 fir_acorr32x32ep hifi4.o 257 fir_acorr32x32ep fir_xcorr32x32 fir_acorr32x32 hifi4.o 25 fir_acorr32x32 fir_xcorr32x32 fir_acorra16x16 hifi4.o 279 fir_acorra16x16 NatureDSP_Signal_382 fir_acorra32x32ep hifi4.o 178 fir_acorra32x32ep NatureDSP_Signal_187 fir_acorra32x32 hifi4.o 178 fir_acorra32x32 NatureDSP_Signal_383 fir_blms16x16_hifi4.o 1446 fir_blms16x16 fir_blms16x32 NatureDSP_Signal_008 fir_blms32x32ep hifi4.o 869 fir_blms32x32ep NatureDSP_Signal_008 fir_blms32x32 hifi4.o 1152 fir_blms32x32 NatureDSP_Signal_008 cxfir_blms32x32 hifi4.o 616 cxfir_blms32x32 NatureDSP_Signal_008	fir interpf Dx hifi4.o	388				
fir acorr16x16 hifi4.0 25 fir acorr16x16 fir xcorr16x16 fir acorr32x32ep hifi4.0 257 fir acorr32x32ep fir xcorr32x32 fir acorr32x32 hifi4.0 25 fir acorra16x16 NatureDSP_Signal_382 fir acorra32x32ep hifi4.0 178 fir acorra32x32ep NatureDSP_Signal_187 fir acorra32x32 hifi4.0 178 fir acorra32x32 NatureDSP_Signal_383 fir blms16x16 hifi4.0 1446 fir blms16x16 NatureDSP_Signal_008 fir blms32x32ep hifi4.0 1101 fir blms16x32 NatureDSP_Signal_008 fir blms32x32ep hifi4.0 869 fir blms32x32ep NatureDSP_Signal_008 fir blms32x32 hifi4.0 1152 fir blms32x32 NatureDSP_Signal_008 cxfir blms32x32 hifi4.0 616 cxfir blms32x32 NatureDSP_Signal_008						
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fir acorra16x16 hifi4.0 279 fir acorra16x16 NatureDSP Signal 382 fir acorra32x32ep hifi4.0 178 fir acorra32x32ep NatureDSP Signal 187 fir acorra32x32 hifi4.0 178 fir acorra32x32 NatureDSP Signal 383 fir blms16x16 hifi4.0 1446 fir blms16x16 NatureDSP Signal 383 fir blms16x32 hifi4.0 1101 fir blms16x32 NatureDSP Signal 008 fir blms32x32ep hifi4.0 869 fir blms32x32ep NatureDSP Signal 008 fir blms32x32 hifi4.0 1152 fir blms32x32 NatureDSP Signal 008 cxfir blms32x32 hifi4.0 616 cxfir blms32x32 NatureDSP Signal 008					fin	
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fir blms16x16 hifi4.0 1446 fir blms16x16 fir blms16x32 hifi4.0 1101 fir blms16x32 NatureDSP_Signal_008 fir blms32x32ep hifi4.0 869 fir blms32x32ep NatureDSP_Signal_008 fir blms32x32 hifi4.0 1152 fir blms32x32 NatureDSP_Signal_008 cxfir blms32x32 hifi4.0 616 cxfir blms32x32 NatureDSP_Signal_008					fir_xcorra32x32,	
fir blms32x32ep hifi4.o 869 fir blms32x32ep NatureDSP Signal 008 fir blms32x32 hifi4.o 1152 fir blms32x32 NatureDSP Signal 008 cxfir blms32x32 hifi4.o 616 cxfir blms32x32 NatureDSP Signal 008						
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cxfir blms32x32 hifi4.0 616 cxfir blms32x32 NatureDSP Signal 008						
	cxfir_blms32x32_hifi4.o fir convol16x16 hifi4.o	616 675		cxfir_blms32x32 fir convol16x16	NatureusP_Signal_008	

	Code	Data size	Symbols		
Object file	Code size		Global	Referenced	
fir_convol32x16_hifi4.o	1355		fir_convol32x16		
fir_convol32x32ep_hifi4.o fir_convol32x32 hifi4.o	331 439		fir_convol32x32ep fir_convol32x32		
fir convola16x16 hifi4.o	312		fir convola16x16	NatureDSP Signal 382	
fir convola32x16 hifi4.o	339		fir convola32x16	NatureDSP Signal 449	
fir_convola32x32ep_hifi4.o	317		fir_convola32x32ep	NatureDSP_Signal_187	
fir_convola32x32_hifi4.o	295		fir_convola32x32	NatureDSP_Signal_383	
fir_lacorra16x16_hifi4.o	1288		fir_lacorra16x16		
fir_lacorra32x32_hifi4.o	764 238		fir_lacorra32x32 fir_lconvola16x16	Natura DOD Giana 1 204	
fir_lconvola16x16_hifi4.o fir lconvola32x32 hifi4.o	238		fir lconvola32x32	NatureDSP Signal 384 NatureDSP Signal 385	
fir lxcorral6x16 hifi4.o	235		fir lxcorral6x16	NatureDSP Signal 384	
fir lxcorra32x32 hifi4.o	218		fir lxcorra32x32	NatureDSP Signal 385	
fir_xcorr16x16_hifi4.o	661		fir_xcorr16x16		
fir_xcorr32x16_hifi4.o	1049		fir_xcorr32x16		
fir_xcorr32x32ep_hifi4.o	260		fir_xcorr32x32ep		
fir_xcorr32x32_hifi4.o	343		fir_xcorr32x32		
cxfir_xcorr32x32_hifi4.o	213		cxfir_xcorr32x32		
cxfir_xcorra32x32_hifi4.o fir xcorra16x16 hifi4.o	351 285		cxfir_xcorra32x32 fir xcorra16x16	NatureDSP Signal 382	
fir xcorra32x16 hifi4.o	283		fir xcorra16x16	NatureDSP_Signal_382 NatureDSP Signal 449	
fir xcorra32x32ep hifi4.o	285		fir xcorra32x32ep	NatureDSP Signal 187	
fir xcorra32x32 hifi4.o	275		fir xcorra32x32	NatureDSP Signal 383	
raw_corr16x16_hifi4.o	769		NatureDSP_Signal_382		
raw_corr32x16_hifi4.o	1335		NatureDSP_Signal_449		
raw_corr32x32_hifi4.o	861		NatureDSP_Signal_383		
raw_corr32x32ep_hifi4.o	466		NatureDSP_Signal_187		
raw_lxcorr16x16_hifi4.o	2496		NatureDSP_Signal_384		
raw_lxcorr32x32_hifi4.o	1400 427		NatureDSP_Signal_385 cxfir xcorraf		
cxfir xcorrf hifi4.0	236		cxfir xcorrf		
fir acorraf hifi4.o	29		fir acorraf	fir xcorraf	
fir acorrf hifi4.o	25		fir acorrf	fir xcorrf	
fir blmsf hifi4.o	612		fir blmsf	_	
cxfir_blmsf_hifi4.o	527		cxfir_blmsf		
fir_convolaf_hifi4.o	331		fir_convolaf	NatureDSP_Signal_256	
fir_convolf_hifi4.o	265		fir_convolf		
fir_xcorraf_hifi4.o	246		fir_xcorraf	NatureDSP_Signal_256	
fir_xcorrf_hifi4.o raw corrf hifi4.o	252 501		fir_xcorrf NatureDSP Signal 256		
vec poly4 32x32 hifi4.0	495		vec poly4 32x32		
vec poly8 32x32 hifi4.o	749		vec poly8 32x32		
vec poly4f hifi4.o	800		vec poly4f		
vec_poly8f_hifi4.o	773		vec_poly8f		
			latr16x16_alloc, latr16x16_init,		
latr16x16_hifi4.o	5169	36	_*		
latr32x16_1_proc_hifi4.o	90		NatureDSP_Signal_431		
latr32x16_2_proc_hifi4.o latr32x16_3_proc_hifi4.o	90		NatureDSP_Signal_432 NatureDSP_Signal_433		
latr32x16_3_proc_nifi4.0	174		NatureDSP_Signal_433 NatureDSP_Signal_434		
latr32x16 5 proc hifi4.o	220		NatureDSP Signal 435		
latr32x16_6_proc_hifi4.o	218		NatureDSP_Signal_436		
latr32x16 7 proc hifi4.o	570	<u></u>	NatureDSP_Signal_437		
latr32x16_8_proc_hifi4.o	654		NatureDSP_Signal_438		
			latr32x16 alloc, latr32x16 init,	NatureDSP_Signal_431, NatureDSP_Signal_432, NatureDSP_Signal_433, NatureDSP_Signal_434, NatureDSP_Signal_435, NatureDSP_Signal_436, NatureDSP_Signal_437, NatureDSP_Signal_438,	
latr32x16_hifi4.o	811		latr32x16_process	NatureDSP_Signal_439	
latr32x16_X_proc_hifi4.o	751		NatureDSP_Signal_439		
latr32x32 1 proc hifi4.o	213		NatureDSP_Signal_440		
latr32x32 2 proc_hifi4.o	122		NatureDSP_Signal_441		
latr32x32_3_proc_hifi4.o	159		NatureDSP_Signal_442		
latr32x32_4_proc_hifi4.o	402		NatureDSP_Signal_443		
latr32x32_5_proc_hifi4.o latr32x32_6_proc_hifi4.o	236 568		NatureDSP_Signal_444 NatureDSP_Signal_445		
latr32x32 7 proc hifi4.0	751	1	NatureDSP_Signal_445 NatureDSP Signal 446		
latr32x32 / proc hifi4.0	321		NatureDSP Signal 447		
			latr32x32 alloc, latr32x32 init,	NatureDSP Signal 440,	
latr32x32_hifi4.o	210	36	latr32x32_process	NatureDSP_Signal_441,	

	Code size	Data size	Symbols		
Object file			Global	Referenced	
				NatureDSP_Signal_442, NatureDSP Signal 443,	
				NatureDSP_Signal_444,	
				NatureDSP_Signal_445,	
				NatureDSP_Signal_446,	
				NatureDSP_Signal_447, NatureDSP Signal 448	
latr32x32_X_proc_hifi4.o	308		NatureDSP_Signal_448	Nacurebbi_bignar_440	
bqciirf_dfl_hifi4.o	176		bqciirf_dfl_alloc, bqciirf_dfl_init		
bqciirf_dfl_process_hifi4.o	1671		bqciirf_dfl		
bqriirf_df1_hifi4.o bqriirf_df1_process_hifi4.o	255 1660		bqriirf_df1_alloc, bqriirf_df1_init bqriirf_df1		
bgriirf df1 process hill4.0	248		bqriirf df2t alloc, bqriirf df2t init		
bqriirf df2t process hifi4.o	1925		bgriirf df2t		
bqriirf_df2_hifi4.o	248		bqriirf_df2_alloc, bqriirf_df2_init		
bqriirf_df2_process_hifi4.o	1360		bqriirf_df2		
latrf1 hifi4.o latrf2 hifi4.o	133 298		NatureDSP_Signal_224		
latrf3 hifi4.o	484		NatureDSP_Signal_225 NatureDSP_Signal_226		
latrf4 hifi4.o	329		NatureDSP Signal 227		
latrf5_hifi4.o	605		NatureDSP_Signal_228		
latrf6_hifi4.o	496		NatureDSP_Signal_229		
latrf7_hifi4.o	880		NatureDSP_Signal_230		
latrf8_hifi4.o	920		NatureDSP_Signal_231		
latrfX_hifi4.o	984		NatureDSP_Signal_232	NatureDSP Signal 224,	
				NatureDSP Signal 225,	
				NatureDSP_Signal_226,	
				NatureDSP_Signal_227,	
				NatureDSP_Signal_228,	
				NatureDSP_Signal_229, NatureDSP Signal 230,	
				NatureDSP_Signal_230,	
latrf hifi4.o	168	32	latrf alloc, latrf init, latrf process	NatureDSP Signal 232	
scl_alog10_32x32_hifi4.o	117		scl_antilog10_32x32	NatureDSP_Signal_202	
scl_alog2_32x32_hifi4.o	97		scl_antilog2_32x32	NatureDSP_Signal_202	
scl_alogn_32x32_hifi4.o	117		scl_antilogn_32x32	NatureDSP_Signal_202	
scl_atan_32x32_hifi4.o scl_cosine 32x32_hifi4.o	150 115		scl_atan32x32 scl_cosine32x32	NatureDSP_Signal_012 NatureDSP Signal 009	
scl_cosine_32x32_n1114.0	247		scl_cosine32x32	NatureDSF_Signal_009	
scl divide32x32 hifi4.o	146		scl divide32x32		
scl_divide64x32_hifi4.o	455		scl_divide64x32		
scl_log10_32x32_hifi4.o	157		scl_log10_32x32	NatureDSP_Signal_011	
scl_log2_32x32_hifi4.o	134		scl_log2_32x32	NatureDSP_Signal_011	
scl_logn_32x32_hifi4.o scl_recip16x16_hifi4.o	157 268		scl_logn_32x32 scl_recip16x16	NatureDSP_Signal_011	
scl_recip16x16_HII14.0	161		scl_recipioxio		
scl rsqrt16x16 hifi4.o	173		scl rsqrt16x16		
scl_rsqrt32x32_hifi4.o	218		scl_rsqrt32x32		
scl_sigmoid32x32_hifi4.o	194	20	scl_sigmoid32x32		
scl_sine_32x32_hifi4.o	115		scl_sine32x32	NatureDSP_Signal_009	
scl_sqrt16x16_hifi4.o scl sqrt64x32 hifi4.o	142 152		scl_sqrt16x16 scl_sqrt64x32	NatureDSP_Signal_386 NatureDSP_Signal_010	
scl sqrt 32x32 hifi4.0	123		scl_sqrt32x32	NatureDSP Signal 010	
scl tanh32x32 hifi4.o	178	20	scl tanh32x32	nacareser_ergnar_ere	
				NatureDSP_Signal_008,	
scl_tan_32x32_hifi4.o	299		scl_tan32x32	NatureDSP_Signal_009	
vec_alog10_32x32_hifi4.o	589		vec_antilog10_32x32	NatureDSP_Signal_202	
vec_alog2_32x32_hifi4.o	693 589		vec_antilog2_32x32 vec_antilogn_32x32	NatureDSP_Signal_202	
vec_alogn_32x32_hifi4.o vec atan 32x32 hifi4.o	841		vec_antilogn_32x32 vec_atan32x32	NatureDSP_Signal_202 NatureDSP Signal 012	
vec cosine 32x32 fast hifi4.o	429		vec_atam32x32 vec_cosine32x32 fast	NatureDSP Signal 009	
vec_cosine_32x32_hifi4.o	451		vec_cosine32x32	NatureDSP_Signal_009	
vec_divide16x16_fast_hifi4.o	968	8	vec_divide16x16_fast		
vec_divide16x16_hifi4.o	1066	8	vec_divide16x16		
vec_divide32x32_fast_hifi4.o	713		vec_divide32x32_fast		
vec_divide32x32_hifi4.o	1092		vec_divide64x32i		
vec_divide64x32i_hifi4.o vec_log10_32x32_hifi4.o	1482 922	4	vec_divide64x32i vec_log10_32x32	NatureDSP Signal 011	
vec_log10_32x32_n1114.0	818	4	vec_log10_32x32 vec_log2_32x32	NatureDSP_Signal_011	
vec logn 32x32 hifi4.0	922	4	vec_10g2_32x32	NatureDSP Signal 011	
vec_recip16x16_hifi4.o	1101	8	vec_recip16x16		
vec_recip32x32_hifi4.o	826	8	vec_recip32x32		
vec_rsqrt16x16_hifi4.o	1399		vec_rsqrt16x16		
vec rsqrt32x32 hifi4.o	1378	I	vec_rsqrt32x32	1	

	0.4.	Dete	Symbols	
Object file	Code size	Data size	Global	Referenced
vec_sigmoid32x32_hifi4.o	902	20	vec_sigmoid32x32	
vec_sine_32x32_fast_hifi4.o	423		vec_sine32x32_fast	NatureDSP_Signal_009
vec_sine_32x32_hifi4.o	544		vec_sine32x32	NatureDSP_Signal_009
vec_softmax32x32_hifi4.o	789	20	vec_softmax32x32	
vec_sqrt16x16_hifi4.o	985		vec_sqrt16x16	NatureDSP_Signal_386
vec_sqrt64x32_hifi4.o	954		vec_sqrt64x32	NatureDSP_Signal_010
vec_sqrt_32x32_fast_hifi4.o	734 996		vec_sqrt32x32_fast	NatureDSP_Signal_010
vec_sqrt_32x32_hifi4.o	831	20	<pre>vec_sqrt32x32 vec tanh32x32</pre>	NatureDSP_Signal_010
Vec_talli132x32_111114.0	031	20	Vec_talli132x32	NatureDSP Signal 008,
vec tan 32x32 hifi4.o	1256		vec tan32x32	NatureDSP Signal 009
	267		_	_reent_ptr, NatureDSP_Signal_206, NatureDSP_Signal_207, NatureDSP_Signal_212, NatureDSP_Signal_241,
scl_antilog10f_hifi4.o	367		scl_antilog10f	NatureDSP_Signal_244 _reent_ptr, NatureDSP_Signal_208, NatureDSP_Signal_212, NatureDSP_Signal_241,
scl antilog2f hifi4.o	347		scl antilog2f	NatureDSP_Signal_241, NatureDSP_Signal_244
scl antilognf hifi4.o	350		scl antilognf	reent_ptr, NatureDSP_Signal_212, NatureDSP_Signal_213, NatureDSP_Signal_241, NatureDSP_Signal_244
SCI_antiiogni_niii4.0	330		SCI_allClToglil	reent_ptr, NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246,
scl_atan2f_hifi4.o	341		scl_atan2f	NatureDSP_Signal_249
scl_atanf_hifi4.o	220		scl_atanf	reent_ptr, NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246 _reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251,
				NatureDSP_Signal_252,
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scl_cosinef_hifi4.o	298	24	scl_cosinef	NatureDSP_Signal_268
scl_float2int_hifi4.o	31 25		scl_float2int	
scl_int2float_hifi4.o	25		scl_int2float	
scl_log10f_hifi4.o	552		scl_log10f	reent ptr, NatureDSP_Signal_203, NatureDSP_Signal_205, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258 reent ptr,
scl_log2f_hifi4.o	549		scl_log2f	NatureDSP_Signal_234, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258reent_ptr, NatureDSP_Signal_233,
scl_lognf_hifi4.o	558		scl_lognf	NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258, NatureDSP_Signal_260reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_251, NatureDSP_Signal_252,
				NatureDSP_Signal_252, NatureDSP Signal 253,
scl_sinef_hifi4.o	299	24	scl_sinef	NatureDSP_Signal_268
scl tanf hifi4.o	367	24	scl tanf	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_254,

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Object file	size		Global	Referenced	
				NatureDSP_Signal_255,	
				NatureDSP_Signal_268 reent ptr,	
				NatureDSP Signal 479,	
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	207			NatureDSP_Signal_485,	
scl_tanhf_hifi4.o	387 28		scl_tanhf scl_reluf	NatureDSP_Signal_512	
scl_relu1_niii4.0	17		scl_relu1		
scl recip64x64 hifi4.o	314		scl recip64x64		
scl_divide64x64_hifi4.o	388		scl_divide64x64		
scl_sqrt32x16_hifi4.o	150		scl_sqrt32x16	NatureDSP_Signal_386	
scl_sigmoidf_hifi4.o	290	36	scl_sigmoidf	NatureDSP Signal 206,	
				NatureDSP Signal 207,	
vec alog10f hifi4.o	796		vec antilog10f	NatureDSP Signal 212	
				NatureDSP_Signal_208,	
	000			NatureDSP_Signal_212,	
vec_alog2f_hifi4.o	829		vec_antilog2f	NatureDSP_Signal_241 NatureDSP_Signal_212,	
				NatureDSP Signal 213,	
vec_alognf_hifi4.o	831		vec_antilognf	NatureDSP_Signal_241	
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				NatureDSP_Signal_210, NatureDSP_Signal_241,	
				NatureDSP Signal 244,	
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vec_atan2f_hifi4.o	2215		vec_atan2f	NatureDSP_Signal_249	
				NatureDSP_Signal_209,	
				NatureDSP_Signal_210, NatureDSP Signal 244,	
vec atanf hifi4.o	1818		vec atanf	NatureDSP Signal 246	
				NatureDSP_Signal_241,	
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				NatureDSP_Signal_252, NatureDSP Signal 253,	
vec cosinef hifi4.o	1764	24	vec cosinef	NatureDSP Signal 268	
vec_float2int_hifi4.o	291		vec_float2int		
vec_int2float_hifi4.o	331		vec_int2float		
				NatureDSP_Signal_203,	
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				NatureDSP Signal 243,	
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vec_log10f_hifi4.o	1646	16	vec_log10f	NatureDSP_Signal_258	
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vec_log2f_hifi4.o	1596	16	vec_log2f	NatureDSP_Signal_258	
				NatureDSP_Signal_233, NatureDSP_Signal_241,	
				NatureDSP_Signal_241,	
				NatureDSP_Signal_244,	
	1507	1.0	, ,	NatureDSP_Signal_258,	
vec_lognf_hifi4.o	1587	16	vec_lognf	NatureDSP_Signal_260 NatureDSP_Signal_241,	
				NatureDSP_Signal_241,	
				NatureDSP_Signal_252,	
	1000			NatureDSP_Signal_253,	
vec_sinef_hifi4.o	1802	24	vec_sinef	NatureDSP_Signal_268 NatureDSP_Signal_241,	
				NatureDSP_Signal_241, NatureDSP_Signal_254,	
				NatureDSP_Signal_255,	
vec_tanf_hifi4.o	2416	24	vec_tanf	NatureDSP_Signal_268	
				NatureDSP_Signal_479, NatureDSP_Signal_480,	
				NatureDSP_Signal_480, NatureDSP Signal 485,	
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vec_tanhf_hifi4.o	2492		vec_tanhf	scl_tanhf	
vec_reluf_hifi4.o	180		vec_reluf		
vec_relu32x32_hifi4.o	195		vec_relu32x32	NatureDSP Signal 243,	
vec softmaxf hifi4.o	838		vec softmaxf	vec antilognf	
vec_recip64x64_hifi4.o	1855		vec_recip64x64	5	
vec_divide64x64_hifi4.o	2618		vec_divide64x64		
vec sgrt32x16 hifi4.o	975	1	vec sqrt32x16	NatureDSP Signal 386,	

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NatureDBP Signal (50) NatureDBP Signal (52) Natu	,				scl_sqrt32x16	
Vest pow 12x12 hif44.0 3364 Vest pow 12x22 Nature055_Signal_452 Nature055_Signal_	vec_sigmoidf_hifi4.o	1967	36	vec_sigmoidf		
Sections 32A2 hifid.o						
NatureOSF Gignal 1921 NatureOSF Gignal 1922 NatureOSF 1923	vec_pow_32x32_hifi4.o	3364		vec_pow_32x32		
mex_inv2x2f_hfi4.0	scl pow 32x32 hifi4.o	570		NatureDSP Signal 452		
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matk_gjelim2x2_32x32_hifi4.0		1076				
CHING Glaim CHING CHING GLAIM CHING CHING GLAIM CHING CHIN	cmtx_gjelimi0x10_32x32_n1f14.	3033				
CMIX. g elim3x3 32x32 hif14.0				cmtx_gjelim2x2_32x32,		
CHICK_glelin3x3_32x32_hif14.0	cmtx_gjelim2x2_32x32_hifi4.o	1041				
cmtx gpelim4x4 32x32 piff4.0 1513 cmtx gpelim4x4 32x32 petScratchSize cmtx gpelim4x6 32x32 piff4.0 1996 cmtx gpelim6x6 32x32 piff4.0 1996 cmtx gpelim6x6 32x32 piff4.0 1996 cmtx gpelim6x6 32x32 petScratchSize cmtx gpelim6x8 32x32 piff4.0 1727 cmtx gpelim6x8 32x32 petScratchSize cmtx inv10x10 32x32 hiff4.0 1727 cmtx inv2x2 32x32 piff4.0 1207 cmtx inv2x2 32x32 piff4.0 1207 cmtx inv2x2 32x32 piff4.0 1309 cmtx inv3x3 32x32 piff4.0 1309 cmtx inv3x3 32x32 piff4.0 1511 cmtx inv4x4 32x32 piff4.0 1511 cmtx inv4x4 32x32 piff4.0 1511 cmtx inv4x4 32x32 piff4.0 1596 cmtx inv4x4 32x32 piff4.0 1687 cmtx inv6x6 32x32 piff4.0 1687 cmtx inv6x6 32x32 piff4.0 1687 mtx gpelim6x2 32x32 piff4.0 1876 cmtx inv6x6 32x32 piff4.0 1876 mtx gpelim6x10 32x32 piff4.0 1876 cmtx inv6x6 32x32	cmtx gjelim3x3 32x32 hifi4.o	1232				
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cmtx gjelim6x6_22x32_hifi4.0	cmtx_gjelim4x4_32x32_hifi4.o	1513				
cmtx glelim8x8 32x32 hifi4.0	cmtx_gjelim6x6_32x32 hifi4.o	1996				
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cmtx inv10x10 32x32 hif14.0 1727 cmtx inv10x10 32x32 getScratchSise cmtx inv2x2 32x32, cmtx inv2x2 32x32 getScratchSise cmtx inv2x2 32x32 petScratchSise cmtx inv2x2 32x32 petScratchSize mtx gjelim10x10 32x32 petScratchSize mtx gjelim3x3 32x32 petScratchSize mtx inv3x3 32x32 pet	cmtx_gjelim8x8_32x32_hifi4.o	2678				
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Cutx inv4x4 32x32 hifi4.0 1449	cmtx_inv3x3_32x32_hifi4.o	1309				
Cuttx inv6x6 32x32 hifi4.0		1511				
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mtx_inv8x8_32x32 hifi4.o 1369 mtx_inv8x8_32x32, mtx_inv8x8_32x32 getScratchSize mtx_mpy16x16_fast, mtx_mpy16x16_fast, mtx_mpy16x16_fast, mtx_mpy16x16_fast, mtx_mpy16x16_fast, mtx_mpy16x16_getScratchSize mtx_mpy16x16_getScratchSize mtx_mpy32x32_fast_hifi4.o 480 mtx_mpy32x32_fast, mtx_mpy32x32_fast, mtx_mpy32x32_fast getScratchSize mtx_mpy32x32_hifi4.o 2648 mtx_mpy32x32, mtx_mpy32x32_getScratchSize mtx_mpy8x16_fast_hifi4.o 476 mtx_mpy8x16_fast_getScratchSize mtx_mpy8x16_hifi4.o 10663 mtx_mpy8x16, mtx_mpy8x16_getScratchSize mtx_mpy8x8_fast_hifi4.o 637 mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_fast_getScratchSize						
mtx inv8x8_32x32_hifi4.o 1369 mtx_inv8x8_32x32_getScratchSize mtx mpy16x16_fast hifi4.o 473 mtx_mpy16x16_fast, mtx mpy16x16_fast getScratchSize mtx mpy16x16_hifi4.o 2146 mtx_mpy16x16, mtx_mpy16x16_getScratchSize mtx mpy32x32_fast hifi4.o 480 mtx_mpy32x32_fast, mtx_mpy32x32_fast getScratchSize mtx mpy32x32_hifi4.o 2648 mtx_mpy32x32, mtx_mpy32x32_getScratchSize mtx mpy8x16_fast hifi4.o 476 mtx_mpy8x16_fast, mtx_mpy8x16_getScratchSize mtx_mpy8x16_hifi4.o 10663 mtx_mpy8x16, mtx_mpy8x16_getScratchSize mtx_mpy8x8_fast hifi4.o 637 mtx_mpy8x8_fast getScratchSize mtx_mpy8x8_fast getScratchSize mtx_mpy8x8_getScratchSize mtx_mpy8x8_fast getScratchSize mtx_mpy8x8_getScratchSize mtx_mpy8x8_fast getScratchSize mtx_mpy8x8_getScratchSize	mtx_inv6x6_32x32_hifi4.o	1247		mtx_inv6x6_32x32_getScratchSize		
mtx mpy16x16 fast hifi4.0 473 mtx mpy16x16 fast getScratchSize mtx mpy16x16 hifi4.0 2146 mtx mpy16x16, mtx mpy16x16 getScratchSize mtx mpy32x32 fast, mtx mpy32x32 fast hifi4.0 480 mtx mpy32x32 fast getScratchSize mtx mpy32x32 hifi4.0 2648 mtx mpy32x32, mtx mpy32x32 getScratchSize mtx mpy8x16 fast hifi4.0 476 mtx mpy8x16 fast getScratchSize mtx mpy8x16 hifi4.0 10663 mtx mpy8x16, mtx mpy8x16 getScratchSize mtx mpy8x8 fast hifi4.0 637 mtx mpy8x8 fast getScratchSize mtx mpy8x8 fast py8x8 fast hifi4.0 10732 mtx mpy8x8, mtx mpy8x8 getScratchSize mtx mpy8x8 fast, mtx mpy8x8 getScratchSize mtx mpy8x8, mtx mpy8x8 getScratchSize	mtx_inv8x8_32x32_hifi4.o	1369		mtx_inv8x8_32x32_getScratchSize		
mtx mpy16x16 hifi4.0 2146 mtx mpy16x16, mtx mpy16x16 getScratchSize mtx mpy32x32 fast hifi4.0 480 mtx mpy32x32 fast getScratchSize mtx mpy32x32 hifi4.0 2648 mtx mpy32x32, mtx mpy32x32 getScratchSize mtx mpy8x16 fast hifi4.0 476 mtx mpy8x16 fast getScratchSize mtx mpy8x16 hifi4.0 10663 mtx mpy8x16 getScratchSize mtx mpy8x8 fast hifi4.0 637 mtx mpy8x8 fast getScratchSize mtx mpy8x8 fast getScratchSize mtx mtx mpy8x8 getScratchSize		470	· · · · · · · · · · · · · · · · · · ·			
mtx mpy32x32 fast hifi4.o 480 mtx mpy32x32 fast getScratchSize mtx mpy32x32 hifi4.o 2648 mtx mpy32x32, mtx mpy32x32 getScratchSize mtx mpy8x16 fast hifi4.o 476 mtx mpy8x16 fast, mtx mpy8x16 fast getScratchSize mtx mpy8x16 hifi4.o 10663 mtx mpy8x16, mtx mpy8x16 getScratchSize mtx mpy8x8 fast hifi4.o 637 mtx mpy8x8 fast getScratchSize mtx mpy8x8 hifi4.o 10732 mtx mpy8x8, mtx mpy8x8 getScratchSize mtx mpy16x16 fast, mtx mpy16x16 fast,						
mtx mpy32x32 hifi4.o 2648 mtx mpy32x32, mtx mpy32x32_getScratchSize mtx mpy8x16 fast hifi4.o 476 mtx_mpy8x16 fast getScratchSize mtx mpy8x16 hifi4.o 10663 mtx_mpy8x16, mtx_mpy8x16 getScratchSize mtx_mpy8x8_fast, mtx_mpy8x8_fast, mtx_mpy8x8_fast getScratchSize mtx_mpy8x8_fast getScratchSize mtx_mpy8x8_hifi4.o 10732 mtx_mpy8x8_mtx_mpy8x8_getScratchSize mtx_mpy16x16_fast, mtx_mpy16x16_fast,				mtx_mpy32x32_fast,		
mtx mpy8x16 fast hifi4.o 476 mtx mpy8x16 fast getScratchSize mtx mpy8x16 hifi4.o 10663 mtx mpy8x16, mtx mpy8x16 getScratchSize mtx mpy8x8 fast hifi4.o 637 mtx mpy8x8 fast getScratchSize mtx mpy8x8 hifi4.o 10732 mtx mpy8x8, mtx mpy8x8 getScratchSize mtx mpy8x8 fast, mtx mpy8x8 fast getScratchSize mtx mpy8x8, mtx mpy8x8 getScratchSize				mtx_mpy32x32_fast_getScratchSize		
mtx mpy8x16 fast hifi4.o 476 mtx mpy8x16 fast getScratchSize mtx mpy8x16 hifi4.o 10663 mtx mpy8x16, mtx mpy8x16 getScratchSize mtx mpy8x8 fast hifi4.o 637 mtx mpy8x8 fast getScratchSize mtx mpy8x8 fast hifi4.o 10732 mtx mpy8x8, mtx mpy8x8 getScratchSize mtx mpy16x16 fast, mtx mpy16x16 fast,	mux_mpy32x32_hifi4.0	2648				
mtx_mpy8x8_fast_hifi4.o 637 mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_hifi4.o 10732 mtx_mpy8x8, mtx_mpy8x8_getScratchSize mtx_mpy16x16_fast, mtx_mpyt16x16_fast,				mtx_mpy8x16_fast_getScratchSize		
mtx_mpy8x8_fast_hifi4.o 637 mtx_mpy8x8_fast_getScratchSize mtx_mpy8x8_hifi4.o 10732 mtx_mpy8x8, mtx_mpy8x8_getScratchSize mtx_mpy16x16_fast, mtx_mpyt16x16_fast,	mtx_mpy8x16_hifi4.o	10663	· · · · · ·			
mtx_mpy8x8_hifi4.o 10732 mtx_mpy8x8, mtx_mpy8x8_getScratchSize mtx_mpy116x16_fast, mtx_mpyt16x16_fast,	mtx mpv8x8 fast hifi4.o	637				
				mtx_mpy8x8, mtx_mpy8x8_getScratchSize		
	mtx mpyt16x16 fast hifi4.o	617		mtx_mpyt16x16_fast, mtx_mpyt16x16_fast qetScratchSize		

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Object file	Code size	size	Global	Referenced
mtx mpyt16x16 hifi4.o	1813		mtx mpyt16x16, mtx mpyt16x16 getScratchSize	
			mtx_mpyt32x32_fast,	
mtx_mpyt32x32_fast_hifi4.o	490		mtx_mpyt32x32_fast_getScratchSize	
mtx_mpyt32x32_hifi4.o	1144		mtx_mpyt32x32, mtx_mpyt32x32_getScratchSize	
mty mpyt0y16 fact hifi/ o	628		mtx_mpyt8x16_fast,	
mtx_mpyt8x16_fast_hifi4.o	9095		mtx mpyt8x16 fast getScratchSize mtx mpyt8x16, mtx mpyt8x16 getScratchSize	
mex_mpycoxio_niiii.o	3033		mtx mpyt8x8 fast,	
mtx mpyt8x8 fast hifi4.o	525		mtx mpyt8x8 fast getScratchSize	
mtx_mpyt8x8_hifi4.o	11813		mtx_mpyt8x8, mtx_mpyt8x8_getScratchSize	
mtx_transpose16x16_fast_hifi4				
.0	514		mtx_transpose16x16_fast	
mtx_transpose16x16_hifi4.o	791		mtx_transpose16x16	
mtx_transpose32x32_fast_hifi4	150		mtx transpose32x32 fast	
mtx transpose32x32 hifi4.o	244		mtx transpose32x32_rast	
mtx transpose8x8 fast hifi4.o	330		mtx transpose8x8 fast	
mtx transpose8x8 hifi4.o	72		mtx transpose8x8	
mtx transposef fast hifi4.o	23		mtx transposef fast	mtx transpose32x32 fast
mtx_transposef_hifi4.o	23		mtx_transposef	mtx_transpose32x32
mtx_vecmpy16x16_fast_hifi4.o	555		mtx_vecmpy16x16_fast	
mtx_vecmpy16x16_hifi4.o	1236		mtx_vecmpy16x16	
mtx_vecmpy32x32_fast_hifi4.o	338		mtx_vecmpy32x32_fast	
mtx_vecmpy32x32_hifi4.o	534		mtx_vecmpy32x32	
mtx_vecmpy8x16_fast_hifi4.o	1198		mtx_vecmpy8x16_fast	
mtx_vecmpy8x16_hifi4.o	1261 1228		mtx_vecmpy8x16 mtx_vecmpy8x8_fast	
mtx vecmpy8x8 hifi4.0	2520		mtx vecmpy8x8	
mtx mpyf fast hifi4.o	372		mtx mpyf fast, mtx mpyf fast getScratchSize	
mtx mpyf hifi4.o	1288		mtx mpyf rase, mex mpyf rase getseratehorze	
	1200		mtx mpytf fast,	
mtx mpytf fast hifi4.o	524		mtx mpytf fast getScratchSize	
mtx_mpytf_hifi4.o	2677		mtx_mpytf, mtx_mpytf_getScratchSize	
mtx_vecmpyf_fast_hifi4.o	296		mtx_vecmpyf_fast	
mtx_vecmpyf_hifi4.o	946		mtx_vecmpyf	
scl_bexp16_hifi4.o	50		scl_bexp16	
scl_bexp32_hifi4.o	44		scl_bexp32	
vec_add16x16_fast_hifi4.o	151 514		vec_add16x16_fast vec_add16x16	
vec_add16x16_H1114.0	118		vec_add16x16	
vec add32x32 hifi4.o	151		vec_add32x32 vec_add32x32	
vec bexp16 fast hifi4.o	281		vec bexp16 fast	
vec bexp16 hifi4.o	186		vec bexp16	
vec_bexp32_fast_hifi4.o	269		vec_bexp32_fast	
vec_bexp32_hifi4.o	192		vec_bexp32	
vec_dot16x16_fast_hifi4.o	153		vec_dot16x16_fast	
vec_dot16x16_hifi4.o	249		vec_dot16x16	
vec_dot32x16_fast_hifi4.o	159		vec_dot32x16_fast	
vec_dot32x16_hifi4.o	236	8	vec_dot32x16	
vec_dot32x32_fast_hifi4.o	122 344		vec_dot32x32_fast	+
vec_dot32x32_hifi4.o vec_dot64x32_fast_hifi4.o	200		vec_dot32x32 vec_dot64x32_fast	+
vec_dot64x32_fast_fiff4.0	314		vec_dot64x32_last	
vec dot64x64i fast hifi4.o	125		vec dot64x64i fast	<u> </u>
vec dot64x64i hifi4.o	168		vec dot64x64i	
vec dot64x64 fast hifi4.o	157		vec dot64x64 fast	
vec_dot64x64_hifi4.o	248		vec_dot64x64	
vec_max_16x16_fast_hifi4.o	289		vec_max16x16_fast	
vec_max_16x16_hifi4.o	287		vec_max16x16	
vec_max_32x32_fast_hifi4.o	194		vec_max32x32_fast	
vec_max_32x32_hifi4.o	206		vec_max32x32	
vec_min_16x16_fast_hifi4.o	239		vec_min16x16_fast	+
vec_min_16x16_hifi4.o vec min 32x32 fast hifi4.o	287		vec_min16x16	+
vec_min_32x32_fast_hifi4.o	167 206		vec min32x32 fast vec min32x32	+
vec power16x16 fast hifi4.o	124		vec power16x16 fast	
vec power16x16 hifi4.0	185		vec_power16x16_tast	
vec_power10x10_h1114.0	104		vec power10x10 vec power32x32 fast	<u> </u>
vec power32x32 hifi4.o	178	1	vec power32x32	
vec_scale16x16_fast_hifi4.o	119		vec_scale16x16_fast	
vec_scale16x16_hifi4.o	812		vec_scale16x16	
vec_scale32x32_fast_hifi4.o	114		vec_scale32x32_fast	
vec_scale32x32_hifi4.o	287		vec_scale32x32	
vec_shift16x16_fast_hifi4.o	194	<u> </u>	vec_shift16x16_fast	

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Object file	size	size	Global	Referenced
vec shift16x16 hifi4.o	1400		vec shift16x16	
vec_shift32x32_fast_hifi4.o	124		vec_shift32x32_fast	
vec_shift32x32_hifi4.o	242		vec_shift32x32	
scl_bexpf_hifi4.o	102		scl_bexpf	
vec_addf_hifi4.o	329		vec_addf	
vec_bexpf_hifi4.o	276		vec_bexpf	
vec_dotf_hifi4.o	278 153	4	vec_dotf	
vec_maxi_nifi4.0	165	4	vec_maxi vec minf	
vec powerf hifi4.o	533	-	vec powerf	
vec scalef hifi4.o	544		vec scalef	
vec_scale_sf_hifi4.o	314		vec_scale_sf	
vec_shiftf_hifi4.o	442		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 NatureDSP Signal 211, NatureDSP Signal 212,	
			NatureDSP Signal 213, NatureDSP Signal 212,	
expf tbl.o		80	NatureDSP Signal 582	
			NatureDSP_Signal_243, NatureDSP_Signal_244,	
inff_tbl.o		12	NatureDSP Signal 245	
			NatureDSP_Signal_222, NatureDSP_Signal_223,	
inv2pif_tbl.o		16	NatureDSP_Signal_268	
log10f tbl.o		44	NatureDSP_Signal_203, NatureDSP_Signal_204, NatureDSP_Signal_205	
log2f tbl.o		44	NatureDSP_Signal_205 NatureDSP Signal 234	
lognf tbl.o		36	NatureDSP Signal 233, NatureDSP Signal 260	
10911_001.0		30	NatureDSP Signal 235, NatureDSP Signal 236,	
nan tbl.o		32	NatureDSP Signal 237, NatureDSP Signal 238	
			NatureDSP_Signal_239, NatureDSP_Signal_240,	
nanf_tbl.o		16	NatureDSP_Signal_241, NatureDSP_Signal_242	
		1.0	NatureDSP_Signal_246, NatureDSP_Signal_247,	
pif_tbl.o polyrsqrtq23 tbl.o	_	16 20	NatureDSP_Signal_248, NatureDSP_Signal_249 NatureDSP_Signal_386	
scl atan table.o		524		
scl atan table16.0		136	NatureDSP Signal 013	
scl sine table16.0		1028	NatureDSP Signal 257	
scl_sine_table32.o		2056	NatureDSP_Signal_009	
scl_sqrt_table.o		1024	NatureDSP_Signal_010	
			NatureDSP_Signal_250, NatureDSP_Signal_251,	
sinf_tbl.o		52	NatureDSP_Signal_252, NatureDSP_Signal_253	
sqrt2f_tbl.o tanf tbl.o	_	8 36	NatureDSP Signal 258, NatureDSP Signal 259 NatureDSP Signal 254, NatureDSP Signal 255	
tanhf tbl.o		20	NatureDSP_Signal_480, NatureDSP_Signal_512	
cami_coi.o		20	NatureDSP Signal 479, NatureDSP Signal 481,	
pow2f tbl.o		112		
vec_alog_table.o		20	NatureDSP_Signal_202	
vec_log_table.o		1024		
vec_recip_table.o		516		
vec_pow_32x32_table.o		156	NatureDSP_Signal_450, NatureDSP_Signal_451	
11220222 bifi4 -	2548	68		memset, NatureDSP_Signal_806, NatureDSP_Signal_807, NatureDSP_Signal_809,
logmel32x32_hifi4.o	2348	00	logme132x32_alloc, logme132x32_init	vec_recip32x32 memset,
				memset, NatureDSP_Signal_806, NatureDSP_Signal_807, scl_antilog10f, scl_antilog2f, scl_int2float, scl_log10f, scl_log2f,
logmelf_hifi4.o	1685		logmelf_alloc, logmelf_init	vec_recip32x32
				logme132x32_alloc, logme132x32_init, memset, mtx_vecmpy32x32, mtx_vecmpy32x32_fast, NatureDSP Signal 810,
mfcc32x32_hifi4.o	789		mfcc32x32_alloc, mfcc32x32_init	NatureDSP_Signal_811
				<pre>logmelf_alloc, logmelf_init, memset, mtx_vecmpyf, mtx vecmpyf fast,</pre>
mfccf_hifi4.o	734		mfccf_alloc, mfccf_init	NatureDSP_Signal_812,
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Object file			Global	Referenced	
				NatureDSP_Signal_813	
dct_16_32.o		168			
dct_16_64.o		312	dct2_16_64 dct2_32_32		
dct_32_32.o dct 32_64.o		320 792		+	
dct4 16 128.0		568	dct4 16 128, mdct 16 128		
dct4_16_256.o		1112			
dct4_16_32.o		160	dct4_16_32, mdct_16_32		
dct4_16_512.o		2200			
dct4_16_64.o		296 1108			
dct4_32_128.0 dct4_32_256.0		2196	dct4 32 128, mdct 32 128 dct4 32 256, mdct 32 256		
dct4 32 32.0	-	292			
dct4 32 512.o		4372	dct4 32 512, mdct 32 512		
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_twd16_16_tbl.o		144	cfft16_16, cifft16_16, NatureDSP_Signal_759, NatureDSP_Signal_784		
fft_cplx_twd16_32_tbl.o		192	cfft16_32, cifft16_32, NatureDSP_Signal_753, NatureDSP_Signal_778		
fft_cplx_twd16_64_tbl.o		352	cfft16_64, cifft16_64, NatureDSP_Signal_750, NatureDSP_Signal_775 cfft16_128, cifft16_128,		
fft_cplx_twd16_128_tbl.o		592	NatureDSP_Signal_760, NatureDSP_Signal_785		
fft_cplx_twd16_160_tbl.o		752	NatureDSP Signal 758, NatureDSP Signal 783 cinfft16 192, cnfft16 192,		
fft_cplx_twd16_192_tbl.o		864	NatureDSP Signal 757, NatureDSP Signal 782 cinfft16 240, cnfft16 240,		
fft_cplx_twd16_240_tbl.o		1056			
fft_cplx_twd16_256_tbl.o fft cplx twd16_320 tbl.o		1136 1376	NatureDSP_Signal_754, NatureDSP_Signal_779		
fft cplx twd16 384 tbl.o		1664	cinfft16 384, cnfft16 384		
fft cplx twd16 480 tbl.o		2048	cinfft16 480, cnfft16 480		
fft_cplx_twd16_512_tbl.o		2144	cfft16_512, cifft16_512, NatureDSP_Signal_751, NatureDSP_Signal_776		
fft_cplx_twd16_1024_tbl.o		4224	cfft16_1024, cifft16_1024, NatureDSP_Signal_761, NatureDSP_Signal_786		
fft_cplx_twd16_2048_tbl.o		8304	cfft16_2048, cifft16_2048, NatureDSP Signal 756, NatureDSP Signal 781		
fft_cplx_twd16_4096_tbl.o		16528	cfft16_4096, cifft16_4096, NatureDSP_Signal_752, NatureDSP_Signal_777	No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
fft_real_twd16_32_tbl.o		56	rfft16_32, rifft16_32	NatureDSP_Signal_759, NatureDSP_Signal_784 NatureDSP_Signal_753,	
fft_real_twd16_64_tbl.o		88	rfft16_64, rifft16_64	NatureDSP_Signal_778	
fft_real_twd16_128_tb1.o		152		NatureDSP_Signal_750, NatureDSP_Signal_775	
fft_real_twd16_160_tbl.o fft real_twd16_192_tbl.o	+	576 704	rinfft16_160, rnfft16_160 rinfft16_192, rnfft16_192	+	
fft real twd16 240 tbl.o	+	848	rinfft16 240, rnfft16 240	<u> </u>	
fft real twd16 256 tbl.o		280	rfft16 256, rifft16 256	NatureDSP_Signal_760, NatureDSP Signal 785	
fft_real_twd16_320_tb1.o		344	rinfft16_320, rnfft16_320	NatureDSP_Signal_758, NatureDSP_Signal_783	
fft_real_twd16_384_tbl.o		408	rinfft16_384, rnfft16_384	NatureDSP_Signal_757, NatureDSP_Signal_782	
fft_real_twd16_480_tb1.o		504	rinfft16_480, rnfft16_480	NatureDSP_Signal_755, NatureDSP_Signal_780	
fft_real_twd16_512_tbl.o		536	rfft16_512, rifft16_512	NatureDSP_Signal_754, NatureDSP_Signal_779	
fft_real_twd16_1024_tbl.o		1048	rfft16_1024, rifft16_1024	NatureDSP_Signal_751, NatureDSP_Signal_776	
fft_real_twd16_2048_tbl.o		2072	rfft16_2048, rifft16_2048	NatureDSP_Signal_761, NatureDSP_Signal_786	
fft_real_twd16_4096_tbl.o		4120	rfft16_4096, rifft16_4096	NatureDSP_Signal_756, NatureDSP_Signal_781	
fft_real_twd16_8192_tb1.o		8216	rfft16_8192, rifft16_8192	NatureDSP_Signal_752, NatureDSP_Signal_777	
				NatureDSP_Signal_341, NatureDSP_Signal_345, NatureDSP_Signal_356,	
fft_real_twd32_12_tbl.o		184	rinfft32_12, rnfft32_12	NatureDSP_Signal_363, NatureDSP_Signal_365,	

	0.4.	Dete	Symbols		
Object file	Code size	Data size	Global	Referenced	
-				NatureDSP Signal 377	
				NatureDSP_Signal_282,	
fft_real_twd32_24_tbl.o		72	rinfft32_24, rnfft32_24	NatureDSP_Signal_315 NatureDSP_Signal_345,	
				NatureDSP_Signal_343,	
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				NatureDSP_Signal_345,	
				NatureDSP_Signal_347,	
				NatureDSP_Signal_356,	
				NatureDSP_Signal_365,	
fft anly tyd20 24 thl a		304	cinfft32_24, cnfft32_24, NatureDSP Signal 283, NatureDSP Signal 316	NatureDSP_Signal_373, NatureDSP Signal 377	
fft_cplx_twd32_24_tbl.o		304	NatureDSF_Signal_203, NatureDSF_Signal_310	NatureDSP Signal 341,	
				NatureDSP Signal 348,	
				NatureDSP_Signal_358,	
	1	1		NatureDSP_Signal_368,	
			551.00.00	NatureDSP_Signal_373,	
fft cplx twd32 32 tbl.o		320	cfft32_32, cifft32_32, NatureDSP_Signal_274, NatureDSP Signal 307	NatureDSP_Signal_379,	
TIT_CPIX_twd32_32_tb1.0		320	NatureDSP_Signal_307	NatureDSP_Signal_419 NatureDSP Signal 344,	
				NatureDSP Signal 346,	
				NatureDSP Signal 348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_364,	
			ginff+20 26 gnff+20 26	NatureDSP_Signal_366, NatureDSP Signal 368,	
fft cplx twd32 36 tbl.o		400	cinfft32_36, cnfft32_36, NatureDSP Signal 284, NatureDSP Signal 317	NatureDSP Signal 379	
110_0p1n_0d01_00_001.0		100	nacaregor_orginar_corp nacaregor_orginar_cr	NatureDSP Signal 346,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_366,	
				NatureDSP_Signal_368, NatureDSP Signal 379,	
			cinfft32 48, cnfft32 48,	NatureDSP Signal 418,	
fft cplx twd32 48 tbl.o		496	NatureDSP Signal 285, NatureDSP Signal 318	NatureDSP Signal 421	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_352, NatureDSP Signal 358,	
				NatureDSP Signal 364,	
				NatureDSP_Signal_368,	
			cinfft32_60, cnfft32_60,	NatureDSP_Signal_372,	
fft_cplx_twd32_60_tbl.o		576	NatureDSP_Signal_286, NatureDSP_Signal_319	NatureDSP_Signal_379	
				NatureDSP_Signal_348,	
	1	1		NatureDSP_Signal_349, NatureDSP Signal 358,	
	1	1		NatureDSP Signal 368,	
				NatureDSP_Signal_369,	
				NatureDSP_Signal_379,	
EEF1			cfft32_64, cifft32_64, NatureDSP_Signal_275,	NatureDSP_Signal_419,	
fft_cplx_twd32_64_tbl.o	 	520	NatureDSP_Signal_308	NatureDSP_Signal_422 NatureDSP Signal 341,	
				NatureDSP_Signal_341, NatureDSP Signal 344,	
				NatureDSP Signal 348,	
				NatureDSP_Signal_358,	
	1	1		NatureDSP_Signal_363,	
	1	1	-:	NatureDSP_Signal_364,	
fft cplx twd32 72 tbl.o		720	cinfft32_72, cnfft32_72, NatureDSP Signal 287, NatureDSP Signal 320	NatureDSP_Signal_368, NatureDSP Signal 379	
	†	120	nacarosor_orginar_zor, Nacaresor_orginar_szo	NatureDSP Signal 348,	
				NatureDSP Signal 352,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_372,	
			cinff+22 00 cnff+22 00	NatureDSP_Signal_379,	
fft cplx twd32 80 tbl.o		736	cinfft32_80, cnfft32_80, NatureDSP Signal 762, NatureDSP Signal 787	NatureDSP_Signal_418, NatureDSP Signal 421	
	 	/30	cinfft32 96, cnfft32 96,	NatureDSP_Signal_421 NatureDSP Signal 342,	
fft cplx twd32 96 tbl.o	1	904	NatureDSP Signal 288, NatureDSP Signal 321	NatureDSP Signal 346,	

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Object file	Code size	Data size	Global	Referenced
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				NatureDSP_Signal_358,
				NatureDSP_Signal_361,
				NatureDSP_Signal_366, NatureDSP Signal 368,
				NatureDSP Signal 379,
				NatureDSP Signal 418,
				NatureDSP_Signal_421
				NatureDSP_Signal_348,
				NatureDSP_Signal_350, NatureDSP Signal 352,
				NatureDSP_Signal_352,
				NatureDSP Signal 368,
				NatureDSP_Signal_370,
				NatureDSP_Signal_372,
fft_cplx_twd32_100_tbl.o		896	cinfft32_100, cnfft32_100	NatureDSP_Signal_379
				NatureDSP_Signal_344, NatureDSP Signal 346,
				NatureDSP Signal 348,
				NatureDSP Signal 358,
	1			NatureDSP_Signal_364,
	1			NatureDSP_Signal_366,
fft cplx twd32 108 tbl.o		1000	cinfft32_108, cnfft32_108, NatureDSP Signal 289, NatureDSP Signal 322	NatureDSP_Signal_368, NatureDSP Signal 379
TIT_CPIX_twd32_106_tb1.0		1000	NatureDSF_Signal_209, NatureDSF_Signal_322	NatureDSP Signal 342,
				NatureDSP Signal 344,
				NatureDSP_Signal_348,
	1			NatureDSP_Signal_352,
				NatureDSP_Signal_358,
				NatureDSP_Signal_361, NatureDSP Signal 364,
				NatureDSP Signal 368,
			cinfft32 120, cnfft32 120,	NatureDSP Signal 372,
fft_cplx_twd32_120_tbl.o		1080	NatureDSP_Signal_290, NatureDSP_Signal_323	NatureDSP_Signal_379
				NatureDSP_Signal_341,
				NatureDSP_Signal_348,
				NatureDSP_Signal_358, NatureDSP Signal 368,
				NatureDSP Signal 373,
				NatureDSP_Signal_379,
				NatureDSP_Signal_418,
			cfft32_128, cifft32_128,	NatureDSP_Signal_419,
fft_cplx_twd32_128_tbl.o		920	NatureDSP_Signal_276, NatureDSP_Signal_309	NatureDSP_Signal_421 NatureDSP Signal 344,
				NatureDSP_Signal_344,
				NatureDSP Signal 348,
				NatureDSP_Signal_358,
				NatureDSP_Signal_364,
				NatureDSP_Signal_366,
				NatureDSP_Signal_368, NatureDSP Signal 379,
	1		cinfft32 144, cnfft32 144,	NatureDSP Signal 418,
fft_cplx_twd32_144_tbl.o	<u> </u>	1288	NatureDSP_Signal_291, NatureDSP_Signal_324	NatureDSP_Signal_421
				NatureDSP_Signal_348,
	1			NatureDSP_Signal_350,
				NatureDSP_Signal_358, NatureDSP Signal 368,
				NatureDSP Signal 370,
				NatureDSP_Signal_373,
	1		cinfft32_160, cnfft32_160,	NatureDSP_Signal_379,
fft_cplx_twd32_160_tbl.o		1352	NatureDSP_Signal_769, NatureDSP_Signal_794	NatureDSP_Signal_415
	1			NatureDSP_Signal_344,
				NatureDSP_Signal_348, NatureDSP Signal 352,
				NatureDSP Signal 358,
				NatureDSP_Signal_364,
				NatureDSP_Signal_368,
fft only to 100 (13)		1500	cinfft32_180, cnfft32_180,	NatureDSP_Signal_372,
fft_cplx_twd32_180_tbl.o		1560	NatureDSP_Signal_292, NatureDSP_Signal_325	NatureDSP Signal 379 NatureDSP Signal 345,
	1			NatureDSP_Signal_345, NatureDSP Signal 347,
				NatureDSP Signal 349,
				NatureDSP_Signal_356,
	1			NatureDSP_Signal_365,
	1			NatureDSP_Signal_367,
	1		cinfft32 192, cnfft32 192,	NatureDSP_Signal_369, NatureDSP Signal 377,
fft cplx twd32 192 tbl.o		1664		NatureDSP Signal 417,
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-				NatureDSP Signal 420	
				NatureDSP_Signal_342,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_350,	
				NatureDSP_Signal_352, NatureDSP Signal 358,	
				NatureDSP Signal 361,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_370,	
fft cplx twd32 200 tbl.o		1720	cinfft32 200, cnfft32 200	NatureDSP_Signal_372, NatureDSP Signal 379	
TIT_CPIX_CWG3Z_ZUU_CDI.U		1720	CHILLESZ_200, CHILCSZ_200	NatureDSP Signal 341,	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_363, NatureDSP Signal 364,	
			cinfft32 216, cnfft32 216,	NatureDSP Signal 368,	
fft_cplx_twd32_216_tbl.o		1896	NatureDSP_Signal_294, NatureDSP_Signal_327	NatureDSP_Signal_379	
				NatureDSP_Signal_345,	
				NatureDSP_Signal_347,	
				NatureDSP_Signal_352, NatureDSP Signal 356,	
				NatureDSP_Signal_356,	
				NatureDSP_Signal_367,	
				NatureDSP_Signal_372,	
			dinff+32 240 cnff+32 240	NatureDSP_Signal_377, NatureDSP Signal 417,	
fft cplx twd32 240 tbl.o		2040	cinfft32_240, cnfft32_240, NatureDSP Signal 295, NatureDSP Signal 328	NatureDSP_Signal_417, NatureDSP Signal 420	
TITE_OPIN_CWGSZ_ZITE_CDI.O		2010	Nacarebor_bignar_255, Nacarebor_bignar_520	NatureDSP Signal 348,	
				NatureDSP_Signal_349,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_368, NatureDSP Signal 369,	
				NatureDSP Signal 379,	
				NatureDSP Signal 418,	
				NatureDSP_Signal_419,	
551 120 056 111		1.000	cfft32_256, cifft32_256,	NatureDSP_Signal_421,	
fft_cplx_twd32_256_tbl.o		1696	NatureDSP_Signal_277, NatureDSP_Signal_310	NatureDSP_Signal_422 NatureDSP Signal 342,	
				NatureDSP Signal 344,	
				NatureDSP_Signal_346,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_358, NatureDSP Signal 361,	
				NatureDSP_Signal_361,	
				NatureDSP Signal 366,	
				NatureDSP_Signal_368,	
			-:	NatureDSP_Signal_379,	
fft cplx twd32 288 tbl.o		2464	cinfft32_288, cnfft32_288, NatureDSP Signal 296, NatureDSP Signal 329	NatureDSP_Signal_418, NatureDSP Signal 421	
TIC_CPIX_CWG3Z_Z00_CDI.O		2401	NacureDST_Signal_250, NacureDST_Signal_325	NatureDSP Signal 345,	
				NatureDSP_Signal_347,	
				NatureDSP_Signal_350,	
				NatureDSP_Signal_352,	
				NatureDSP_Signal_356, NatureDSP Signal 365,	
				NatureDSP Signal 367,	
				NatureDSP_Signal_370,	
			cinfft32_300, cnfft32_300,	NatureDSP_Signal_372,	
fft_cplx_twd32_300_tbl.o		2520	NatureDSP_Signal_297, NatureDSP_Signal_330	NatureDSP_Signal_377	
				NatureDSP_Signal_347, NatureDSP Signal 349,	
				NatureDSP Signal 351,	
				NatureDSP Signal 360,	
				NatureDSP_Signal_367,	
				NatureDSP_Signal_369, NatureDSP Signal 371,	
				NatureDSP_Signal_3/1, NatureDSP Signal 381,	
				NatureDSP_Signal_417,	
fft_cplx_twd32_320_tbl.o		2688	cinfft32_320, cnfft32_320	NatureDSP_Signal_420	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_346,	
				NatureDSP_Signal_348, NatureDSP Signal 358,	
				NatureDSP Signal 364,	
			cinfft32_324, cnfft32_324,	NatureDSP_Signal_366,	
fft_cplx_twd32_324_tbl.o		2752	NatureDSP_Signal_298, NatureDSP_Signal_331	NatureDSP_Signal_368,	

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Object file	Code size	Data size	Global	Referenced	
-				NatureDSP Signal 379	
				NatureDSP_Signal_343,	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_352,	
				NatureDSP_Signal_354,	
				NatureDSP_Signal_362, NatureDSP Signal 364,	
				NatureDSP Signal 372,	
				NatureDSP_Signal_375,	
			cinfft32_360, cnfft32_360,	NatureDSP_Signal_417,	
fft_cplx_twd32_360_tbl.o		3024	NatureDSP_Signal_299, NatureDSP_Signal_332	NatureDSP_Signal_420	
				NatureDSP_Signal_344, NatureDSP Signal 348,	
				NatureDSP Signal 358,	
				NatureDSP Signal 364,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_373,	
				NatureDSP_Signal_379,	
				NatureDSP_Signal_415, NatureDSP Signal 418,	
fft cplx twd32 384 tbl.o		3168	cinfft32 384, cnfft32 384	NatureDSP_Signal_418, NatureDSP Signal 421	
	-	2±00	51.111552_501, 61.111652_504	NatureDSP Signal 348,	
				NatureDSP Signal 350,	
	1			NatureDSP_Signal_352,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_370, NatureDSP Signal 372,	
				NatureDSP_Signal_372, NatureDSP Signal 379,	
				NatureDSP Signal 418,	
fft cplx twd32 400 tbl.o		3320	cinfft32 400, cnfft32 400	NatureDSP Signal 421	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_346,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_364, NatureDSP Signal 366,	
				NatureDSP Signal 368,	
				NatureDSP Signal 379,	
			cinfft32_432, cnfft32_432,	NatureDSP_Signal_418,	
fft_cplx_twd32_432_tbl.o		3616	NatureDSP_Signal_300, NatureDSP_Signal_333	NatureDSP_Signal_421	
				NatureDSP_Signal_342,	
				NatureDSP_Signal_344, NatureDSP Signal 348,	
				NatureDSP Signal 352,	
				NatureDSP Signal 358,	
				NatureDSP Signal 361,	
				NatureDSP_Signal_364,	
	1			NatureDSP_Signal_368,	
				NatureDSP_Signal_372, NatureDSP Signal 379,	
			cinfft32 480, cnfft32 480,	NatureDSP_Signal_3/9, NatureDSP Signal 418,	
fft cplx twd32 480 tbl.o	1	3984	NatureDSP Signal 301, NatureDSP Signal 334	NatureDSP Signal 421	
	İ			NatureDSP_Signal_341,	
	1			NatureDSP_Signal_348,	
				NatureDSP_Signal_358,	
	1			NatureDSP_Signal_368,	
	1			NatureDSP_Signal_373, NatureDSP Signal 379,	
				NatureDSP Signal 418,	
			cfft32 512, cifft32 512,	NatureDSP Signal 419,	
fft_cplx_twd32_512_tbl.o		3248	NatureDSP_Signal_278, NatureDSP_Signal_311	NatureDSP_Signal_421	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_348,	
	1			NatureDSP_Signal_352,	
	1			NatureDSP_Signal_358, NatureDSP Signal 364,	
				NatureDSP Signal 368,	
			cinfft32 540, cnfft32 540,	NatureDSP Signal 372,	
fft_cplx_twd32_540_tbl.o	1	4464	NatureDSP_Signal_302, NatureDSP_Signal_335	NatureDSP_Signal_379	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_346,	
	1			NatureDSP_Signal_348,	
				NatureDSP_Signal_358,	
	1			NatureDSP_Signal_364, NatureDSP Signal 366,	
	1		cinfft32 576, cnfft32 576,	NatureDSP_Signal_366, NatureDSP Signal 368,	
	•	1	NatureDSP Signal 303, NatureDSP Signal 336	NatureDSP Signal 379,	

Con		Data	Symbols		
Object file	Code size	size	Global	Referenced	
				NatureDSP_Signal_418,	
				NatureDSP_Signal_421 NatureDSP Signal 345,	
				NatureDSP_Signal_350,	
				NatureDSP_Signal_356, NatureDSP Signal 365,	
				NatureDSP_Signal_303,	
				NatureDSP_Signal_373,	
fft1 td22 C00 tb1 -		4896	cinfft32 600, cnfft32 600	NatureDSP_Signal_377,	
fft_cplx_twd32_600_tbl.o		4896	CINITES2_600, CNITES2_600	NatureDSP_Signal_415 NatureDSP Signal 346,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_366, NatureDSP Signal 368,	
				NatureDSP_Signal_379,	
fft1 td22 7.00 t-b1 -		6204	cinfft32_768, cnfft32_768,	NatureDSP_Signal_418,	
fft_cplx_twd32_768_tbl.o		6304	NatureDSP_Signal_304, NatureDSP_Signal_337	NatureDSP_Signal_421 NatureDSP Signal 344,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_352,	
				NatureDSP_Signal_358, NatureDSP Signal 364,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_372,	
			cinfft32 960, cnfft32 960,	NatureDSP_Signal_379, NatureDSP Signal 418,	
fft cplx twd32 960 tbl.o		7824	NatureDSP Signal 305, NatureDSP Signal 338	NatureDSP Signal 421	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_349,	
				NatureDSP_Signal_358, NatureDSP Signal 368,	
				NatureDSP_Signal_369,	
				NatureDSP_Signal_379,	
				NatureDSP_Signal_418, NatureDSP Signal 419,	
			cfft32 1024, cifft32 1024,	NatureDSP Signal 421,	
fft_cplx_twd32_1024_tbl.o		6328	NatureDSP_Signal_279, NatureDSP_Signal_312	NatureDSP Signal 422	
				NatureDSP_Signal_341, NatureDSP Signal 348,	
				NatureDSP Signal 358,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_373, NatureDSP Signal 379,	
				NatureDSP_Signal_418,	
			cfft32_2048, cifft32_2048,	NatureDSP_Signal_419,	
fft_cplx_twd32_2048_tbl.o		12488	NatureDSP_Signal_280, NatureDSP_Signal_313	NatureDSP_Signal_421 NatureDSP Signal 348,	
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				NatureDSP_Signal_358,	
				NatureDSP_Signal_368, NatureDSP Signal 369,	
				NatureDSP Signal 379,	
				NatureDSP_Signal_418,	
			cfft32 4096, cifft32 4096,	NatureDSP_Signal_419, NatureDSP Signal 421,	
fft cplx twd32 4096 tbl.o		24784	NatureDSP Signal 281, NatureDSP Signal 314	NatureDSP Signal 422	
			cinfft32x16_160, cnfft32x16_160,		
fft_cplx_twd32x16_160_tbl.o	1	744	NatureDSP_Signal_774, NatureDSP_Signal_799 cinfft32x16_192, cnfft32x16_192,		
fft cplx twd32x16 192 tbl.o		912	NatureDSP Signal 773, NatureDSP Signal 798		
			cinfft32x16_240, cnfft32x16_240,		
fft_cplx_twd32x16_240_tbl.o		1104	NatureDSP_Signal_772, NatureDSP_Signal_797		
fft cplx twd32x16 320 tbl.o fft cplx twd32x16 384 tbl.o	 	1424 1664	cinfft32x16 320, cnfft32x16 320 cinfft32x16 384, cnfft32x16 384		
fft_cplx_twd32x16_480_tbl.o		2048	cinfft32x16_480, cnfft32x16_480		
fft real_twd32x16_160_tbl.o		616	rinfft32x16_160, rnfft32x16_160		
fft_real_twd32x16_192_tbl.o fft_real_twd32x16_240_tbl.o	-	696 840	rinfft32x16 192, rnfft32x16 192 rinfft32x16 240, rnfft32x16 240		
IIL_IEAI_LWU3ZXI0_Z4U_LDI.O	 	840	1111111032X10_24U, 11111032X10_24U	NatureDSP Signal 774,	
	1	244	rinfft32x16 320, rnfft32x16 320	NatureDSP Signal 799	
fft_real_twd32x16_320_tbl.o		344		NatureDSP Signal 773,	
fft_real_twd32x16_320_tbl.o fft_real_twd32x16_384_tbl.o		408	rinfft32x16_384, rnfft32x16_384		
			-	NatureDSP_Signal_773, NatureDSP_Signal_798	

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Object file	size	size	Global	Referenced
,			NatureDSP_Signal_annotation_scl_complex2mag,	
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			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	
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			, NatureDSP Signal annotation fft cplx32x16,	
			NatureDSP_Signal_annotation_fft_cplx32x16_ie	
			, 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	
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			NatureDSP_Signal_annotation_fft_real32x16, NatureDSP_Signal_annotation_fft_real32x16 ie	
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			NatureDSP_Signal_annotation_fft_real32x16_ie	
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			NatureDSP_Signal_annotation_fft_real32x32_ie	
			, NatureDSP_Signal_annotation_fft_realf_ie, NatureDSP Signal annotation fft spectrum16x3	
			2,	
			NatureDSP_Signal_annotation_fft_spectrum32x3 2,	
			NatureDSP_Signal_annotation_fft_spectrumf,	
			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,	
			е,	
			NatureDSP_Signal_annotation_ifft_cplx32x16, NatureDSP_Signal_annotation_ifft_cplx32x16_i	
			е,	
			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	
			е,	
			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_24x24, NatureDSP_Signal_annotation_mdct_32x16,	
NatureDSP_Signal_fft_id.o		5401		

	Code Data		Data Symbols		
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			NatureDSP_Signal_annotation_stereo_fft_cplx1 6x16 ie,		
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			2x16_ie, NatureDSP_Signal_annotation_stereo_fft_cplx3		
			2x32_ie, NatureDSP Signal annotation stereo fft cplxf		
			_ie, NatureDSP Signal annotation stereo ifft cplx		
			16x16_ie, NatureDSP Signal annotation stereo ifft cplx		
			32x16_ie,		
			NatureDSP_Signal_annotation_stereo_ifft_cplx 32x32_ie,		
			NatureDSP_Signal_annotation_stereo_ifft_cplx f_ie		
			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_bkfir32x32ep_pro		
			cess, NatureDSP Signal annotation bkfiral6x16 proc		
			ess, NatureDSP Signal annotation bkfira24x24 proc		
			ess, NatureDSP Signal annotation bkfira32x16 proc		
			ess,		
			NatureDSP_Signal_annotation_bkfira32x32_proc ess,		
			NatureDSP_Signal_annotation_bkfira32x32ep_pr ocess,		
			NatureDSP_Signal_annotation_bkfiraf_process, NatureDSP_Signal_annotation_bkfirf_process,		
			NatureDSP_Signal_annotation_conv2d_11x7_16x1 6,		
			NatureDSP_Signal_annotation_conv2d_11x7_8x16		
			NatureDSP_Signal_annotation_conv2d_11x7_8x8,		
			NatureDSP_Signal_annotation_conv2d_3x3_16x16 ,		
			NatureDSP_Signal_annotation_conv2d_3x3_8x16, NatureDSP_Signal_annotation_conv2d_3x3_8x8,		
			NatureDSP_Signal_annotation_conv2d_5x5_16x16		
			NatureDSP_Signal_annotation_conv2d_5x5_8x16, NatureDSP Signal annotation_conv2d_5x5_8x8,		
			NatureDSP Signal annotation cxfir blms32x32, NatureDSP Signal annotation cxfir blmsf,		
			NatureDSP_Signal_annotation_cxfir_convol32x1		
			6, NatureDSP_Signal_annotation_cxfir_convola32x		
			16, NatureDSP_Signal_annotation_cxfir_xcorr32x32		
			, NatureDSP Signal annotation cxfir xcorra32x3		
			2, NatureDSP Signal annotation exfir xcorraf,		
			NatureDSP_Signal_annotation_cxfir_xcorrf,		
			NatureDSP_Signal_annotation_cxfir16x16_proce ss,		
			NatureDSP_Signal_annotation_cxfir24x24_proce ss,		
			NatureDSP_Signal_annotation_cxfir32x16_proce ss,		
			NatureDSP_Signal_annotation_cxfir32x32_proce ss,		
			NatureDSP_Signal_annotation_cxfir32x32ep_pro cess,		
			NatureDSP_Signal_annotation_cxfirf_process,		
NatureDSP_Signal_fir_id.o		8807	NatureDSP_Signal_annotation_fir_acorr16x16, NatureDSP_Signal_annotation_fir_acorr24x24,		

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,			NatureDSP Signal annotation fir acorr32x32,		
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			NatureDSP Signal annotation fir acorra24x24,		
			NatureDSP Signal annotation fir acorra32x32,		
			NatureDSP_Signal_annotation_fir_acorra32x32e		
			p, 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_blms32x32ep,		
			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_convol32x32e		
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			, NatureDSP Signal annotation fir convola24x24		
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			NatureDSP_Signal_annotation_fir_convola32x16		
			NatureDSP_Signal_annotation_fir_convola32x32 ,		
			NatureDSP_Signal_annotation_fir_convola32x32 ep,		
			NatureDSP_Signal_annotation_fir_convolaf,		
			NatureDSP_Signal_annotation_fir_convolf,		
			NatureDSP_Signal_annotation_fir_lacorra16x16		
			NatureDSP_Signal_annotation_fir_lacorra32x32		
			NatureDSP_Signal_annotation_fir_lconvola16x1 6,		
			NatureDSP_Signal_annotation_fir_lconvola32x3		
			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 xcorr32x32ep		
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			NatureDSP_Signal_annotation_fir_xcorral6x16,		
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			NatureDSP_Signal_annotation_fir_xcorra32x32, NatureDSP_Signal_annotation_fir_xcorra32x32e		
			p, NatureDSP Signal annotation fir xcorraf,		
			NatureDSP_Signal_annotation_fir_xcorrf,		
			NatureDSP_Signal_annotation_firdec16x16_proc		
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			NatureDSP_Signal_annotation_firdec32x16_proc ess,		
			NatureDSP_Signal_annotation_firdec32x32_process,		
			NatureDSP_Signal_annotation_firdec32x32ep_pr ocess,		
			NatureDSP_Signal_annotation_firdecf_process, NatureDSP_Signal_annotation_firinterp16x16_p		
			rocess, NatureDSP Signal annotation firinterp24x24 p		
			rocess, NatureDSP Signal annotation firinterp32x16 p		
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			NatureDSP_Signal_annotation_firinterp32x32_p rocess,		
			NatureDSP_Signal_annotation_firinterp32x32ep _process,		

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			ss, NatureDSP_Signal_annotation_stereo_bkfir16x1	
			6_process, NatureDSP Signal annotation stereo bkfir32x3	
			2_process,	
			NatureDSP_Signal_annotation_stereo_bkfirf_pr ocess	
			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_fit_id.o		250	NatureDSP_Signal_annotation_vec_poly8f	
			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_proces	
			s, NatureDSP_Signal_annotation_latr24x24_proces	
			s, NatureDSP_Signal_annotation_latr32x16_proces	
			s, NatureDSP Signal annotation latr32x32 proces	
			s, NatureDSP Signal annotation latrf process,	
			NatureDSP_Signal_annotation_stereo_bqriir16x 16 df1,	
			NatureDSP_Signal_annotation_stereo_bqriir32x 16 df1,	
			NatureDSP_Signal_annotation_stereo_bqriir32x 32_df1,	
NatureDSP_Signal_iir_id.o		2124	NatureDSP_Signal_annotation_stereo_bqriirf_d f1	
			NatureDSP_Signal_annotation_scl_antilog10_24 x24,	
			NatureDSP_Signal_annotation_scl_antilog10_32 x32,	
			NatureDSP_Signal_annotation_scl_antilog10f,	
			NatureDSP_Signal_annotation_scl_antilog2_24x 24,	
			NatureDSP_Signal_annotation_scl_antilog2_32x 32,	
			NatureDSP_Signal_annotation_scl_antilog2f,	
			NatureDSP_Signal_annotation_scl_antilogn_24x 24,	
			NatureDSP_Signal_annotation_scl_antilogn_32x 32,	
			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_divide64x32,	
			NatureDSP_Signal_annotation_scl_divide64x64, 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 math id o		4963	NatureDSP Signal annotation scl log2 24x24, NatureDSP Signal annotation scl log2 32x32,	
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			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_recip64x64,		
			NatureDSP_Signal_annotation_scl_relu32x32, NatureDSP_Signal_annotation_scl_reluf,		
			NatureDSP Signal annotation scl rsqrt16x16,		
			NatureDSP Signal annotation scl rsqrt32x32,		
			NatureDSP Signal annotation scl sigmoid32x32		
			, NatureDSP Signal annotation scl sigmoidf,		
			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_sqrt32x16,		
			NatureDSP_Signal_annotation_scl_sqrt32x32, NatureDSP_Signal_annotation_scl_sqrt64x32,		
			NatureDSP_Signal_annotation_sci_sqrtb4x32, NatureDSP Signal annotation scl tan24x24,		
			NatureDSP Signal annotation scl tan32x32,		
			NatureDSP Signal annotation scl tanf,		
			NatureDSP Signal annotation scl tanh32x32,		
			NatureDSP_Signal_annotation_scl_tanhf,		
			NatureDSP_Signal_annotation_vec_antilog10_24		
			x24,		
			NatureDSP_Signal_annotation_vec_antilog10_32		
			x32,		
			NatureDSP_Signal_annotation_vec_antilog10f,		
			NatureDSP_Signal_annotation_vec_antilog2_24x		
			24,		
			NatureDSP_Signal_annotation_vec_antilog2_32x 32,		
			NatureDSP Signal annotation vec antilog2f,		
			NatureDSP Signal annotation vec antilogn 24x		
			24,		
			NatureDSP Signal annotation vec antilogn 32x		
			32,		
			NatureDSP_Signal_annotation_vec_antilognf,		
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			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, NatureDSP Signal annotation vec_cosine24x24		
			fast,		
			NatureDSP Signal annotation vec cosine32x32,		
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			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		
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			NatureDSP Signal annotation vec divide64x32i		
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			NatureDSP_Signal_annotation_vec_divide64x64,		
			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_logn_32x32, NatureDSP Signal annotation vec lognf,		
			NatureDSP Signal annotation vec_logni, NatureDSP Signal annotation vec pow 32x32,		
	1		NatureDSP Signal annotation vec recip16x16,		

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Object file Code			Global	Referenced	
			NatureDSP Signal annotation vec recip24x24,		
			NatureDSP_Signal_annotation_vec_recip32x32,		
			NatureDSP_Signal_annotation_vec_recip64x64,		
			NatureDSP_Signal_annotation_vec_relu32x32, NatureDSP_Signal_annotation_vec_reluf,		
			NatureDSP_Signal_annotation_vec_rsqrt16x16,		
			NatureDSP_Signal_annotation_vec_rsqrt32x32,		
			NatureDSP_Signal_annotation_vec_sigmoid32x32 , NatureDSP Signal annotation vec sigmoidf,		
			NatureDSP_Signal_annotation_vec_sine24x24,		
			NatureDSP_Signal_annotation_vec_sine24x24_fa		
			st, NatureDSP Signal annotation vec sine32x32,		
			NatureDSP Signal annotation vec sine32x32 fa		
			st, NatureDSP_Signal_annotation_vec_sinef,		
			NatureDSP_Signal_annotation_vec_softmax32x32 , NatureDSP Signal annotation vec softmaxf,		
			NatureDSP Signal annotation vec sqrt16x16,		
			NatureDSP_Signal_annotation_vec_sqrt24x24,		
			NatureDSP_Signal_annotation_vec_sqrt24x24_fa		
			st, NatureDSP Signal annotation vec sqrt32x16,		
			NatureDSP_Signal_annotation_vec_sqrt32x32,		
			NatureDSP_Signal_annotation_vec_sqrt32x32_fa		
			st, 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 annotation vec tanhf		
			NatureDSP_Signal_annotation_cmtx_gjelim10x10		
			_32x32, NatureDSP Signal annotation cmtx gjelim2x2 3		
			2x32,		
			NatureDSP_Signal_annotation_cmtx_gjelim3x3_3		
			2x32, NatureDSP Signal annotation cmtx gjelim4x4 3		
			2x32,		
			NatureDSP_Signal_annotation_cmtx_gjelim6x6_3		
			2x32, NatureDSP_Signal_annotation_cmtx_gjelim8x8_3		
			2x32,		
			NatureDSP_Signal_annotation_cmtx_inv10x10_32		
			x32, NatureDSP Signal annotation cmtx inv2x2 32x3		
			2,		
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			NatureDSP_Signal_annotation_cmtx_inv4x4_32x3 2,		
			NatureDSP_Signal_annotation_cmtx_inv6x6_32x3 2,		
			NatureDSP_Signal_annotation_cmtx_inv8x8_32x3 2,		
			NatureDSP_Signal_annotation_mtx_gjelim10x10_ 32x32,		
			NatureDSP_Signal_annotation_mtx_gjelim2x2_32 x32,		
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			NatureDSP_Signal_annotation_mtx_gjelim6x6_32 x32,		
			NatureDSP_Signal_annotation_mtx_gjelim8x8_32 x32,		
			NatureDSP_Signal_annotation_mtx_inv10x10_32x 32,		
			NatureDSP_Signal_annotation_mtx_inv10x10f, NatureDSP_Signal_annotation_mtx_inv2x2_32x32		
			, NatureDSP_Signal_annotation_mtx_inv2x2f,		
			NatureDSP_Signal_annotation_mtx_inv3x3_32x32		
			, NatureDSP_Signal_annotation_mtx_inv3x3f, NatureDSP Signal annotation mtx inv4x4 32x32		
			, NatureDSP_Signal_annotation_mtx_inv4x4f,		
NaturaDCD Cianal matical		1000	NatureDSP_Signal_annotation_mtx_inv6x6_32x32		
NatureDSP_Signal_matinv_id.o	l	1836	, NatureDSP_Signal_annotation_mtx_inv6x6f,	<u> </u>	

	Codo	Data	Symbols		
Object file Code	Data size	Global	Referenced		
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			t, NatureDSP_Signal_annotation_mtx_mpy24x24,		
			NatureDSP_Signal_annotation_mtx_mpy24x24_fas		
			t, NatureDSP_Signal_annotation_mtx_mpy32x32, NatureDSP Signal annotation mtx mpy32x32 fas		
			t, NatureDSP_Signal_annotation_mtx_mpy8x16,		
			NatureDSP_Signal_annotation_mtx_mpy8x16_fast		
			, NatureDSP_Signal_annotation_mtx_mpy8x8, NatureDSP Signal annotation mtx mpy8x8 fast,		
			NatureDSP_Signal_annotation_mtx_mpyf,		
			NatureDSP_Signal_annotation_mtx_mpyf_fast, NatureDSP_Signal_annotation_mtx_mpyt16x16,		
			NatureDSP Signal annotation mtx mpyt16x16 fa		
			st,		
			NatureDSP_Signal_annotation_mtx_mpyt32x32, NatureDSP_Signal_annotation_mtx_mpyt32x32 fa		
			st,		
			NatureDSP_Signal_annotation_mtx_mpyt8x16,		
			NatureDSP_Signal_annotation_mtx_mpyt8x16_fas t, NatureDSP Signal annotation mtx mpyt8x8,		
			NatureDSP_Signal_annotation_mtx_mpyt8x8_fast		
			, NatureDSP_Signal_annotation_mtx_mpytf, NatureDSP Signal annotation mtx mpytf fast,		
			NatureDSP Signal annotation mtx transpose16x		
			16,		
			NatureDSP_Signal_annotation_mtx_transpose16x 16 fast,		
			NatureDSP Signal annotation mtx transpose32x		
			32,		
			NatureDSP_Signal_annotation_mtx_transpose32x 32 fast,		
			NatureDSP_Signal_annotation_mtx_transpose8x8		
			, NatureDSP Signal annotation mtx transpose8x8		
			fast,		
			NatureDSP_Signal_annotation_mtx_transposef,		
			NatureDSP_Signal_annotation_mtx_transposef_f ast,		
			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_vecmpy8x16, NatureDSP_Signal_annotation_mtx_vecmpy8x16 f		
			ast,		
			NatureDSP_Signal_annotation_mtx_vecmpy8x8,		
			NatureDSP_Signal_annotation_mtx_vecmpy8x8_fa st, NatureDSP Signal annotation mtx vecmpyf,		
NatureDSP_Signal_matop_id.o		1661	NatureDSP_Signal_annotation_mtx_vecmpyf_fast		
			NatureDSP_Signal_annotation_scl_add_32x16ef, NatureDSP Signal annotation scl bexp16,		
			NatureDSP_Signal_annotation_scl_bexp32,		
			NatureDSP_Signal_annotation_scl_bexpf,		
			NatureDSP_Signal_annotation_scl_mac_32x16ef, NatureDSP Signal annotation scl mul 32x16ef,		
			NatureDSP_Signal_annotation_vec_add_32x16ef,		
			NatureDSP_Signal_annotation_vec_add16x16,		
			NatureDSP_Signal_annotation_vec_add16x16_fas t, NatureDSP Signal annotation vec add32x32,		
			NatureDSP_Signal_annotation_vec_add32x32_fas		
			t, NatureDSP_Signal_annotation_vec_addf, NatureDSP Signal annotation vec bexp16,		
			NatureDSP_Signal_annotation_vec_bexp16, NatureDSP Signal annotation vec bexp16 fast,		
			NatureDSP_Signal_annotation_vec_bexp24_fast,		
			NatureDSP_Signal_annotation_vec_bexp32, NatureDSP Signal annotation vec bexp32 fast,		
			NatureDSP_Signal_annotation_vec_bexp52_last, NatureDSP_Signal_annotation_vec_bexpf,		
			NatureDSP_Signal_annotation_vec_dot_32x16ef,		
			NatureDSP_Signal_annotation_vec_dot16x16, NatureDSP_Signal_annotation_vec_dot16x16 fas		
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Code size			
JJ	Data size	Global	Referenced
	size	NatureDSP Signal annotation vec dot32x16 fas t, NatureDSP_Signal annotation vec dot32x32, NatureDSP Signal annotation vec dot32x32 fas t, NatureDSP_Signal annotation vec dot64x32, NatureDSP_Signal annotation vec dot64x32, fas t, NatureDSP_Signal annotation vec dot64x32 fas t, NatureDSP_Signal annotation vec dot64x32 fas t, NatureDSP_Signal annotation vec dot64x64, NatureDSP_Signal annotation vec dot64x64, NatureDSP_Signal annotation vec dot64x64 fas t, NatureDSP_Signal annotation vec dot64x64i, NatureDSP_Signal annotation vec dot64x64i, NatureDSP_Signal annotation vec max dot64x64i, NatureDSP_Signal annotation vec min6x16, NatureDSP_Signal annotation vec min16x16, NatureDSP_Signal annotation vec min16x16, NatureDSP_Signal annotation vec min32x32, NatureDSP_Signal annotation vec min32x32, NatureDSP_Signal annotation vec min32x32, NatureDSP_Signal annotation vec min32x32, NatureDSP_Signal annotation vec mover16x16, NatureDSP_Signal annotation vec mover16x16, NatureDSP_Signal annotation vec power32x32, NatureDSP_Signal annotation vec power32x32, NatureDSP_Signal annotation vec scale sf, NatureDSP_Signal annotation vec scale for fast, NatureDSP_Signal annotation vec shift16x16 fast, NatureDSP_Signal annotation vec shift16x16 fast, NatureDSP_Signal annotation vec shift1	Referenced
		NatureDSP_Signal_annotation_logme132x32_process, NatureDSP_Signal_annotation_logmelf_process, NatureDSP_Signal_annotation_mfcc32x32_proces	
	384	NatureDSP_Signal_feclearexcept, NatureDSP_Signal_feraiseexcept,	
249		NatureDSP_Signal_fetestexcept	
10		NatureDSP_Signal_get_Isa_opt NatureDSP Signal isPresent	
2548	68	logmel32x32_alloc, logmel32x32_init logmel32x32_getScratchSize,	memset, NatureDSP_Signal_806, NatureDSP_Signal_807, NatureDSP_Signal_809, vec_recip32X32 NatureDSP_Signal_010, NatureDSP_Signal_806, NatureDSP_Signal_807, vec_bexp32, vec_shift32X32
3418	4∠	NatureDSP Signal 806, NatureDSP Signal 807,	AGC_211111037X37
302		NatureDSP_Signal_809	vec_recip32x32
1685		<pre>logmelf_alloc, logmelf_init</pre>	memset, NatureDSP_Signal_806, NatureDSP_Signal_807, scl_antilog10f, scl_antilog2f, scl_int2float, scl_log10f, scl_log2f, vec_recip32x32
2031	4	logmelf getScratchSize, logmelf process	NatureDSP_Signal_244, NatureDSP_Signal_806, NatureDSP_Signal_807, vec log10f, vec lognf
	28 10 2548 3218 302	249 28 10 2548 68 3218 42 302	t, NatureDBP Signal annotation vec dot32x32, NatureDBP Signal annotation vec dot64x32, fast t, NatureDBP Signal annotation vec dot64x2 fast t, NatureDBP Signal annotation vec dot64x64; NatureDBP Signal annotation vec dot64x64, NatureDBP Signal annotation vec max16x16, NatureDBP Signal annotation vec max2x32, NatureDBP Signal annotation vec max3x32, NatureDBP Signal annotation vec min16x16, NatureDBP Signal annotation vec morefax16, NatureDBP Signal annotation vec power16x16, NatureDBP Signal annotation vec scale16x16, NatureDB

Object file	Code size	Data size	Symbols		
			Global	Referenced	
				NatureDSP_Signal_816,	
mfcc32x32_compDctMatrix_hifi4				scl_sqrt64x32,	
.0	1234		NatureDSP_Signal_810	vec_recip32x32	
mfcc32x32_compLifterCoefs_hif i4.o	1063		NatureDSP Signal 811	NatureDSP_Signal_816, vec recip32x32	
14.0	1003		Nacurebor_orginar_orr	logme132x32 alloc,	
				logmel32x32 init,	
				memset,	
				mtx_vecmpy32x32,	
				mtx_vecmpy32x32_fast,	
	700			NatureDSP_Signal_810, NatureDSP Signal 811	
mfcc32x32_hifi4.o	789 322		mfcc32x32_alloc, mfcc32x32_init	NatureDSP_Signal_811	
mfcc32x32_preemph_hifi4.o	322		NatureDSP_Signal_814	logme132x32 getScratchS	
				ize,	
				logme132x32_process,	
				memset,	
				NatureDSP_Signal_814,	
				NatureDSP_Signal_815,	
				NatureDSP_Signal_817,	
mfcc32x32_process_hifi4.o	797		mfcc32x32_getScratchSize, mfcc32x32_process	vec_shift32x32	
mfcc32x32_remdc_hifi4.o mfcc32x32_tbl.o	189	192	NatureDSP Signal 815 NatureDSP Signal 816	vec_recip32x32	
mfcc32x32_tb1.0 mfcc32x32_vecmpy hifi4.o	161	192	NatureDSP_Signal_817		
mfcc common hifi4.o	84		mfcc getDefaultParams	memset	
mice_common_niii.	0.4		mrcc_getberaurtrarams	NatureDSP Signal 249,	
mfccf compDctMatrix hifi4.o	519		NatureDSP Signal 812	scl cosinef	
				NatureDSP Signal 249,	
mfccf_compLifterCoefs_hifi4.o	256		NatureDSP_Signal_813	scl_sinef	
				logmelf_alloc,	
				<pre>logmelf_init, memset,</pre>	
				mtx_vecmpyf,	
				<pre>mtx_vecmpyf_fast, NatureDSP Signal 812,</pre>	
mfccf hifi4.o	734		mfccf alloc, mfccf init	NatureDSP_Signal_612,	
mfccf preemph hifi4.o	320		NatureDSP Signal 818		
				logmelf getScratchSize,	
				logmelf_process,	
				memset,	
				NatureDSP_Signal_818,	
	710			NatureDSP_Signal_819,	
mfccf_process_hifi4.o	719 843		mfccf getScratchSize, mfccf process NatureDSP Signal 819	NatureDSP_Signal_820	
mfaaf romda hifi/ o			I NATHTENSE STORAL 619	1	
mfccf_remdc_hifi4.o					
mfccf_remdc_hifi4.o mfccf_vecmpy_hifi4.o	282		NatureDSP Signal 820 NatureDSP Signal get library api version,		