NatureDSP Signal for HiFi4

Digital Signal Processing

Performance data

Library Release 4.1.0
API Revision 4.30

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Contents

General Settings and Requirements

Library migh be built with different memory modeling options. This is controlled by makefile variable MEM_MODEL.

memory modeling	memory map	ISS options	Memory simulation	Location of data	Memory simulation
MEM_MODEL=0		not required	not done	not done	not done
MEM_MODEL=1	sim-local	--mem-model	DRAM	DRAM	DRAM
MEM_MODEL=2	sim	--mem-model	SRAM	SRAM	DRAM, SRAM, cache

Detailed information about memory maps, ISS memory modeling options might be found in the ISS and linker guides. For performance testing, the target system should have enough DRAM to be built with MEM_MODEL=1.

If your target core does not have enough DRAM for the whole test framework, then building the code with MEM_MODEL=1 will fail. You may still proceed with functional validation using MEM_MODEL=2 or MEM_MODEL=0, but the cycle measurements in this mode will be inaccurate,

NOTE: this does not mean that the library code is limited to use in such systems - it just means that whole test harness with full library do not fit into the memory of particular core.

In case of xws package imported in Xtensa Xplorer, the user needs to select proper target configuration, memory modeling options and memory maps from the “Target” dropdown. Default value of Target is with MEM_MODEL=2. If you are looking for cycle measurement, then select a target with MEM_MODEL=1. With MEM_MODEL=2, cycle measurements are taken with warmed up Caches, i.e., the required library function is executed once before starting execution for cycles measurement for that library function, so that Cache will have the partial code and data already in Cache.

In case, user wants to execute without warmup, then add a command line argument “-nowarmup", it invalidates cache before each cycle measurement.

All data presented below are given with memory modeling (build with `MEM_MODEL=1` and run simulator with `--mem-model`). This performance measurement is done using the Xtensa Xplorer and Tools version RI-2020.4 using xcc compiler. Core used is HiFi4 + VFPU (bd5) with xclib configurations

Performance Briefs

This chapter collects brief performance data for library functions.

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, 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	2909 (7.0 MACs/cycle)
bkfira16x16_process	Real FIR filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 80; M: 256	2981 (6.9 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	5438 (3.8 MACs/cycle)
bkfir32x16_process	Fast Real FIR filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 256	3628 (5.6 MACs/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
bkfir32x32_process	Fast Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 80; M: 256	5396 (3.8 MACs/cycle)
bkfir32x32ep_process	Fast Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 80; M: 256	5580 (3.7 MACs/cycle)
bkfira32x16_process	Real FIR filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 80; M: 256	4259 (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_process	Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 80; M: 256	5768 (3.6 MACs/cycle)
cxfir16x16_process	Fast Complex Block FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 80; M: 128	6855 (6.0 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	10817 (3.8 MACs/cycle)
cxfir32x32ep_process	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	10918 (3.8 MACs/cycle)
stereo_bkfir16x16_process	Fast Real FIR Stereo filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 80; M: 256	6112 (6.7 MACs/cycle)
stereo_bkfir32x32_process	Fast Real FIR Stereo filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 80; M: 256	10884 (3.8 MACs/cycle)
bkfiraf_process	Real FIR filter (floating point data)	N: 512; M: 32	7454 (2.2 MACs/cycle)
bkfirf_process	Fast Real FIR filter (floating point data)	N: 512; M: 32	7693 (2.1 MACs/cycle)
stereo_bkfirf_process	Fast Real FIR Stereo filter (floating point data)	N: 512; M: 32	17957 (1.8 MACs/cycle)
cxfirf_process	Fast Complex Block FIR Filter (floating point data)	N: 512; M: 32	19083 (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	46109 (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	59741 (4.4 MACs/cycle)
firdec16x16_process	Decimating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 4	39199 (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	38949 (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	50067 (5.2 MACs/cycle)
firdec32x16_process	Decimating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	43045 (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	71711 (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	73896 (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	74271 (3.5 MACs/cycle)
firdec32x32ep_process	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: 2	72609 (3.6 MACs/cycle)
firdec32x32ep_process	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	74279 (3.5 MACs/cycle)
firdec32x32ep_process	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	74020 (3.5 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 2	71703 (3.7 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 3	99354 (2.6 MACs/cycle)
firdecf_process	Decimating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 4	114714 (2.3 MACs/cycle)
Interpolation			
firinterp16x16_process	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 2	80539 (6.5 MACs/cycle)
firinterp16x16_process	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 3	121957 (6.4 MACs/cycle)
firinterp16x16_process	Interpolating Block Real FIR Filter (16-bit data, 16-bit coefficients, 16-bit outputs)	N: 1024; M: 256; D: 4	161445 (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: 2	77992 (6.7 MACs/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
firinterp32x16_process	Interpolating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	116911 (6.7 MACs/cycle)
firinterp32x16_process	Interpolating Block Real FIR Filter (32-bit data, 16-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	155948 (6.7 MACs/cycle)
firinterp32x32_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 2	139816 (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	216361 (3.6 MACs/cycle)
firinterp32x32_process	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 4	287017 (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: 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	219562 (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: 4	292392 (3.6 MACs/cycle)
firinterpf_process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 2	134295 (3.9 MACs/cycle)
firinterpf_process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 3	221465 (3.6 MACs/cycle)
firinterpf_process	Interpolating Block Real FIR Filter (floating point data)	N: 1024; M: 256; D: 4	269082 (3.9 MACs/cycle)
Correlation, Convolution, Despreading, LMS			
fir_convol16x16	Fast Circular Convolution (16x16-bit data, 16-bit outputs)	N: 256; M: 80	3519 (5.8 MACs/cycle)
fir_convol32x16	Fast Circular Convolution (32x16-bit data, 32-bit outputs)	N: 256; M: 80	3735 (5.5 MACs/cycle)
fir_convol32x32	Fast Circular Convolution (32x32-bit data, 32-bit outputs)	N: 256; M: 80	5594 (3.7 MACs/cycle)
fir_convol32x32ep	Fast Circular Convolution (32x32-bit data, 32-bit outputs) using 72-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	3867 (5.3 MACs/cycle)
fir_convola32x16	Circular Convolution (32x16-bit data, 32-bit outputs)	N: 256; M: 80	4003 (5.1 MACs/cycle)
fir_convola32x32	Circular Convolution (32x32-bit data, 32-bit outputs)	N=256; M=80	5905 (3.5 MACs/cycle)
fir_convola32x32ep	Circular Convolution (32x32-bit data, 32-bit outputs) using 72-bit accumulator for intermediate computations	N=256; M=80	6580 (3.1 MACs/cycle)
cxfir_convol32x16	Fast Circular Convolution (32x16-bit complex data, 32-bit complex 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	17091 (4.8 MACs/cycle)
fir_lconvola16x16	Linear Convolution (16x16-bit data, 16-bit outputs)	N=256; M=80	4213 (4.9 MACs/cycle)
fir_lconvola32x32	Linear Convolution (32x32-bit data, 32-bit outputs)	N=256; M=80	11912 (1.7 MACs/cycle)
fir_xcorr16x16	Fast Circular Correlation (16x16-bit data, 16-bit outputs)	N: 256; M: 80	3662 (5.6 MACs/cycle)
fir_xcorr32x16	Fast Circular Correlation (32x16-bit data, 32-bit outputs)	N: 256; M: 80	3561 (5.8 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	6471 (3.2 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	3869 (5.3 MACs/cycle)
fir_xcorra32x16	Circular Correlation (32x16-bit data, 32-bit outputs)	N: 256; M: 80	4037 (5.1 MACs/cycle)
fir_xcorra32x32	Circular Correlation (32x32-bit data, 32-bit outputs)	N: 256; M: 80	5974 (3.4 MACs/cycle)
fir_xcorra32x32ep	Circular Correlation (32x32-bit data, 32-bit outputs) using 72-bit accumulator for	N: 256; M: 80	6644 (3.1 MACs/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
	intermediate computations		
fir_lxcorra16x16	Linear Correlation (16x16-bit data, 16-bit outputs)	N=256; M=80	4212 (4.9 MACs/cycle)
fir_lxcorra32x32	Linear Correlation (32x32-bit data, 32-bit outputs)	N=256; M=80	11912 (1.7 MACs/cycle)
fir_acorr16x16	Fast Circular Autocorrelation (16-bit data, 16-bit outputs)	N: 256	9947 (6.6 MACs/cycle)
fir_acorr32x32	Fast Circular Autocorrelation (32-bit data, 32-bit outputs)	N: 256	16853 (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	9633 (6.8 MACs/cycle)
fir_acorra32x32	Circular Autocorrelation (32-bit data, 32-bit outputs)	N: 256	17063 (3.8 MACs/cycle)
fir_acorra32x32ep	Circular Autocorrelation (32-bit data, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 256	17732 (3.7 MACs/cycle)
fir_lacorra16x16	Linear Autocorrelation (16-bit data, 16-bit outputs)	N=256	5259 (6.2 MACs/cycle)
fir_lacorra32x32	Linear Autocorrelation (32-bit data, 32-bit outputs)	N=256	17886 (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	3732 (5.5 MACs/cycle)
fir_blms16x32	Blockwise Adaptive LMS Algorithm for Real Data (32-bit coefficients, 16-bit data, 16-bit output)	N: 80; M: 128	3598 (5.7 MACs/cycle)
fir_blms32x32	Blockwise Adaptive LMS Algorithm for Real Data (32-bit coefficients, 32-bit data, 32-bit output)	N: 80; M: 128	5684 (3.6 MACs/cycle)
fir_blms32x32ep	Blockwise Adaptive LMS Algorithm for Real Data (32-bit coefficients, 32-bit data, 32-bit output) using 72-bit accumulator for intermediate computations	N: 80; M: 128	6217 (3.3 MACs/cycle)
cxfir_blms32x32	Blockwise Adaptive LMS Algorithm for Complex Data (32-bit coefficients, 32-bit data, 32-bit output)	N: 80; M: 128	21932 (3.7 MACs/cycle)
fir_convolf	Fast Circular Convolution (floating point data)	N: 256; M: 80	6917 (3.0 MACs/cycle)
fir_convolaf	Circular Convolution (floating point data)	N: 256; M: 80	7460 (2.7 MACs/cycle)
fir_xcorrf	Fast Circular Correlation (floating point data)	N: 256; M: 80	6600 (3.1 MACs/cycle)
cxfir_xcorrf	Circular Correlation (complex floating point data)	N: 256; M: 80	21637 (3.8 MACs/cycle)
fir_xcorraf	Circular Correlation (floating point data)	N: 256; M: 80	7507 (2.7 MACs/cycle)
cxfir_xcorraf	Circular Correlation (complex floating point data)	N: 256; M: 80	21643 (3.8 MACs/cycle)
fir_acorrf	Fast Circular Autocorrelation (floating point data)	N: 256	17871 (3.7 MACs/cycle)
fir_acorraf	Circular Autocorrelation (floating point data)	N: 256	19340 (3.4 MACs/cycle)
fir_blmsf	Blockwise Adaptive LMS Algorithm for Real Data (floating point data)	N: 80; M: 128	6598 (3.1 MACs/cycle)
cxfir_blmsf	Blockwise Adaptive LMS Algorithm for Complex Data (floating point data)	N: 80; M: 128	21562 (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	173167 (3.4 MACs/cycle)
conv2d_5x5_8x8	2D Convolution (5x5 8-bit kernel, 8-bit data)	M=5,N=5,P=256, Q=256	494918 (3.3 MACs/cycle)
conv2d_11x7_8x8	2D Convolution (11x7 8-bit kernel, 8-bit data)	M=11,N=7,P=256 ,Q=256	900612 (5.6 MACs/cycle)
conv2d_3x3_8x16	2D Convolution (3x3 8-bit kernel, 16-bit data)	M=3,N=3,P=256, Q=256	139893 (4.2 MACs/cycle)
conv2d_5x5_8x16	2D Convolution (5x5 8-bit kernel, 16-bit data)	M=5,N=5,P=256, Q=256	483476 (3.4 MACs/cycle)
conv2d_11x7_8x16	2D Convolution (11x7 8-bit kernel, 16-bit data)	M=11,N=7,P=256 ,Q=256	849330 (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	483186 (3.4 MACs/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
conv2d_11x7_16x16	2D Convolution (11x7 16-bit kernel, 16-bit data)	M=11,N=7,P=256 ,Q=256	849272 (5.9 MACs/cycle)
conv2d_3x3f	2D Convolution (3x3 kernel, floating point data)	M=3,N=3,P=128, Q=256	169992 (1.7 MACs/cycle)
conv2d_5x5f	2D Convolution (5x5 kernel, floating point data)	M=5,N=5,P=128, Q=256	406588 (2.0 MACs/cycle)
conv2d_11x7f	2D Convolution (11x7 kernel, floating point data)	M=11,N=7,P=128 ,Q=256	920055 (2.7 MACs/cycle)
IIR Filters			
Biquad Filters			
bqriir16x16_df1	Bi-quad Real Block IIR, DFI (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs)	N=256, M=8, gain=1	4890 (2.4 cycles/(biquad*pts)
bqriir16x16_df2	Bi-quad Real Block IIR, DFII (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs)	N=256, M=8, gain=1	4896 (2.4 cycles/(biquad*pts)
bqriir32x16_df1	Bi-quad Real Block IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	3461 (1.7 cycles/(biquad*pts)
bqriir32x16_df2	Bi-quad Real Block IIR, DFII (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	3933 (1.9 cycles/(biquad*pts)
bqriir32x32_df1	Bi-quad Real Block IIR, DFI (32-bit data, 32-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	3396 (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	5923 (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	10596 (5.2 cycles/(biquad*pts)
stereo_bqriir32x16_df1	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	9631 (4.7 cycles/(biquad*pts)
stereo_bqriir32x32_df1	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 32-bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	8425 (4.1 cycles/(biquad*pts)
bqriirf_df1	Bi-quad Real Block IIR, DFI (floating point data)	N=512, M=16	22090 (2.7 cycles/(biquad*pts)
bqriirf_df2	Bi-quad Real Block IIR, DFII (floating point data)	N=512, M=16	19919 (2.4 cycles/(biquad*pts)
bqriirf_df2t	Bi-quad Real Block IIR, DFIIt (floating point data)	N=512, M=16	18464 (2.3 cycles/(biquad*pts)
bqciirf_df1	Bi-quad Real Block IIR, DFI (complex floating point data)	N=512, M=16	36798 (4.5 cycles/(biquad*pts)
stereo_bqriirf_df1	Bi-quad Real Block Stereo IIR, DFI (floating point data)	N=512, M=16	38514 (4.7 cycles/(biquad*pts)
Biquad Filters, no delay			
bqriir16x16_df1_nd	Bi-quad Real Block IIR, DFI (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	4960 (2.4 cycles/(biquad*pts)
bqriir16x16_df2_nd	Bi-quad Real Block IIR, DFII (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	5284 (2.6 cycles/(biquad*pts)
bqriir32x16_df1_nd	Bi-quad Real Block IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	3451 (1.7 cycles/(biquad*pts)
bqriir32x16_df2_nd	Bi-quad Real Block IIR, DFII (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	3922 (1.9 cycles/(biquad*pts)
bqriir32x32_df1_nd	Bi-quad Real Block IIR, DFI (32-bit data, 32-bit coefficients, 32-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	3386 (1.7 cycles/(biquad*pts)
bqriir32x32_df2_nd	Bi-quad Real Block IIR, DFII (32-bit data, 32-bit coefficients, 32-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	5913 (2.9 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	Bi-quad Stereo Block Stereo IIR, DFI (16-bit data, 16-bit coefficients, 16-bit intermediate stage outputs) no delay version	N=256, M=8, gain=1	10880 (5.3 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate stage outputs) no delay version	N=256, M=8, gain=1	9624 (4.7 cycles/(biquad*pts)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
stereo_bqriir32x32_df1_nd	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 32-bit coefficients, 32-bit intermediate stage outputs) no delay version	N=256, M=8, gain=1	8417 (4.1 cycles/(biquad*pts)
bqriirf_df1_nd	Bi-quad Real Block IIR, DFI (floating point data) no delay version	N=512, M=16	36637 (4.5 cycles/(biquad*pts)
bqriirf_df2_nd	Bi-quad Real Block IIR, DFII (floating point data) no delay version	N=512, M=16	33577 (4.1 cycles/(biquad*pts)
bqriirf_df2t_nd	Bi-quad Real Block IIR, DFIIt (floating point data) no delay version	N=512, M=16	33212 (4.1 cycles/(biquad*pts)
bqciirf_df1_nd	Bi-quad Real Block IIR, DFI (complex floating point data) no delay version	N=512, M=16	41208 (5.0 cycles/(biquad*pts)
stereo_bqriirf_df1_nd	Bi-quad Real Block Stereo IIR, DFI (floating point data) no delay version	N=512, M=16	46578 (5.7 cycles/(biquad*pts)
Lattice Filters			
latr16x16_process	Lattice Block Real IIR (16-bit data, 16-bit coefficients)	N=256, M=8	2599 (1.3 cycles/(sample*M)
latr32x16_process	Lattice Block Real IIR (32-bit data, 16-bit coefficients)	N=256, M=8	2591 (1.3 cycles/(sample*M)
latr32x32_process	Lattice Block Real IIR (32-bit data, 32-bit coefficients)	N=256, M=8	3099 (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	2016 (10.1 cycles/pts)
vec_recip32x32	Vector Reciprocal (32-bit data)	N=200	2632 (13.2 cycles/pts)
vec_recip64x64	Vector Reciprocal (64-bit data)	N=200	4333 (21.7 cycles/pts)
vec_divide64x32i	Vector Division (64-bit nominator, 32-bit denominator, 32-bit output)	N=200	4333 (21.7 cycles/pts)
vec_divide64x64	Vector Division (64-bit data)	N=200	6194 (31.0 cycles/pts)
vec_log2_32x32	Vector Base-2 Logarithm (32-bit data)	N=200	925 (4.6 cycles/pts)
vec_logn_32x32	Vector Natural Logarithm (32-bit data)	N=200	1029 (5.1 cycles/pts)
vec_log10_32x32	Vector Base-10 Logarithm (32-bit data)	N=200	1029 (5.1 cycles/pts)
vec_antilog2_32x32	Vector Base-2 Antilogarithm, (32-bit data)	N=200	582 (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	9230 (46.1 cycles/pts)
vec_tan32x32	Vector Tangent (32-bit data)	N=200	2899 (14.5 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	1152 (5.8 cycles/pts)
vec_sqrt32x16	Vector Square Root (32-bit inputs, 16-bit output)	N=200	1560 (7.8 cycles/pts)
vec_sqrt64x32	Vector Square Root (64-bit inputs, 32-bit output)	N=200	1244 (6.2 cycles/pts)
vec_rsqrt16x16	Vector Reciprocal Square Root (16-bit data)	N=200	2296 (11.5 cycles/pts)
vec_rsqrt32x32	Vector Reciprocal Square Root (32-bit data)	N=200	2951 (14.8 cycles/pts)
vec_sigmoid32x32	Vector Sigmoid (32-bit data)	N=200	1168 (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	1163 (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	2995 (15.0 cycles/pts)
vec_cosinef	Cosine (floating point data)	N=200	2949 (14.7 cycles/pts)
vec_tanf	Vector Tangent (floating point data)	N=200	3702 (18.5 cycles/pts)
vec_log2f	Vector Base-2 Logarithm (floating point data)	N=200	2544 (12.7 cycles/pts)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
vec_log10f	Vector Base-10 Logarithm (floating point data)	N=200	2504 (12.5 cycles/pts)
vec_lognf	Vector Natural Logarithm (floating point data)	N=200	2361 (11.8 cycles/pts)
vec_antilog2f	Vector Base-2 Antilogarithm, (floating point data)	N=200	1144 (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_powf	Vector Power Function, (floating point data)	N=200	11927 (59.6 cycles/pts)
vec_atanf	Vector Arctangent (floating point data)	N=200	2443 (12.2 cycles/pts)
vec_atan2f	Vector Full-Quadrant Arctangent (floating point data)	N=200	3516 (17.6 cycles/pts)
vec_sigmoidf	Vector Sigmoid (floating point data)	N=200	3332 (16.7 cycles/pts)
vec_softmaxf	Vector Softmax (floating point data)	N=200	1670 (8.3 cycles/pts)
vec_tanhf	Vector Hyperbolic Tangent (floating point data)	N=200	4271 (21.4 cycles/pts)
vec_reluf	Vector Rectifier Function (floating point data)	N=200	214 (1.1 cycles/pts)
Vectorized Fast Math			
vec_divide16x16_fast	Fast Vector Division (16-bit data)	N=200	1143 (5.7 cycles/pts)
vec_divide32x32_fast	Fast Vector Division (32-bit data)	N=200	1632 (8.2 cycles/pts)
vec_sine32x32_fast	Fast Vector Sine (32-bit data)	N=200	728 (3.6 cycles/pts)
vec_cosine32x32_fast	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			
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	65 (0.3 cycles/pts)
vec_dot32x16_fast	Fast Vector Dot product (32x16-bit data, 64-bit output)	N=200	86 (0.4 cycles/pts)
vec_dot32x32_fast	Fast Vector Dot product (32x32-bit data, 64-bit output)	N=200	110 (0.6 cycles/pts)
vec_dot64x32_fast	Fast Vector Dot product (64x32-bit data, 64-bit output)	N=200	214 (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	211 (1.1 cycles/pts)
vec_dot_batch8x8	Vector Dot product, batch mode (8x8-bit data, 16-bit output)	N=200, M=16	1637 (0.5 cycles/pts)
vec_dot_batch8x16	Vector Dot product, batch mode (8x16-bit data, 16-bit output)	N=200, M=16	1339 (0.4 cycles/pts)
vec_dot_batch16x16	Vector Dot product, batch mode (16x16-bit data, 32-bit output)	N=200, M=16	1389 (0.4 cycles/pts)
vec_dot_batch8x8_fast	Vector Dot product, batch mode (8x8-bit data, 16-bit output), fast	N=200, M=16	586 (0.2 cycles/pts)
vec_dot_batch8x16_fast	Vector Dot product, batch mode (8x16-bit data, 16-bit output), fast	N=200, M=16	674 (0.2 cycles/pts)
vec_dot_batch16x16_fast	Vector Dot product, batch mode (16x16-bit data, 32-bit output), fast	N=200, M=16	586 (0.2 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	159 (0.8 cycles/pts)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
vec_power16x16_fast	Fast Power of a Vector (16x16-bit data, 64-bit output)	N=200	40 (0.2 cycles/pts)
vec_power32x32_fast	Fast Power of a Vector (32x32-bit data, 64-bit output)	N=200	59 (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	63 (0.3 cycles/pts)
vec_scale32x32_fast	Fast Vector Scaling with Saturation (32-bit input, 32-bit output)	N=200	113 (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	87 (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	121 (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	96 (0.5 cycles/pts)
scl_bexp16	Exponent (16-bit input data)		7 (cycles)
scl_bexp32	Exponent (32-bit input data)		5 (cycles)
vec_dotf	Vector Dot product (floating point data)	N=200	238 (1.2 cycles/pts)
vec_dot_batchf	Vector Dot product, batch mode (floating point data)	N=200, M=16	1761 (0.6 cycles/pts)
vec_dot_batchf_fast	Vector Dot product, batch mode (floating point data), fast	N=200, M=16	1711 (0.5 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	140 (0.7 cycles/pts)
vec_scalef	Vector Scaling with Saturation (floating point data)	N=200	127 (0.6 cycles/pts)
vec_scale_sf	Vector Scaling with Saturation (floating point data)	N=200	230 (1.1 cycles/pts)
vec_minf	Vector Minimum Value (floating point data)	N=200	116 (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)
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	2027 (10.1 cycles/pts)
vec_dot_32x16ef	Vector Dot product (emulated floating point)	N=200	1070 (5.3 cycles/pts)
scl_add_32x16ef	Scalar Addition (emulated floating point)		23 (cycles)
scl_mul_32x16ef	Scalar Multiply (emulated floating point)		15 (cycles)
scl_mac_32x16ef	Scalar Multiply-Accumulate (emulated floating point)		29 (cycles)
Matrix Operations			
mtx_mpy8x8	Matrix Multiply (8-bit data)	16x16 x 16x16	4282 (1.0 MACs/cycle)
mtx_mpy8x8	Matrix Multiply (8-bit data)	32x32 x 32x32	28194 (1.2 MACs/cycle)
mtx_mpy8x8_fast	Fast Matrix Multiply (8-bit data)	16x16 x 16x16	1901 (2.2 MACs/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
mtx_mpy8x8_fast	Fast Matrix Multiply (8-bit data)	32x32 x 32x32	12093 (2.7 MACs/cycle)
mtx_mpy8x8_fast	Fast Matrix Multiply (8-bit data)	8x80 x 80x4	751 (3.4 MACs/cycle)
mtx_mpyt8x8	Matrix Multiply Transpose (8-bit data)	16x16 x 16x16	4557 (0.9 MACs/cycle)
mtx_mpyt8x8	Matrix Multiply Transpose (8-bit data)	32x32 x 32x32	28998 (1.1 MACs/cycle)
mtx_mpyt8x8_fast	Fast Matrix Multiply Transpose (8-bit data)	16x16 x 16x16	1606 (2.6 MACs/cycle)
mtx_mpyt8x8_fast	Fast Matrix Multiply Transpose (8-bit data)	32x32 x 32x32	10262 (3.2 MACs/cycle)
mtx_mpyt8x8_fast	Fast Matrix Multiply Transpose (8-bit data)	8x80 x 80x4	619 (4.1 MACs/cycle)
mtx_mpy8x16	Matrix Multiply (8/16-bit data)	16x16 x 16x16	3114 (1.3 MACs/cycle)
mtx_mpy8x16	Matrix Multiply (8/16-bit data)	32x32 x 32x32	17659 (1.9 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	588 (4.4 MACs/cycle)
mtx_mpyt8x16	Matrix Multiply Transpose (8/16-bit data)	16x16 x 16x16	3176 (1.3 MACs/cycle)
mtx_mpyt8x16	Matrix Multiply Transpose (8/16-bit data)	32x32 x 32x32	13440 (2.4 MACs/cycle)
mtx_mpyt8x16_fast	Fast Matrix Multiply Transpose (8/16-bit data)	16x16 x 16x16	1428 (2.9 MACs/cycle)
mtx_mpyt8x16_fast	Fast Matrix Multiply Transpose (8/16-bit data)	32x32 x 32x32	8160 (4.0 MACs/cycle)
mtx_mpyt8x16_fast	Fast Matrix Multiply Transpose (8/16-bit data)	8x80 x 80x4	526 (4.9 MACs/cycle)
mtx_mpy16x16	Matrix Multiply (16-bit data)	16x16 x 16x16	1697 (2.4 MACs/cycle)
mtx_mpy16x16	Matrix Multiply (16-bit data)	32x32 x 32x32	8389 (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	10575 (3.1 MACs/cycle)
mtx_mpy16x16_fast	Fast Matrix Multiply (16-bit data)	8x80 x 80x4	587 (4.4 MACs/cycle)
mtx_mpyt16x16	Matrix Multiply Transpose (16-bit data)	16x16 x 16x16	1542 (2.7 MACs/cycle)
mtx_mpyt16x16	Matrix Multiply Transpose (16-bit data)	32x32 x 32x32	7806 (4.2 MACs/cycle)
mtx_mpyt16x16_fast	Fast Matrix Multiply Transpose (16-bit data)	16x16 x 16x16	1460 (2.8 MACs/cycle)
mtx_mpyt16x16_fast	Fast Matrix Multiply Transpose (16-bit data)	32x32 x 32x32	7776 (4.2 MACs/cycle)
mtx_mpyt16x16_fast	Fast Matrix Multiply Transpose (16-bit data)	8x80 x 80x4	465 (5.5 MACs/cycle)
mtx_mpy32x32	Matrix Multiply (32-bit data)	16x16 x 16x16	2838 (1.4 MACs/cycle)
mtx_mpy32x32	Matrix Multiply (32-bit data)	32x32 x 32x32	14710 (2.2 MACs/cycle)
mtx_mpy32x32_fast	Fast Matrix Multiply (32-bit data)	16x16 x 16x16	1815 (2.3 MACs/cycle)
mtx_mpy32x32_fast	Fast Matrix Multiply (32-bit data)	32x32 x 32x32	11726 (2.8 MACs/cycle)
mtx_mpy32x32_fast	Fast Matrix Multiply (32-bit data)	8x80 x 80x4	819 (3.1 MACs/cycle)
mtx_mpyt32x32	Matrix Multiply Transpose (32-bit data)	16x16 x 16x16	3261 (1.3 MACs/cycle)
mtx_mpyt32x32	Matrix Multiply Transpose (32-bit data)	32x32 x 32x32	17588 (1.9 MACs/cycle)
mtx_mpyt32x32_fast	Fast Matrix Multiply Transpose (32-bit data)	16x16 x 16x16	1712 (2.4 MACs/cycle)
mtx_mpyt32x32_fast	Fast Matrix Multiply Transpose (32-bit data)	32x32 x 32x32	10767 (3.0 MACs/cycle)
mtx_mpyt32x32_fast	Fast Matrix Multiply Transpose (32-bit data)	8x80 x 80x4	748 (3.4 MACs/cycle)
mtx_vecmpy8x8_fast	Fast Matrix by Vector Multiply (8-bit data)	16x104 x 104x1	352 (4.7 MACs/cycle)
mtx_vecmpy8x16_fast	Fast Matrix by Vector Multiply (8/16-bit data)	16x104 x 104x1	334 (5.0 MACs/cycle)
mtx_vecmpy16x16_fast	Fast Matrix by Vector Multiply (16-bit data)	16x104 x 104x1	326 (5.1 MACs/cycle)
mtx_vecmpy32x32_fast	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_fast	Fast Matrix transpose (8-bit data)	M=32,N=32	572 (1.79 pts/cycle)
mtx_transpose16x16	Matrix transpose (16-bit data)	M=32,N=32	1606 (0.64 pts/cycle)
mtx_transpose16x16_fast	Fast Matrix transpose (16-bit data)	M=32,N=32	547 (1.87 pts/cycle)
mtx_transpose32x32	Matrix transpose (32-bit data)	M=32,N=32	1396 (0.73 pts/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
mtx_transpose32x32_fast	Fast Matrix transpose (32-bit data)	M=32,N=32	776 (1.32 pts/cycle)
mtx_mpyf	Matrix Multiply (floating point data)	16x16 x 16x16	1727 (2.4 MACs/cycle)
mtx_mpyf	Matrix Multiply (floating point data)	32x32 x 32x32	11497 (2.9 MACs/cycle)
mtx_mpyf_fast	Fast Matrix Multiply (floating point data)	16x16 x 16x16	1956 (2.1 MACs/cycle)
mtx_mpyf_fast	Fast Matrix Multiply (floating point data)	32x32 x 32x32	12268 (2.7 MACs/cycle)
mtx_mpyf_fast	Fast Matrix Multiply (floating point data)	8x16 x 16x4	266 (1.9 MACs/cycle)
mtx_mpytf	Matrix Multiply Transpose (floating point data)	16x16 x 16x16	2022 (2.0 MACs/cycle)
mtx_mpytf	Matrix Multiply Transpose (floating point data)	32x32 x 32x32	11758 (2.8 MACs/cycle)
mtx_mpytf_fast	Fast Matrix Multiply Transpose (floating point data)	16x16 x 16x16	1973 (2.1 MACs/cycle)
mtx_mpytf_fast	Fast Matrix Multiply Transpose (floating point data)	32x32 x 32x32	11805 (2.8 MACs/cycle)
mtx_mpytf_fast	Fast Matrix Multiply Transpose (floating point data)	8x16 x 16x4	267 (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	1404 (0.73 pts/cycle)
mtx_transposef_fast	Fast Matrix transpose (floating point data)	M=32,N=32	784 (1.31 pts/cycle)
Matrix Decomposition and Inversion			
Gauss-Jordan			
cmtx_inv2x2_32x32	Gauss-Jordan matrix inversion (complex 32-bit fixed-point data)		358 (358.0 cycles/matrix)
cmtx_inv4x4_32x32	Gauss-Jordan matrix inversion (complex 32-bit fixed-point data)		1165 (1165.0 cycles/matrix)
cmtx_inv8x8_32x32	Gauss-Jordan matrix inversion (complex 32-bit fixed-point data)		5650 (5650.0 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)		638 (638.0 cycles/matrix)
mtx_inv8x8_32x32	Gauss-Jordan matrix inversion (32-bit fixed-point data)		2923 (2923.0 cycles/matrix)
cmtx_gjelim2x2_32x32	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		318 (318.0 cycles/matrix)
cmtx_gjelim4x4_32x32	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		977 (977.0 cycles/matrix)
cmtx_gjelim8x8_32x32	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		3700 (3700.0 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)		584 (584.0 cycles/matrix)
mtx_gjelim8x8_32x32	Gauss-Jordan linear equations solver (32-bit fixed-point data)		2370 (2370.0 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)		272 (272.0 cycles/matrix)
mtx_inv8x8f	Gauss-Jordan matrix inversion (floating point data)		1492 (1492.0 cycles/matrix)
Cholesky			
cmatcholdecomp10x10_32x32	Cholesky decomposition (single matrix complex 32-bit data)	10x10	3376 (3376.0 cycles/matrix)
cmatcholfwdsubst10x10_32x32	Cholesky forward substitution (single matrix complex 32-bit data)	10x10x1	469 (469.0 cycles/matrix)
cmatcholbkwsubst10x10_32x32	Cholesky back substitution (single matrix complex 32-bit data)	10x1	289 (289.0 cycles/matrix)
cmatcholmmsesolver10x10_32x32	Cholesky MMSE (single matrix complex 32-bit data)	10x10x1	4199 (4199.0 cycles/matrix)
cmatcholpreprocess10x10_32x32	Cholesky Preprocessing (single matrix complex 32-bit data)	10x10	1350 (1350.0 cycles/matrix)
cmatcholpseudoinv10x10_32x32	Matrix (Pseudo) Inversion (single matrix complex 32-bit data)	10x10	9563 (9563.0 cycles/matrix)
matcholdecomp10x10_	Cholesky decomposition (single matrix real 32-	10x10	2667 (2667.0 cycles/matrix)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
32x32	bit data)		
matcholfwdsubst10x10_32x32	Cholesky forward substitution (single matrix real 32-bit data)	10x10x1	325 (325.0 cycles/matrix)
matcholbkwsubst10x10_32x32	Cholesky back substitution (single matrix real 32-bit data)	10x1	235 (235.0 cycles/matrix)
matcholmmsesolver10x10_32x32	Cholesky MMSE (single matrix real 32-bit data)	10x10x1	3304 (3304.0 cycles/matrix)
matcholpreprocess10x10_32x32	Cholesky Preprocessing (single matrix real 32-bit data)	10x10	695 (695.0 cycles/matrix)
matcholpseudoinv10x10_32x32	Matrix (Pseudo) Inversion (single matrix real 32-bit data)	10x10	7058 (7058.0 cycles/matrix)
cmatcholdecomp10x10f	Cholesky decomposition (single matrix complex floating-point data)	10x10	2429 (2429.0 cycles/matrix)
cmatcholfwdsubst10x10f	Cholesky forward substitution (single matrix complex floating-point data)	10x10x1	267 (267.0 cycles/matrix)
cmatcholbkwsubst10x10f	Cholesky back substitution (single matrix complex floating-point data)	10x1	123 (123.0 cycles/matrix)
cmatcholmmsesolver10x10f	Cholesky MMSE (single matrix complex floating-point data)	10x10x1	2901 (2901.0 cycles/matrix)
cmatcholpreprocess10x10f	Cholesky Preprocessing (single matrix complex floating-point data)	10x10	943 (943.0 cycles/matrix)
cmatcholpseudoinv10x10f	Matrix (Pseudo) Inversion (single matrix complex floating-point data)	10x10	4392 (4392.0 cycles/matrix)
matcholdecomp10x10f	Cholesky decomposition (single matrix real floating-point data)	10x10	1681 (1681.0 cycles/matrix)
matcholfwdsubst10x10f	Cholesky forward substitution (single matrix real floating-point data)	10x10x1	165 (165.0 cycles/matrix)
matcholbkwsubst10x10f	Cholesky back substitution (single matrix real floating-point data)	10x1	83 (83.0 cycles/matrix)
matcholmmsesolver10x10f	Cholesky MMSE (single matrix real floating-point data)	10x10x1	1992 (1992.0 cycles/matrix)
matcholpreprocess10x10f	Cholesky Preprocessing (single matrix real floating-point data)	10x10	428 (428.0 cycles/matrix)
matcholpseudoinv10x10f	Matrix (Pseudo) Inversion (single matrix real floating-point data)	10x10	2671 (2671.0 cycles/matrix)
Fitting and Interpolation			
Polynomial Fitting			
vec_poly4_32x32	Polynomial approximation (32-bit data)	N=200	376 (1.9 cycles/pts)
vec_poly8_32x32	Polynomial approximation (32-bit data)	N=200	624 (3.1 cycles/pts)
vec_poly4f	Polynomial approximation (floating point data)	N=200	407 (2.0 cycles/pts)
vec_poly8f	Polynomial approximation (floating point data)	N=200	787 (3.9 cycles/pts)
FFT Routines			
Complex FFT			
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	37849 (0.108 pts/cycle)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	45207 (0.091 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	35831 (0.114 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	38839 (0.105 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=3	31985 (0.128 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=2	35624 (0.115 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	37986 (0.108 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	45224 (0.091 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	35827 (0.114 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	39367 (0.104 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=3	32732 (0.125 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=4096, scaling=2	35617 (0.115 pts/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
Real FFT			
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	22161 (0.185 pts/cycle)
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	25479 (0.161 pts/cycle)
fft_real32x16	FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	19837 (0.206 pts/cycle)
fft_real32x16	FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	21290 (0.192 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=3	38183 (0.215 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=2	42858 (0.191 pts/cycle)
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	22249 (0.184 pts/cycle)
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	27050 (0.151 pts/cycle)
ifft_real32x16	Inverse FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=3	20812 (0.197 pts/cycle)
ifft_real32x16	Inverse FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=4096, scaling=2	23052 (0.178 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=3	40986 (0.200 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=8192, scaling=2	44903 (0.182 pts/cycle)
Mixed Radix Complex FFT			
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	8509 (0.113 pts/cycle)
fft_cplx32x32	FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	10081 (0.095 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	8672 (0.111 pts/cycle)
ifft_cplx32x32	Inverse FFT on Complex Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	10079 (0.095 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4403 (0.109 pts/cycle)
fft_cplx32x16	FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	4924 (0.097 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4257 (0.113 pts/cycle)
ifft_cplx32x16	Inverse FFT on Complex Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	4928 (0.097 pts/cycle)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4168 (0.115 pts/cycle)
fft_cplx16x16	FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	5243 (0.092 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	4243 (0.113 pts/cycle)
ifft_cplx16x16	Inverse FFT on Complex Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	5281 (0.091 pts/cycle)
Mixed Radix Real FFT			
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	5848 (0.164 pts/cycle)
fft_real32x32	FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	6900 (0.139 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=3	6136 (0.156 pts/cycle)
ifft_real32x32	Inverse FFT on Real Data (32-bit input/outputs, 32-bit twiddles)	N=960, scaling=2	7077 (0.136 pts/cycle)
fft_real32x16	FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	2535 (0.189 pts/cycle)
fft_real32x16	FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	2832 (0.169 pts/cycle)
ifft_real32x16	Inverse FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	2542 (0.189 pts/cycle)
ifft_real32x16	Inverse FFT on Real Data (32-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	2972 (0.162 pts/cycle)
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	2712 (0.177 pts/cycle)
fft_real16x16	FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	3181 (0.151 pts/cycle)
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=3	2771 (0.173 pts/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
ifft_real16x16	Inverse FFT on Real Data (16-bit input/outputs, 16-bit twiddles)	N=480, scaling=2	3417 (0.140 pts/cycle)
Complex FFT with Optimized Memory			
fft_cplx16x16_ie	FFT on Complex Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	10209 (0.100 pts/cycle)
fft_cplx32x16_ie	FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=3	9305 (0.110 pts/cycle)
fft_cplx32x16_ie	FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=2	10221 (0.100 pts/cycle)
fft_cplx32x32_ie	FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	6969 (0.147 pts/cycle)
fft_cplx32x32_ie	FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	8179 (0.125 pts/cycle)
ifft_cplx16x16_ie	Inverse FFT on Complex Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	10210 (0.100 pts/cycle)
ifft_cplx32x16_ie	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=3	9811 (0.104 pts/cycle)
ifft_cplx32x16_ie	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=2	11522 (0.089 pts/cycle)
ifft_cplx32x32_ie	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	7147 (0.143 pts/cycle)
ifft_cplx32x32_ie	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	8180 (0.125 pts/cycle)
stereo_fft_cplx16x16_ie	FFT on Stereo Complex Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	17238 (0.059 pts/cycle)
stereo_fft_cplx32x16_ie	FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=3	14059 (0.073 pts/cycle)
stereo_fft_cplx32x16_ie	FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=2	16875 (0.061 pts/cycle)
stereo_fft_cplx32x32_ie	FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	15403 (0.066 pts/cycle)
stereo_fft_cplx32x32_ie	FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	17823 (0.057 pts/cycle)
stereo_ifft_cplx16x16_ie	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	17215 (0.059 pts/cycle)
stereo_ifft_cplx32x16_ie	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=3	13717 (0.075 pts/cycle)
stereo_ifft_cplx32x16_ie	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=2	16639 (0.062 pts/cycle)
stereo_ifft_cplx32x32_ie	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	15661 (0.065 pts/cycle)
stereo_ifft_cplx32x32_ie	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	18220 (0.056 pts/cycle)
fft_cplxf_ie	FFT on Complex Data with Optimized Memory Usage (floating point data)	N=4096	61685 (0.066 pts/cycle)
ifft_cplxf_ie	Inverse FFT on Complex Data with Optimized Memory Usage (floating point data)	N=4096	62965 (0.065 pts/cycle)
stereo_fft_cplxf_ie	FFT on Stereo Complex Data with Optimized Memory Usage (floating point data)	N=4096	114931 (0.036 pts/cycle)
stereo_ifft_cplxf_ie	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (floating point data)	N=4096	116976 (0.035 pts/cycle)
Real FFT with Optimized Memory			
fft_real16x16_ie	FFT on Real Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	6337 (0.162 pts/cycle)
fft_real32x16_ie	FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=3	5676 (0.180 pts/cycle)
fft_real32x16_ie	FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=2	6155 (0.166 pts/cycle)
fft_real32x32_ie	FFT on Real Data with Optimized Memory Usage	N=1024,	4786 (0.214 pts/cycle)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
	(32-bit input/outputs, 32-bit twiddles)	scaling=3	
fft_real32x32_ie	FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	5979 (0.171 pts/cycle)
ifft_real16x16_ie	Inverse FFT on Real Data with Optimized Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	6605 (0.155 pts/cycle)
ifft_real32x16_ie	Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=3	5887 (0.174 pts/cycle)
ifft_real32x16_ie	Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=2	7343 (0.139 pts/cycle)
ifft_real32x32_ie	Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	4829 (0.212 pts/cycle)
ifft_real32x32_ie	Inverse FFT on Real Data with Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	5940 (0.172 pts/cycle)
fft_realf_ie	FFT on Real Data with Optimized Memory Usage (floating point data)	N=4096	31340 (0.131 pts/cycle)
ifft_realf_ie	Inverse FFT on Real Data with Optimized Memory Usage (floating point data)	N=4096	31403 (0.130 pts/cycle)
DCT			
dct_32x16	Discrete Cosine Transform, Type II (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	152 (cycles)
dct_32x32	Discrete Cosine Transform, Type II (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	176 (cycles)
dct_16x16	Discrete Cosine Transform, Type II (16-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	214 (cycles)
dct4_32x16	Discrete Cosine Transform, Type IV (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	234 (cycles)
dct4_32x32	Discrete Cosine Transform, Type IV (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	263 (cycles)
mdct_32x16	Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	328 (cycles)
mdct_32x32	Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	360 (cycles)
imdct_32x16	Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 16-bit twiddles)	N=32, scalingOpt=3	334 (cycles)
imdct_32x32	Inverse Modified Discrete Cosine Transform (32-bit input/outputs, 32-bit twiddles)	N=32, scalingOpt=3	364 (cycles)
dct2d_8x16	2-D Discrete Cosine Transform (8-bit unsigned input, 16-bit signed output)	N=8, L=1024, scalingOpt=0	263180 (257.0 cycles/block)
idct2d_16x8	2-D Inverse Discrete Cosine Transform (16-bit signed input, 8-bit unsigned output)	N=8, L=1024, scalingOpt=0	259087 (253.0 cycles/block)
dctf	Discrete Cosine Transform, Type II (floating point data)	N=64	470 (cycles)
FFT power spectrum functions			
fft_spectrum16x32	FFT Power Spectrum (complex 16-bit data)	N=1024[mode=0 bexp=-1]	9873 (0.10 pts/cycle)
fft_spectrum32x32	FFT Power Spectrum (complex 32-bit data)	N=1024[mode=0 bexp=-1]	12459 (0.08 pts/cycle)
fft_spectrumf	FFT Power Spectrum (complex floating-point data, single precision)	N=1024[mode=0]	18256 (0.06 pts/cycle)
MFCC features extraction			
logmel32x32_process	Compute log mel filterbank energies (32-bit fixed-point input/output data)	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	2765 (cycles per STFT hop)
logmel32x32_process	Compute log mel filterbank energies (32-bit fixed-point input/output data)	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	3429 (cycles per STFT hop)
mfcc32x32_process	Compute Mel-Frequency Cepstrum Coefficients (32-bit fixed-point input/output data)	Fs: 16000; fftSize: 512; Win: 25 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	7569 (cycles per STFT hop)
mfcc32x32_process	Compute Mel-Frequency Cepstrum Coefficients (32-bit fixed-point input/output data)	Fs: 16000; fftSize: 512;	7493 (cycles per STFT hop)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
		Win: 16 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	
logmelf_process	Compute log mel filterbank energies (single precision floating-point input/output data)	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	3913 (cycles per STFT hop)
logmelf_process	Compute log mel filterbank energies (single precision floating-point input/output data)	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	4907 (cycles per STFT hop)
mfccf_process	Compute Mel-Frequency Cepstrum Coefficients (single precision floating-point input/output data)	Fs: 16000; fftSize: 512; Win: 25 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	10314 (cycles per STFT hop)
mfccf_process	Compute Mel-Frequency Cepstrum Coefficients (single precision floating-point input/output data)	Fs: 16000; fftSize: 512; Win: 16 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	9633 (cycles per STFT hop)
image processing functions			
image rotation			
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	SQCIF(128x96) 0 degrees	8918 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	SQCIF(128x96) 90 degrees	22230 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	SQCIF(128x96) 45 degrees	201250 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	QCIF(176x144) 0 degrees	15326 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	QCIF(176x144) 90 degrees	44503 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	QCIF(176x144) 45 degrees	393901 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	CIF(352x288) 0 degrees	45622 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	CIF(352x288) 90 degrees	171223 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	CIF(352x288) 45 degrees	1457764 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	QVGA(320x240) 0 degrees	35833 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	QVGA(320x240) 90 degrees	130232 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	QVGA(320x240) 45 degrees	1121136 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	VGA(640x480) 0 degrees	116979 (cycles)
imgrotate_gu8_process	Image rotation (8-bit unsigned grayscale)	VGA(640x480) 90 degrees	509912 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	SQCIF(128x96) 0 degrees	2638 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	SQCIF(128x96) 90 degrees	5788 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	SQCIF(128x96) 45 degrees	187160 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	QCIF(176x144) 0 degrees	4750 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	QCIF(176x144) 90 degrees	10654 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	QCIF(176x144) 45 degrees	364614 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	CIF(352x288) 0 degrees	15694 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	CIF(352x288) 90 degrees	43216 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	CIF(352x288) 45 degrees	1350220 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	QVGA(320x240) 0 degrees	12142 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	QVGA(320x240) 90 degrees	32919 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	QVGA(320x240) 45 degrees	1037981 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	VGA(640x480) 0 degrees	43342 (cycles)
imgfastrotate_gu8_process	Image rotation, fast (8-bit unsigned grayscale)	VGA(640x480) 90 degrees	128069 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	SQCIF(128x96) 0 degrees	8919 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	SQCIF(128x96) 90 degrees	22230 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	SQCIF(128x96) 45 degrees	202234 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	QCIF(176x144) 0 degrees	15324 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	QCIF(176x144) 90 degrees	44502 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	QCIF(176x144) 45 degrees	397271 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	CIF(352x288) 0 degrees	45621 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	CIF(352x288) 90 degrees	171223 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	CIF(352x288) 45 degrees	1471423 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	QVGA(320x240) 0 degrees	35833 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	QVGA(320x240) 90 degrees	130230 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	QVGA(320x240) 45 degrees	1130719 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	VGA(640x480) 0 degrees	116980 (cycles)
imgrotate_gs8_process	Image rotation (8-bit signed grayscale)	VGA(640x480) 90 degrees	509910 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	SQCIF(128x96) 0 degrees	2638 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	SQCIF(128x96) 90 degrees	5788 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	SQCIF(128x96) 45 degrees	189607 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	QCIF(176x144) 0 degrees	4750 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	QCIF(176x144) 90 degrees	10653 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	QCIF(176x144) 45 degrees	369840 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	CIF(352x288) 0 degrees	15694 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	CIF(352x288) 90 degrees	43214 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	CIF(352x288) 45 degrees	1374550 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	QVGA(320x240) 0 degrees	12142 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	QVGA(320x240) 90 degrees	32916 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	QVGA(320x240) 45 degrees	1055783 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	VGA(640x480) 0 degrees	43343 (cycles)
imgfastrotate_gs8_process	Image rotation, fast (8-bit signed grayscale)	VGA(640x480) 90 degrees	128066 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	SQCIF(128x96) 0 degrees	5545 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	SQCIF(128x96) 90 degrees	12258 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	SQCIF(128x96) 45 degrees	189834 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	QCIF(176x144) 0 degrees	10405 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	QCIF(176x144) 90 degrees	24057 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	QCIF(176x144) 45 degrees	361130 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	CIF(352x288) 0 degrees	36507 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	CIF(352x288) 90 degrees	91520 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	CIF(352x288) 45 degrees	1343435 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	QVGA(320x240) 0 degrees	28045 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	QVGA(320x240) 90 degrees	70014 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	QVGA(320x240) 45 degrees	1026351 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	VGA(640x480) 0 degrees	103945 (cycles)
imgrotate_gs16_process	Image rotation (16-bit grayscale)	VGA(640x480) 90 degrees	271876 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	SQCIF(128x96) 0 degrees	4076 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	SQCIF(128x96) 90 degrees	5175 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	SQCIF(128x96) 45 degrees	178421 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	QCIF(176x144) 0 degrees	7772 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	QCIF(176x144) 90 degrees	9833 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	QCIF(176x144) 45 degrees	345079 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	CIF(352x288) 0 degrees	28077 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	CIF(352x288) 90 degrees	35329 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	CIF(352x288) 45 degrees	1275474 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	QVGA(320x240) 0 degrees	21500 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	QVGA(320x240) 90 degrees	27070 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	QVGA(320x240) 45 degrees	982647 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	VGA(640x480) 0 degrees	81260 (cycles)
imgfastrotate_gs16_process	Image rotation, fast (16-bit grayscale)	VGA(640x480) 90 degrees	101965 (cycles)
image resize			
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	SQCIF(128x96)->QCIF(176x144), nearest	58272 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	QCIF(176x144)->SQCIF(128x96), nearest	38988 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	CIF (352x288)->SQCIF(128x96), nearest	56195 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	QVGA(320x240)->SQCIF(128x96), nearest	53077 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	VGA (640x480)->SQCIF(128x96)	84276 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
		, nearest	
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	SQCIF(128x96)->QCIF(176x144), nearest	28720 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	QCIF(176x144)->SQCIF(128x96), nearest	19011 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	CIF (352x288)->SQCIF(128x96), nearest	28324 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	QVGA(320x240)->SQCIF(128x96), nearest	26693 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	VGA (640x480)->SQCIF(128x96), nearest	43012 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	SQCIF(128x96)->QCIF(176x144), nearest	58272 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	QCIF(176x144)->SQCIF(128x96), nearest	38987 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	CIF (352x288)->SQCIF(128x96), nearest	56194 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	QVGA(320x240)->SQCIF(128x96), nearest	53077 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	VGA (640x480)->SQCIF(128x96), nearest	84274 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	SQCIF(128x96)->QCIF(176x144), nearest	28721 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	QCIF(176x144)->SQCIF(128x96), nearest	19011 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	CIF (352x288)->SQCIF(128x96), nearest	28324 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	QVGA(320x240)->SQCIF(128x96), nearest	26691 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	VGA (640x480)->SQCIF(128x96), nearest	43012 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	SQCIF(128x96)->QCIF(176x144), nearest	38216 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	QCIF(176x144)->SQCIF(128x96), nearest	27820 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	CIF (352x288)->SQCIF(128x96), nearest	45243 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	QVGA(320x240)->SQCIF(128x96), nearest	42076 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	VGA (640x480)->SQCIF(128x96), nearest	73756 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	SQCIF(128x96)->QCIF(176x144), nearest	30680 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	QCIF(176x144)->SQCIF(128x96), nearest	20375 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	CIF (352x288)->SQCIF(128x96), nearest	31728 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	QVGA(320x240)->SQCIF(128x96), nearest	29351 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	VGA (640x480)->SQCIF(128x96), nearest	49680 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	SQCIF(128x96)->QCIF(176x144), bilinear	84453 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	QCIF(176x144)->SQCIF(128x96), bilinear	99951 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	CIF (352x288)->SQCIF(128x96), bilinear	211297 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	QVGA(320x240)->SQCIF(128x96), bilinear	179592 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	VGA (640x480)->SQCIF(128x96), bilinear	500133 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	SQCIF(128x96)->QCIF(176x144), bilinear	74145 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	QCIF(176x144)->SQCIF(128x96), bilinear	90952 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	CIF (352x288)->SQCIF(128x96), bilinear	197519 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	QVGA(320x240)->SQCIF(128x96), bilinear	167439 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	VGA (640x480)->SQCIF(128x96), bilinear	479887 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	SQCIF(128x96)->QCIF(176x144), bilinear	86879 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	QCIF(176x144)->SQCIF(128x96), bilinear	101681 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	CIF (352x288)->SQCIF(128x96), bilinear	213746 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	QVGA(320x240)->SQCIF(128x96), bilinear	181811 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	VGA (640x480)->SQCIF(128x96), bilinear	503542 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	SQCIF(128x96)->QCIF(176x144), bilinear	75635 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	QCIF(176x144)->SQCIF(128x96), bilinear	91842 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	CIF (352x288)->SQCIF(128x96), bilinear	198481 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	QVGA(320x240)->SQCIF(128x96), bilinear	168304 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	VGA (640x480)->SQCIF(128x96), bilinear	481233 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	SQCIF(128x96)->QCIF(176x144), bilinear	72885 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	QCIF(176x144)->SQCIF(128x96), bilinear	95239 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	CIF (352x288)->SQCIF(128x96), bilinear	217860 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	QVGA(320x240)->SQCIF(128x96), bilinear	182549 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	VGA (640x480)->SQCIF(128x96), bilinear	541317 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	SQCIF(128x96)->QCIF(176x144)	70739 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
		, bilinear	
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	QCIF(176x144)->SQCIF(128x96), bilinear	92849 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	CIF (352x288)->SQCIF(128x96), bilinear	213744 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	QVGA(320x240)->SQCIF(128x96), bilinear	179007 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	VGA (640x480)->SQCIF(128x96), bilinear	534896 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	SQCIF(128x96)->QCIF(176x144), bicubic	112319 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	QCIF(176x144)->SQCIF(128x96), bicubic	134518 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	CIF (352x288)->SQCIF(128x96), bicubic	309605 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	QVGA(320x240)->SQCIF(128x96), bicubic	260354 (cycles)
imgresize_gu8_process	Image resize (8-bit unsigned grayscale)	VGA (640x480)->SQCIF(128x96), bicubic	792560 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	SQCIF(128x96)->QCIF(176x144), bicubic	102010 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	QCIF(176x144)->SQCIF(128x96), bicubic	125520 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	CIF (352x288)->SQCIF(128x96), bicubic	295827 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	QVGA(320x240)->SQCIF(128x96), bicubic	248202 (cycles)
imgfastresize_gu8_process	Image resize, fast (8-bit unsigned grayscale)	VGA (640x480)->SQCIF(128x96), bicubic	772313 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	SQCIF(128x96)->QCIF(176x144), bicubic	114747 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	QCIF(176x144)->SQCIF(128x96), bicubic	136250 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	CIF (352x288)->SQCIF(128x96), bicubic	312055 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	QVGA(320x240)->SQCIF(128x96), bicubic	262572 (cycles)
imgresize_gs8_process	Image resize (8-bit signed grayscale)	VGA (640x480)->SQCIF(128x96), bicubic	795970 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	SQCIF(128x96)->QCIF(176x144), bicubic	103501 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	QCIF(176x144)->SQCIF(128x96), bicubic	126410 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	CIF (352x288)->SQCIF(128x96), bicubic	296788 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	QVGA(320x240)->SQCIF(128x96), bicubic	249069 (cycles)
imgfastresize_gs8_process	Image resize, fast (8-bit signed grayscale)	VGA (640x480)->SQCIF(128x96), bicubic	773660 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	SQCIF(128x96)->QCIF(176x144), bicubic	100753 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
imgresize_gs16_process	Image resize (16-bit grayscale)	QCIF(176x144)->SQCIF(128x96), bicubic	129807 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	CIF (352x288)->SQCIF(128x96), bicubic	316168 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	QVGA(320x240)->SQCIF(128x96), bicubic	263312 (cycles)
imgresize_gs16_process	Image resize (16-bit grayscale)	VGA (640x480)->SQCIF(128x96), bicubic	833744 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	SQCIF(128x96)->QCIF(176x144), bicubic	98603 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	QCIF(176x144)->SQCIF(128x96), bicubic	127418 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	CIF (352x288)->SQCIF(128x96), bicubic	312051 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	QVGA(320x240)->SQCIF(128x96), bicubic	259773 (cycles)
imgfastresize_gs16_process	Image resize, fast (16-bit grayscale)	VGA (640x480)->SQCIF(128x96), bicubic	827324 (cycles)
miscellaneous image processing			
imghist_gu8	Image histogram (8-bit unsigned grayscale)	SQCIF(128x96)	52146 (cycles)
imghist_gu8	Image histogram (8-bit unsigned grayscale)	QCIF(176x144)	100577 (cycles)
imghist_gu8	Image histogram (8-bit unsigned grayscale)	CIF (352x288)	365682 (cycles)
imghist_gu8	Image histogram (8-bit unsigned grayscale)	QVGA(320x240)	279809 (cycles)
imghist_gu8	Image histogram (8-bit unsigned grayscale)	VGA (640x480)	1058612 (cycles)
imgfasthist_gu8	Image histogram, fast (8-bit unsigned grayscale)	SQCIF(128x96)	44380 (cycles)
imgfasthist_gu8	Image histogram, fast (8-bit unsigned grayscale)	QCIF(176x144)	88925 (cycles)
imgfasthist_gu8	Image histogram, fast (8-bit unsigned grayscale)	CIF (352x288)	342365 (cycles)
imgfasthist_gu8	Image histogram, fast (8-bit unsigned grayscale)	QVGA(320x240)	260381 (cycles)
imgfasthist_gu8	Image histogram, fast (8-bit unsigned grayscale)	VGA (640x480)	1019741 (cycles)
imghist_gs8	Image histogram (8-bit signed grayscale)	SQCIF(128x96)	54335 (cycles)
imghist_gs8	Image histogram (8-bit signed grayscale)	QCIF(176x144)	103856 (cycles)
imghist_gs8	Image histogram (8-bit signed grayscale)	CIF (352x288)	372238 (cycles)
imghist_gs8	Image histogram (8-bit signed grayscale)	QVGA(320x240)	285273 (cycles)
imghist_gs8	Image histogram (8-bit signed grayscale)	VGA (640x480)	1069533 (cycles)
imgfasthist_gs8	Image histogram, fast (8-bit signed grayscale)	SQCIF(128x96)	45235 (cycles)
imgfasthist_gs8	Image histogram, fast (8-bit signed grayscale)	QCIF(176x144)	90210 (cycles)
imgfasthist_gs8	Image histogram, fast (8-bit signed grayscale)	CIF (352x288)	344947 (cycles)
imgfasthist_gs8	Image histogram, fast (8-bit signed grayscale)	QVGA(320x240)	262530 (cycles)
imgfasthist_gs8	Image histogram, fast (8-bit signed grayscale)	VGA (640x480)	1024051 (cycles)
imghist_gs16	Image histogram (16-bit grayscale)	SQCIF(128x96)	44034 (cycles)
imghist_gs16	Image histogram (16-bit grayscale)	QCIF(176x144)	88395 (cycles)
imghist_gs16	Image histogram (16-bit grayscale)	CIF (352x288)	341295 (cycles)
imghist_gs16	Image histogram (16-bit grayscale)	QVGA(320x240)	259490 (cycles)
imghist_gs16	Image histogram (16-bit grayscale)	VGA (640x480)	1017951 (cycles)
imgfasthist_gs16	Image histogram, fast (16-bit grayscale)	SQCIF(128x96)	42946 (cycles)
imgfasthist_gs16	Image histogram, fast (16-bit grayscale)	QCIF(176x144)	85906 (cycles)
imgfasthist_gs16	Image histogram, fast (16-bit grayscale)	CIF (352x288)	329986 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
imgfasthist_gs16	Image histogram, fast (16-bit grayscale)	QVGA(320x240)	251027 (cycles)
imgfasthist_gs16	Image histogram, fast (16-bit grayscale)	VGA (640x480)	981827 (cycles)
imgnorm_gu8	Image normalization (8-bit unsigned grayscale)	SQCIF(128x96)	39612 (cycles)
imgnorm_gu8	Image normalization (8-bit unsigned grayscale)	QCIF(176x144)	71904 (cycles)
imgnorm_gu8	Image normalization (8-bit unsigned grayscale)	CIF (352x288)	235596 (cycles)
imgnorm_gu8	Image normalization (8-bit unsigned grayscale)	QVGA(320x240)	182424 (cycles)
imgnorm_gu8	Image normalization (8-bit unsigned grayscale)	VGA (640x480)	643164 (cycles)
imgfastnorm_gu8	Image normalization, fast (8-bit unsigned grayscale)	SQCIF(128x96)	25136 (cycles)
imgfastnorm_gu8	Image normalization, fast (8-bit unsigned grayscale)	QCIF(176x144)	49328 (cycles)
imgfastnorm_gu8	Image normalization, fast (8-bit unsigned grayscale)	CIF (352x288)	184110 (cycles)
imgfastnorm_gu8	Image normalization, fast (8-bit unsigned grayscale)	QVGA(320x240)	140478 (cycles)
imgfastnorm_gu8	Image normalization, fast (8-bit unsigned grayscale)	VGA (640x480)	540078 (cycles)
imgnorm_gs8	Image normalization (8-bit signed grayscale)	SQCIF(128x96)	35100 (cycles)
imgnorm_gs8	Image normalization (8-bit signed grayscale)	QCIF(176x144)	63840 (cycles)
imgnorm_gs8	Image normalization (8-bit signed grayscale)	CIF (352x288)	209964 (cycles)
imgnorm_gs8	Image normalization (8-bit signed grayscale)	QVGA(320x240)	162500 (cycles)
imgnorm_gs8	Image normalization (8-bit signed grayscale)	VGA (640x480)	574524 (cycles)
imgfastnorm_gs8	Image normalization, fast (8-bit signed grayscale)	SQCIF(128x96)	23599 (cycles)
imgfastnorm_gs8	Image normalization, fast (8-bit signed grayscale)	QCIF(176x144)	46161 (cycles)
imgfastnorm_gs8	Image normalization, fast (8-bit signed grayscale)	CIF (352x288)	171439 (cycles)
imgfastnorm_gs8	Image normalization, fast (8-bit signed grayscale)	QVGA(320x240)	130879 (cycles)
imgfastnorm_gs8	Image normalization, fast (8-bit signed grayscale)	VGA (640x480)	501679 (cycles)
imgnorm_gs16	Image normalization (16-bit grayscale)	SQCIF(128x96)	24507 (cycles)
imgnorm_gs16	Image normalization (16-bit grayscale)	QCIF(176x144)	47955 (cycles)
imgnorm_gs16	Image normalization (16-bit grayscale)	CIF (352x288)	178204 (cycles)
imgnorm_gs16	Image normalization (16-bit grayscale)	QVGA(320x240)	136037 (cycles)
imgnorm_gs16	Image normalization (16-bit grayscale)	VGA (640x480)	521595 (cycles)
imgfastnorm_gs16	Image normalization, fast (16-bit grayscale)	SQCIF(128x96)	18533 (cycles)
imgfastnorm_gs16	Image normalization, fast (16-bit grayscale)	QCIF(176x144)	36215 (cycles)
imgfastnorm_gs16	Image normalization, fast (16-bit grayscale)	CIF (352x288)	135705 (cycles)
imgfastnorm_gs16	Image normalization, fast (16-bit grayscale)	QVGA(320x240)	103806 (cycles)
imgfastnorm_gs16	Image normalization, fast (16-bit grayscale)	VGA (640x480)	399525 (cycles)
imgnorm_gu8_nonlinear	Image normalization, nonlinear (8-bit unsigned grayscale)	SQCIF(128x96)	54500 (cycles)
imgnorm_gu8_nonlinear	Image normalization, nonlinear (8-bit unsigned grayscale)	QCIF(176x144)	105932 (cycles)
imgnorm_gu8_nonlinear	Image normalization, nonlinear (8-bit unsigned grayscale)	CIF (352x288)	389253 (cycles)
imgnorm_gu8_nonlinear	Image normalization, nonlinear (8-bit unsigned grayscale)	QVGA(320x240)	297500 (cycles)
imgnorm_gu8_nonlinear	Image normalization, nonlinear (8-bit unsigned grayscale)	VGA (640x480)	1132580 (cycles)
imgfastnorm_gu8_nonlinear	Image normalization, fast, nonlinear (8-bit unsigned grayscale)	SQCIF(128x96)	49264 (cycles)
imgfastnorm_gu8_nonlinear	Image normalization, fast, nonlinear (8-bit unsigned grayscale)	QCIF(176x144)	98081 (cycles)
imgfastnorm_gu8_nonlinear	Image normalization, fast, nonlinear (8-bit unsigned grayscale)	CIF (352x288)	373554 (cycles)
imgfastnorm_gu8_nonlinear	Image normalization, fast, nonlinear (8-bit unsigned grayscale)	QVGA(320x240)	284417 (cycles)
imgfastnorm_gu8_nonlinear	Image normalization, fast, nonlinear (8-bit unsigned grayscale)	VGA (640x480)	1106418 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
imgnorm_gs8_nonlinear	Image normalization, nonlinear (8-bit signed grayscale)	SQCIF(128x96)	58100 (cycles)
imgnorm_gs8_nonlinear	Image normalization, nonlinear (8-bit signed grayscale)	QCIF(176x144)	113056 (cycles)
imgnorm_gs8_nonlinear	Image normalization, nonlinear (8-bit signed grayscale)	CIF (352x288)	416323 (cycles)
imgnorm_gs8_nonlinear	Image normalization, nonlinear (8-bit signed grayscale)	QVGA(320x240)	318012 (cycles)
imgnorm_gs8_nonlinear	Image normalization, nonlinear (8-bit signed grayscale)	VGA (640x480)	1212020 (cycles)
imgfastnorm_gs8_nonlinear	Image normalization, fast, nonlinear (8-bit signed grayscale)	SQCIF(128x96)	48786 (cycles)
imgfastnorm_gs8_nonlinear	Image normalization, fast, nonlinear (8-bit signed grayscale)	QCIF(176x144)	97361 (cycles)
imgfastnorm_gs8_nonlinear	Image normalization, fast, nonlinear (8-bit signed grayscale)	CIF (352x288)	372115 (cycles)
imgfastnorm_gs8_nonlinear	Image normalization, fast, nonlinear (8-bit signed grayscale)	QVGA(320x240)	283217 (cycles)
imgfastnorm_gs8_nonlinear	Image normalization, fast, nonlinear (8-bit signed grayscale)	VGA (640x480)	1104019 (cycles)
imgnorm_gs16_nonlinear	Image normalization, nonlinear (16-bit grayscale)	SQCIF(128x96)	38989 (cycles)
imgnorm_gs16_nonlinear	Image normalization, nonlinear (16-bit grayscale)	QCIF(176x144)	77485 (cycles)
imgnorm_gs16_nonlinear	Image normalization, nonlinear (16-bit grayscale)	CIF (352x288)	294351 (cycles)
imgnorm_gs16_nonlinear	Image normalization, nonlinear (16-bit grayscale)	QVGA(320x240)	224173 (cycles)
imgnorm_gs16_nonlinear	Image normalization, nonlinear (16-bit grayscale)	VGA (640x480)	870733 (cycles)
imgfastnorm_gs16_nonlinear	Image normalization, fast, nonlinear (16-bit grayscale)	SQCIF(128x96)	35534 (cycles)
imgfastnorm_gs16_nonlinear	Image normalization, fast, nonlinear (16-bit grayscale)	QCIF(176x144)	70575 (cycles)
imgfastnorm_gs16_nonlinear	Image normalization, fast, nonlinear (16-bit grayscale)	CIF (352x288)	267854 (cycles)
imgfastnorm_gs16_nonlinear	Image normalization, fast, nonlinear (16-bit grayscale)	QVGA(320x240)	204015 (cycles)
imgfastnorm_gs16_nonlinear	Image normalization, fast, nonlinear (16-bit grayscale)	VGA (640x480)	792014 (cycles)
imginterleave	Image interleave (8-bit)	CIF (352x288)	401269 (cycles)
imginterleave16	Image interleave (16-bit)	CIF (352x288)	158708 (cycles)
imgfastinterleave	Image interleave, fast (8-bit)	CIF (352x288)	194705 (cycles)
imgfastinterleave16	Image interleave, fast (16-bit)	CIF (352x288)	146611 (cycles)
imgdeinterleave	Image deinterleave (8-bit)	CIF (352x288)	409817 (cycles)
imgdeinterleave16	Image deinterleave (16-bit)	CIF (352x288)	160493 (cycles)
imgfastdeinterleave	Image deinterleave, fast (8-bit)	CIF(352x288)	106291 (cycles)
imgfastdeinterleave16	Image deinterleave, fast (16-bit)	CIF (352x288)	144883 (cycles)
imgconvert_rgbyuv	Image RGB->YUV conversion (8-bit unsigned)	CIF (352x288)	985240 (cycles)
imgconvert_rgbyuv16	Image RGB->YUV conversion (16-bit signed)	CIF (352x288)	609038 (cycles)
imgfastconvert_rgbyuv	Image RGB->YUV conversion, fast (8-bit unsigned)	CIF (352x288)	571166 (cycles)
imgfastconvert_rgbyuv16	Image RGB->YUV conversion, fast (16-bit signed)	CIF (352x288)	390007 (cycles)
imgconvert_yuvrgb	Image YUV->RGB conversion (8-bit unsigned)	CIF (352x288)	1032940 (cycles)
imgconvert_yuvrgb16	Image YUV->RGB conversion (16-bit signed)	CIF (352x288)	668255 (cycles)
imgfastconvert_yuvrgb	Image YUV->RGB conversion, fast (8-bit unsigned)	CIF (352x288)	556171 (cycles)
imgfastconvert_yuvrgb16	Image YUV->RGB conversion, fast (16-bit signed)	CIF (352x288)	390573 (cycles)
imgpad_gu8	Image padding/cropping (8-bit unsigned grayscale)	padding, SQCIF(128x96)->QCIF(176x144)	30637 (cycles)
imgpad_gs8	Image padding/cropping (8-bit signed grayscale)	padding, SQCIF(128x96)->QCIF(176x144)	30677 (cycles)
imgpad_gs16	Image padding/cropping (16-bit grayscale)	padding, SQCIF(128x96)-	15102 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
		>QCIF(176x144)	
imgfastpad_gu8	Image padding/cropping, fast (8-bit unsigned grayscale)	padding, SQCIF(128x96)->QCIF(176x144)	7709 (cycles)
imgfastpad_gs8	Image padding/cropping, fast (8-bit signed grayscale)	padding, SQCIF(128x96)->QCIF(176x144)	7744 (cycles)
imgfastpad_gs16	Image padding/cropping, fast (16-bit grayscale)	padding, SQCIF(128x96)->QCIF(176x144)	11754 (cycles)
imgpad_gu8	Image padding/cropping (8-bit unsigned grayscale)	cropping, QCIF(176x144)->SQCIF(128x96)	18260 (cycles)
imgpad_gu8	Image padding/cropping (8-bit unsigned grayscale)	cropping, CIF (352x288)->SQCIF(128x96)	17493 (cycles)
imgpad_gu8	Image padding/cropping (8-bit unsigned grayscale)	cropping, CIF (352x288)->QCIF(176x144)	29373 (cycles)
imgpad_gu8	Image padding/cropping (8-bit unsigned grayscale)	cropping, VGA (640x480)->QCIF(176x144)	34052 (cycles)
imgpad_gs8	Image padding/cropping (8-bit signed grayscale)	cropping, QCIF(176x144)->SQCIF(128x96)	18300 (cycles)
imgpad_gs8	Image padding/cropping (8-bit signed grayscale)	cropping, CIF (352x288)->SQCIF(128x96)	17529 (cycles)
imgpad_gs8	Image padding/cropping (8-bit signed grayscale)	cropping, CIF (352x288)->QCIF(176x144)	29412 (cycles)
imgpad_gs8	Image padding/cropping (8-bit signed grayscale)	cropping, VGA (640x480)->QCIF(176x144)	34089 (cycles)
imgpad_gs16	Image padding/cropping (16-bit grayscale)	cropping, QCIF(176x144)->SQCIF(128x96)	8754 (cycles)
imgpad_gs16	Image padding/cropping (16-bit grayscale)	cropping, CIF (352x288)->SQCIF(128x96)	9098 (cycles)
imgpad_gs16	Image padding/cropping (16-bit grayscale)	cropping, CIF (352x288)->QCIF(176x144)	14898 (cycles)
imgpad_gs16	Image padding/cropping (16-bit grayscale)	cropping, VGA (640x480)->QCIF(176x144)	17979 (cycles)
imgfastpad_gu8	Image padding/cropping, fast (8-bit unsigned grayscale)	cropping, QCIF(176x144)->SQCIF(128x96)	4671 (cycles)
imgfastpad_gu8	Image padding/cropping, fast (8-bit unsigned grayscale)	cropping, CIF (352x288)->SQCIF(128x96)	4734 (cycles)
imgfastpad_gu8	Image padding/cropping, fast (8-bit unsigned grayscale)	cropping, CIF (352x288)->QCIF(176x144)	7740 (cycles)
imgfastpad_gu8	Image padding/cropping, fast (8-bit unsigned grayscale)	cropping, VGA (640x480)->QCIF(176x144)	8975 (cycles)
imgfastpad_gs8	Image padding/cropping, fast (8-bit signed grayscale)	cropping, QCIF(176x144)->SQCIF(128x96)	4707 (cycles)
imgfastpad_gs8	Image padding/cropping, fast (8-bit signed grayscale)	cropping, CIF (352x288)->SQCIF(128x96)	4773 (cycles)
imgfastpad_gs8	Image padding/cropping, fast (8-bit signed grayscale)	cropping, CIF (352x288)->QCIF(176x144)	7773 (cycles)
imgfastpad_gs8	Image padding/cropping, fast (8-bit signed grayscale)	cropping, VGA (640x480)->QCIF(176x144)	9014 (cycles)
imgfastpad_gs16	Image padding/cropping, fast (16-bit grayscale)	cropping, QCIF(176x144)->SQCIF(128x96)	6611 (cycles)
imgfastpad_gs16	Image padding/cropping, fast (16-bit grayscale)	cropping, CIF (352x288)->SQCIF(128x96)	7469 (cycles)

Function Name	Description	Invocation parameters	Cycles Measurements
			RI2020.4, HiFi4 with VFPU, bd5
imgfastpad_gs16	Image padding/cropping, fast (16-bit grayscale)	cropping, CIF (352x288)->QCIF(176x144)	11997 (cycles)
imgfastpad_gs16	Image padding/cropping, fast (16-bit grayscale)	cropping, VGA (640x480)->QCIF(176x144)	15063 (cycles)
2D FFT for image data			
imgfft_gu8	Image 2D FFT (8-bit unsigned grayscale)	64x64	63021 (cycles)
imgfft_gu8	Image 2D FFT (8-bit unsigned grayscale)	512x512	3575264 (cycles)
imgfft_gu8	Image 2D FFT (8-bit unsigned grayscale)	CIF (352x288)	1888859 (cycles)
imgfft_gu8	Image 2D FFT (8-bit unsigned grayscale)	VGA (640x480)	4740125 (cycles)
imgfft_gs8	Image 2D FFT (8-bit signed grayscale)	64x64	63726 (cycles)
imgfft_gs8	Image 2D FFT (8-bit signed grayscale)	512x512	3603169 (cycles)
imgfft_gs8	Image 2D FFT (8-bit signed grayscale)	CIF (352x288)	1900334 (cycles)
imgfft_gs8	Image 2D FFT (8-bit signed grayscale)	VGA (640x480)	4772607 (cycles)
imgfft_gs16	Image 2D FFT (16-bit grayscale)	64x64	62955 (cycles)
imgfft_gs16	Image 2D FFT (16-bit grayscale)	512x512	3619294 (cycles)
imgfft_gs16	Image 2D FFT (16-bit grayscale)	CIF (352x288)	1904986 (cycles)
imgfft_gs16	Image 2D FFT (16-bit grayscale)	VGA (640x480)	4792925 (cycles)
imgifft_gu8	Image 2D IFFT (8-bit unsigned grayscale)	64x64	66970 (cycles)
imgifft_gu8	Image 2D IFFT (8-bit unsigned grayscale)	512x512	3651001 (cycles)
imgifft_gu8	Image 2D IFFT (8-bit unsigned grayscale)	CIF (352x288)	1930247 (cycles)
imgifft_gu8	Image 2D IFFT (8-bit unsigned grayscale)	VGA (640x480)	4842634 (cycles)
imgifft_gs8	Image 2D IFFT (8-bit signed grayscale)	64x64	66652 (cycles)
imgifft_gs8	Image 2D IFFT (8-bit signed grayscale)	512x512	3677118 (cycles)
imgifft_gs8	Image 2D IFFT (8-bit signed grayscale)	CIF (352x288)	1939178 (cycles)
imgifft_gs8	Image 2D IFFT (8-bit signed grayscale)	VGA (640x480)	4874797 (cycles)
imgifft_gs16	Image 2D IFFT (16-bit grayscale)	64x64	64471 (cycles)
imgifft_gs16	Image 2D IFFT (16-bit grayscale)	512x512	3545015 (cycles)
imgifft_gs16	Image 2D IFFT (16-bit grayscale)	CIF (352x288)	1887909 (cycles)
imgifft_gs16	Image 2D IFFT (16-bit grayscale)	VGA (640x480)	4720232 (cycles)

Functions Performance

This chapter collects detailed performance data for all library functions.

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
FIR Filters		
Filtering		
bkfir16x16_process	N: 80; M: 256	2909 (7.0 MACs/cycle)
bkfir16x16_process	N: 2048; M: 8	11027 (1.5 MACs/cycle)
bkfir16x16_process	N: 160; M: 8	880 (1.5 MACs/cycle)
bkfir16x16_process	N: 160; M: 16	993 (2.6 MACs/cycle)
bkfir16x16_process	N: 1024; M: 32	8390 (3.9 MACs/cycle)
bkfira16x16_process	N: 80; M: 256	2981 (6.9 MACs/cycle)
bkfira16x16_process	N: 2048; M: 8	12327 (1.3 MACs/cycle)
bkfira16x16_process	N: 160; M: 8	999 (1.3 MACs/cycle)
bkfira16x16_process	N: 160; M: 16	1118 (2.3 MACs/cycle)
bkfira16x16_process	N: 1024; M: 32	9051 (3.6 MACs/cycle)
bkfir24x24p_process	N: 80; M: 256	5438 (3.8 MACs/cycle)
bkfir24x24p_process	N: 80; M: 512	10559 (3.9 MACs/cycle)
bkfir24x24p_process	N: 2048; M: 4	11543 (0.7 MACs/cycle)
bkfir24x24p_process	N: 2048; M: 8	11544 (1.4 MACs/cycle)
bkfir24x24p_process	N: 160; M: 8	921 (1.4 MACs/cycle)
bkfir24x24p_process	N: 160; M: 16	1263 (2.0 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
bkfir24x24p_process	N: 80; M: 16	639 (2.0 MACs/cycle)
bkfir24x24p_process	N: 512; M: 32	6045 (2.7 MACs/cycle)
bkfir24x24p_process	N: 1024; M: 32	12075 (2.7 MACs/cycle)
bkfir32x16_process	N: 80; M: 256	3628 (5.6 MACs/cycle)
bkfir32x16_process	N: 80; M: 512	6829 (6.0 MACs/cycle)
bkfir32x16_process	N: 2048; M: 4	7455 (1.1 MACs/cycle)
bkfir32x16_process	N: 2048; M: 8	9764 (1.7 MACs/cycle)
bkfir32x16_process	N: 160; M: 8	796 (1.6 MACs/cycle)
bkfir32x16_process	N: 160; M: 16	996 (2.6 MACs/cycle)
bkfir32x16_process	N: 80; M: 16	516 (2.5 MACs/cycle)
bkfir32x16_process	N: 512; M: 32	4388 (3.7 MACs/cycle)
bkfir32x16_process	N: 1024; M: 32	8742 (3.7 MACs/cycle)
bkfir32x32_process	N: 80; M: 256	5396 (3.8 MACs/cycle)
bkfir32x32_process	N: 80; M: 512	10518 (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	837 (1.5 MACs/cycle)
bkfir32x32_process	N: 160; M: 16	1176 (2.2 MACs/cycle)
bkfir32x32_process	N: 80; M: 16	596 (2.1 MACs/cycle)
bkfir32x32_process	N: 512; M: 32	5777 (2.8 MACs/cycle)
bkfir32x32_process	N: 1024; M: 32	11536 (2.8 MACs/cycle)
bkfir32x32ep_process	N: 80; M: 256	5580 (3.7 MACs/cycle)
bkfir32x32ep_process	N: 80; M: 512	10700 (3.8 MACs/cycle)
bkfir32x32ep_process	N: 2048; M: 4	12820 (0.6 MACs/cycle)
bkfir32x32ep_process	N: 2048; M: 8	15380 (1.1 MACs/cycle)
bkfir32x32ep_process	N: 160; M: 8	1221 (1.0 MACs/cycle)
bkfir32x32ep_process	N: 160; M: 16	1540 (1.7 MACs/cycle)
bkfir32x32ep_process	N: 80; M: 16	780 (1.6 MACs/cycle)
bkfir32x32ep_process	N: 512; M: 32	6933 (2.4 MACs/cycle)
bkfir32x32ep_process	N: 1024; M: 32	13844 (2.4 MACs/cycle)
bkfira32x16_process	N: 80; M: 256	4259 (4.8 MACs/cycle)
bkfira32x16_process	N: 80; M: 512	8099 (5.1 MACs/cycle)
bkfira32x16_process	N: 2048; M: 4	11214 (0.7 MACs/cycle)
bkfira32x16_process	N: 2048; M: 8	13086 (1.3 MACs/cycle)
bkfira32x16_process	N: 160; M: 8	1049 (1.2 MACs/cycle)
bkfira32x16_process	N: 160; M: 16	1289 (2.0 MACs/cycle)
bkfira32x16_process	N: 80; M: 16	659 (1.9 MACs/cycle)
bkfira32x16_process	N: 512; M: 32	5597 (2.9 MACs/cycle)
bkfira32x16_process	N: 1024; M: 32	11165 (2.9 MACs/cycle)
bkfira32x32_process	N: 80; M: 256	5608 (3.7 MACs/cycle)
bkfira32x32_process	N: 80; M: 512	10729 (3.8 MACs/cycle)
bkfira32x32_process	N: 2048; M: 4	13346 (0.6 MACs/cycle)
bkfira32x32_process	N: 2048; M: 8	15901 (1.0 MACs/cycle)
bkfira32x32_process	N: 160; M: 8	1268 (1.0 MACs/cycle)
bkfira32x32_process	N: 160; M: 16	1588 (1.6 MACs/cycle)
bkfira32x32_process	N: 80; M: 16	808 (1.6 MACs/cycle)
bkfira32x32_process	N: 512; M: 32	7068 (2.3 MACs/cycle)
bkfira32x32_process	N: 1024; M: 32	14108 (2.3 MACs/cycle)
bkfira32x32ep_process	N: 80; M: 256	5768 (3.6 MACs/cycle)
bkfira32x32ep_process	N: 80; M: 512	10889 (3.8 MACs/cycle)
bkfira32x32ep_process	N: 2048; M: 4	17437 (0.5 MACs/cycle)
bkfira32x32ep_process	N: 2048; M: 8	19997 (0.8 MACs/cycle)
bkfira32x32ep_process	N: 160; M: 8	1588 (0.8 MACs/cycle)
bkfira32x32ep_process	N: 160; M: 16	1910 (1.3 MACs/cycle)
bkfira32x32ep_process	N: 80; M: 16	970 (1.3 MACs/cycle)
bkfira32x32ep_process	N: 512; M: 32	8094 (2.0 MACs/cycle)
bkfira32x32ep_process	N: 1024; M: 32	16156 (2.0 MACs/cycle)
cxfir16x16_process	N: 80; M: 128	6855 (6.0 MACs/cycle)
cxfir16x16_process	N: 2048; M: 8	22542 (2.9 MACs/cycle)
cxfir16x16_process	N: 160; M: 8	1776 (2.9 MACs/cycle)
cxfir16x16_process	N: 160; M: 16	2576 (4.0 MACs/cycle)
cxfir16x16_process	N: 1024; M: 32	26632 (4.9 MACs/cycle)
cxfir32x16_process	N: 80; M: 128	10838 (3.8 MACs/cycle)
cxfir32x16_process	N: 80; M: 512	41559 (3.9 MACs/cycle)
cxfir32x16_process	N: 2048; M: 4	22548 (1.5 MACs/cycle)
cxfir32x16_process	N: 2048; M: 8	31252 (2.1 MACs/cycle)
cxfir32x16_process	N: 160; M: 8	2458 (2.1 MACs/cycle)
cxfir32x16_process	N: 160; M: 16	3738 (2.7 MACs/cycle)
cxfir32x16_process	N: 80; M: 16	1878 (2.7 MACs/cycle)
cxfir32x16_process	N: 512; M: 32	20116 (3.3 MACs/cycle)
cxfir32x16_process	N: 1024; M: 32	40210 (3.3 MACs/cycle)
cxfir32x32_process	N: 80; M: 128	10817 (3.8 MACs/cycle)
cxfir32x32_process	N: 80; M: 512	41537 (3.9 MACs/cycle)
cxfir32x32_process	N: 2048; M: 4	23980 (1.4 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
cxfir32x32_process	N: 2048; M: 8	31079 (2.1 MACs/cycle)
cxfir32x32_process	N: 160; M: 8	2444 (2.1 MACs/cycle)
cxfir32x32_process	N: 160; M: 16	3721 (2.8 MACs/cycle)
cxfir32x32_process	N: 80; M: 16	1867 (2.7 MACs/cycle)
cxfir32x32_process	N: 512; M: 32	20053 (3.3 MACs/cycle)
cxfir32x32_process	N: 1024; M: 32	40091 (3.3 MACs/cycle)
cxfir32x32ep_process	N: 80; M: 128	10918 (3.8 MACs/cycle)
cxfir32x32ep_process	N: 80; M: 512	41638 (3.9 MACs/cycle)
cxfir32x32ep_process	N: 2048; M: 4	23979 (1.4 MACs/cycle)
cxfir32x32ep_process	N: 2048; M: 8	33127 (2.0 MACs/cycle)
cxfir32x32ep_process	N: 160; M: 8	2604 (2.0 MACs/cycle)
cxfir32x32ep_process	N: 160; M: 16	3882 (2.6 MACs/cycle)
cxfir32x32ep_process	N: 80; M: 16	1951 (2.6 MACs/cycle)
cxfir32x32ep_process	N: 512; M: 32	20569 (3.2 MACs/cycle)
cxfir32x32ep_process	N: 1024; M: 32	41123 (3.2 MACs/cycle)
stereo_bkfir16x16_process	N: 80; M: 256	6112 (6.7 MACs/cycle)
stereo_bkfir16x16_process	N: 2048; M: 8	28136 (1.2 MACs/cycle)
stereo_bkfir16x16_process	N: 160; M: 8	2259 (1.1 MACs/cycle)
stereo_bkfir16x16_process	N: 160; M: 16	2487 (2.1 MACs/cycle)
stereo_bkfir16x16_process	N: 1024; M: 32	19805 (3.3 MACs/cycle)
stereo_bkfir32x32_process	N: 80; M: 256	10884 (3.8 MACs/cycle)
stereo_bkfir32x32_process	N: 2048; M: 8	23823 (1.4 MACs/cycle)
stereo_bkfir32x32_process	N: 160; M: 8	1875 (1.4 MACs/cycle)
stereo_bkfir32x32_process	N: 160; M: 16	2555 (2.0 MACs/cycle)
stereo_bkfir32x32_process	N: 1024; M: 32	24462 (2.7 MACs/cycle)
bkfiraf_process	N: 512; M: 32	7454 (2.2 MACs/cycle)
bkfiraf_process	N: 1024; M: 32	14876 (2.2 MACs/cycle)
bkfiraf_process	N: 1024; M: 256	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	17957 (1.8 MACs/cycle)
stereo_bkfirf_process	N: 1024; M: 32	35909 (1.8 MACs/cycle)
stereo_bkfirf_process	N: 1024; M: 256	150597 (3.5 MACs/cycle)
stereo_bkfirf_process	N: 1024; M: 512	281669 (3.7 MACs/cycle)
cxfirf_process	N: 512; M: 32	19083 (3.4 MACs/cycle)
cxfirf_process	N: 512; M: 256	133771 (3.9 MACs/cycle)
FIR Filters		
Decimation		
firdec16x16_process	N: 1024; M: 2; D: 2	6514 (0.3 MACs/cycle)
firdec16x16_process	N: 1024; M: 256; D: 2	46109 (5.7 MACs/cycle)
firdec16x16_process	N: 1024; M: 260; D: 2	47008 (5.7 MACs/cycle)
firdec16x16_process	N: 1024; M: 261; D: 2	47389 (5.6 MACs/cycle)
firdec16x16_process	N: 80; M: 256; D: 2	3629 (5.6 MACs/cycle)
firdec16x16_process	N: 1024; M: 2; D: 3	7073 (0.3 MACs/cycle)
firdec16x16_process	N: 1024; M: 256; D: 3	59741 (4.4 MACs/cycle)
firdec16x16_process	N: 1024; M: 260; D: 3	60577 (4.4 MACs/cycle)
firdec16x16_process	N: 1024; M: 261; D: 3	61420 (4.4 MACs/cycle)
firdec16x16_process	N: 1024; M: 2; D: 4	7300 (0.3 MACs/cycle)
firdec16x16_process	N: 1024; M: 256; D: 4	39199 (6.7 MACs/cycle)
firdec16x16_process	N: 1024; M: 260; D: 4	39525 (6.7 MACs/cycle)
firdec16x16_process	N: 1024; M: 261; D: 4	40102 (6.7 MACs/cycle)
firdec16x16_process	N: 1024; M: 256; D: 5	62675 (4.2 MACs/cycle)
firdec16x16_process	N: 1024; M: 260; D: 5	63357 (4.2 MACs/cycle)
firdec16x16_process	N: 1024; M: 256; D: 7	78713 (3.3 MACs/cycle)
firdec16x16_process	N: 1024; M: 260; D: 7	80544 (3.3 MACs/cycle)
firdec32x16_process	N: 1024; M: 2; D: 2	7290 (0.3 MACs/cycle)
firdec32x16_process	N: 1024; M: 4; D: 2	7290 (0.6 MACs/cycle)
firdec32x16_process	N: 1024; M: 8; D: 2	7717 (1.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 16; D: 2	7978 (2.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 32; D: 2	10277 (3.2 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 2	38949 (6.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 2	39581 (6.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 2	39973 (6.7 MACs/cycle)
firdec32x16_process	N: 80; M: 256; D: 2	3077 (6.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 2; D: 3	9635 (0.2 MACs/cycle)
firdec32x16_process	N: 1024; M: 4; D: 3	9635 (0.4 MACs/cycle)
firdec32x16_process	N: 1024; M: 8; D: 3	10429 (0.8 MACs/cycle)
firdec32x16_process	N: 1024; M: 16; D: 3	11268 (1.5 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 3	50067 (5.2 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 3	50339 (5.3 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 3	51335 (5.2 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
firdec32x16_process	N: 1024; M: 2; D: 4	9355 (0.2 MACs/cycle)
firdec32x16_process	N: 1024; M: 4; D: 4	9355 (0.4 MACs/cycle)
firdec32x16_process	N: 1024; M: 8; D: 4	10021 (0.8 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 4	43045 (6.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 4	43417 (6.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 261; D: 4	44069 (6.1 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 5	96135 (2.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 5	97186 (2.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 6	96674 (2.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 6	98047 (2.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 256; D: 7	112614 (2.3 MACs/cycle)
firdec32x16_process	N: 1024; M: 260; D: 7	114850 (2.3 MACs/cycle)
firdec32x16_process	N: 80; M: 256; D: 2	3077 (6.7 MACs/cycle)
firdec32x32_process	N: 1024; M: 2; D: 2	6943 (0.3 MACs/cycle)
firdec32x32_process	N: 1024; M: 4; D: 2	6943 (0.6 MACs/cycle)
firdec32x32_process	N: 1024; M: 8; D: 2	8223 (1.0 MACs/cycle)
firdec32x32_process	N: 1024; M: 16; D: 2	10271 (1.6 MACs/cycle)
firdec32x32_process	N: 1024; M: 32; D: 2	14367 (2.3 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 2	71711 (3.7 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 2	72735 (3.7 MACs/cycle)
firdec32x32_process	N: 1024; M: 261; D: 2	73759 (3.6 MACs/cycle)
firdec32x32_process	N: 1024; M: 2; D: 3	9634 (0.2 MACs/cycle)
firdec32x32_process	N: 1024; M: 4; D: 3	9636 (0.4 MACs/cycle)
firdec32x32_process	N: 1024; M: 8; D: 3	10735 (0.8 MACs/cycle)
firdec32x32_process	N: 1024; M: 16; D: 3	12255 (1.3 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 3	73896 (3.5 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 3	74914 (3.6 MACs/cycle)
firdec32x32_process	N: 1024; M: 261; D: 3	75944 (3.5 MACs/cycle)
firdec32x32_process	N: 1024; M: 2; D: 4	10271 (0.2 MACs/cycle)
firdec32x32_process	N: 1024; M: 4; D: 4	10271 (0.4 MACs/cycle)
firdec32x32_process	N: 1024; M: 8; D: 4	11297 (0.7 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 4	74271 (3.5 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 4	75295 (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	115915 (2.3 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 5	118561 (2.2 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 6	92579 (2.8 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 6	110285 (2.4 MACs/cycle)
firdec32x32_process	N: 1024; M: 256; D: 7	125201 (2.1 MACs/cycle)
firdec32x32_process	N: 1024; M: 260; D: 7	127905 (2.1 MACs/cycle)
firdec32x32_process	N: 80; M: 256; D: 2	5631 (3.6 MACs/cycle)
firdec32x32ep_process	N: 80; M: 256; D: 2	5703 (3.6 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 2; D: 2	7755 (0.3 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 4; D: 2	7755 (0.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 8; D: 2	9121 (0.9 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 16; D: 2	11169 (1.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 32; D: 2	15267 (2.1 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 2	72609 (3.6 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 2	73757 (3.6 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 261; D: 2	74658 (3.6 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 2; D: 3	10275 (0.2 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 4; D: 3	10275 (0.4 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 8; D: 3	11096 (0.7 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 16; D: 3	12616 (1.3 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 3	74279 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 3	75555 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 261; D: 3	76323 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 2; D: 4	9457 (0.2 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 4; D: 4	9457 (0.4 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 8; D: 4	10532 (0.8 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 4	74020 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 4	75058 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 261; D: 4	76068 (3.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 5	117070 (2.2 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 5	119716 (2.2 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 6	93732 (2.8 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 6	95012 (2.8 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 256; D: 7	126338 (2.1 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 260; D: 7	129061 (2.1 MACs/cycle)
firdec32x32ep_process	N: 80; M: 256; D: 2	5705 (3.6 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 2	71703 (3.7 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 2	137242 (3.8 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 3	99354 (2.6 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 3	189467 (2.8 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
firdecf_process	N: 1024; M: 256; D: 4	114714 (2.3 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 4	213018 (2.5 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 8	177179 (1.5 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 8	308249 (1.7 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 11	211993 (1.2 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 11	375833 (1.4 MACs/cycle)
firdecf_process	N: 1024; M: 256; D: 23	224281 (1.2 MACs/cycle)
firdecf_process	N: 1024; M: 512; D: 23	388120 (1.4 MACs/cycle)
FIR Filters		
Interpolation		
firinterp16x16_process	N: 1024; M: 4; D: 2	7519 (1.1 MACs/cycle)
firinterp16x16_process	N: 1024; M: 256; D: 2	80539 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 2	81440 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 4; D: 3	12706 (1.0 MACs/cycle)
firinterp16x16_process	N: 1024; M: 256; D: 3	121957 (6.4 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 3	123690 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 4; D: 4	15653 (1.0 MACs/cycle)
firinterp16x16_process	N: 1024; M: 256; D: 4	161445 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 4	163744 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 256; D: 5	202963 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 5	206295 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 256; D: 7	284045 (6.5 MACs/cycle)
firinterp16x16_process	N: 1024; M: 260; D: 7	287910 (6.5 MACs/cycle)
firinterp16x16_process	N: 80; M: 204; D: 2	5131 (6.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 4; D: 2	8487 (1.0 MACs/cycle)
firinterp32x16_process	N: 1024; M: 8; D: 2	10194 (1.6 MACs/cycle)
firinterp32x16_process	N: 1024; M: 16; D: 2	12838 (2.6 MACs/cycle)
firinterp32x16_process	N: 1024; M: 32; D: 2	18215 (3.6 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 2	77992 (6.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 2	79017 (6.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 4; D: 3	16291 (0.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 8; D: 3	17788 (1.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 16; D: 3	20447 (2.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 3	116911 (6.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 3	119211 (6.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 4; D: 4	19883 (0.8 MACs/cycle)
firinterp32x16_process	N: 1024; M: 8; D: 4	21589 (1.5 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 4	155948 (6.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 4	158635 (6.7 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 5	222121 (5.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 5	223147 (6.0 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 6	264749 (5.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 6	267179 (6.0 MACs/cycle)
firinterp32x16_process	N: 1024; M: 256; D: 7	309161 (5.9 MACs/cycle)
firinterp32x16_process	N: 1024; M: 260; D: 7	310827 (6.0 MACs/cycle)
firinterp32x16_process	N: 80; M: 204; D: 8	22703 (5.8 MACs/cycle)
firinterp32x32_process	N: 1024; M: 4; D: 2	10792 (0.8 MACs/cycle)
firinterp32x32_process	N: 1024; M: 8; D: 2	12841 (1.3 MACs/cycle)
firinterp32x32_process	N: 1024; M: 16; D: 2	16936 (1.9 MACs/cycle)
firinterp32x32_process	N: 1024; M: 32; D: 2	25128 (2.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 2	139816 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 2	142122 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 4; D: 3	22057 (0.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 8; D: 3	25897 (0.9 MACs/cycle)
firinterp32x32_process	N: 1024; M: 16; D: 3	32041 (1.5 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 3	216361 (3.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 3	219433 (3.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 4; D: 4	27945 (0.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 8; D: 4	33067 (1.0 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 4	287017 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 4	291113 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 5	358953 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 5	364073 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 6	429867 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 6	436009 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 7	500777 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 260; D: 7	507945 (3.7 MACs/cycle)
firinterp32x32_process	N: 80; M: 204; D: 8	36381 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 80; M: 204; D: 2	9056 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 4; D: 2	12585 (0.7 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 8; D: 2	15140 (1.1 MACs/cycle)
firinterp32x32ep_process	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)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
firinterp32x32ep_process	N: 1024; M: 260; D: 2	144164 (3.7 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 4; D: 3	25261 (0.5 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 8; D: 3	29141 (0.8 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 16; D: 3	35266 (1.4 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 3	219562 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 3	222632 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 4; D: 4	33325 (0.5 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 8; D: 4	38442 (0.9 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 4	292392 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 4	296488 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 5	367658 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 5	372778 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 6	440362 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 6	446506 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 7	513066 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 7	520234 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 80; M: 204; D: 8	37482 (3.5 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 2	134295 (3.9 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 2	265369 (4.0 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 3	221465 (3.6 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 3	418072 (3.8 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 4	269082 (3.9 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 4	531224 (3.9 MACs/cycle)
firinterpf_process	N: 1024; M: 256; D: 8	590619 (3.6 MACs/cycle)
firinterpf_process	N: 1024; M: 512; D: 8	1114906 (3.8 MACs/cycle)
FIR Filters		
Correlation, Convolution, Despreading, LMS		
fir_convol16x16	N: 80; M: 56	870 (5.1 MACs/cycle)
fir_convol16x16	N: 80; M: 60	911 (5.3 MACs/cycle)
fir_convol16x16	N: 256; M: 80	3519 (5.8 MACs/cycle)
fir_convol16x16	N: 256; M: 84	3648 (5.9 MACs/cycle)
fir_convol32x16	N: 80; M: 56	943 (4.8 MACs/cycle)
fir_convol32x16	N: 80; M: 60	948 (5.1 MACs/cycle)
fir_convol32x16	N: 256; M: 80	3735 (5.5 MACs/cycle)
fir_convol32x16	N: 256; M: 84	3804 (5.7 MACs/cycle)
fir_convol32x32	N: 80; M: 56	1286 (3.5 MACs/cycle)
fir_convol32x32	N: 256; M: 80	5594 (3.7 MACs/cycle)
fir_convol32x32ep	N: 80; M: 56	1538 (2.9 MACs/cycle)
fir_convol32x32ep	N: 256; M: 80	6418 (3.2 MACs/cycle)
fir_convola16x16	N=80; M=56	1038 (4.3 MACs/cycle)
fir_convola16x16	N=256; M=80	3867 (5.3 MACs/cycle)
fir_convola32x16	N: 80; M: 56	1099 (4.1 MACs/cycle)
fir_convola32x16	N: 80; M: 60	1182 (4.1 MACs/cycle)
fir_convola32x16	N: 256; M: 80	4003 (5.1 MACs/cycle)
fir_convola32x16	N: 256; M: 84	4262 (5.0 MACs/cycle)
fir_convola32x32	N=80; M=56	1440 (3.1 MACs/cycle)
fir_convola32x32	N=256; M=80	5905 (3.5 MACs/cycle)
fir_convola32x32ep	N=80; M=56	1656 (2.7 MACs/cycle)
fir_convola32x32ep	N=256; M=80	6580 (3.1 MACs/cycle)
cxfir_convol32x16	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	3994 (4.5 MACs/cycle)
cxfir_convola32x16	N: 256; M: 80	17091 (4.8 MACs/cycle)
fir_lconvola16x16	N=80; M=56	1308 (3.4 MACs/cycle)
fir_lconvola16x16	N=256; M=80	4213 (4.9 MACs/cycle)
fir_lconvola32x32	N=80; M=56	3071 (1.5 MACs/cycle)
fir_lconvola32x32	N=256; M=80	11912 (1.7 MACs/cycle)
fir_xcorr16x16	N: 80; M: 56	884 (5.1 MACs/cycle)
fir_xcorr16x16	N: 256; M: 80	3662 (5.6 MACs/cycle)
fir_xcorr32x16	N: 80; M: 56	879 (5.1 MACs/cycle)
fir_xcorr32x16	N: 80; M: 60	973 (4.9 MACs/cycle)
fir_xcorr32x16	N: 256; M: 80	3561 (5.8 MACs/cycle)
fir_xcorr32x16	N: 256; M: 84	3854 (5.6 MACs/cycle)
fir_xcorr32x32	N: 80; M: 56	1270 (3.5 MACs/cycle)
fir_xcorr32x32	N: 256; M: 80	5578 (3.7 MACs/cycle)
fir_xcorr32x32ep	N: 80; M: 56	1547 (2.9 MACs/cycle)
fir_xcorr32x32ep	N: 256; M: 80	6471 (3.2 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	N: 80; M: 56	1037 (4.3 MACs/cycle)
fir_xcorra16x16	N: 256; M: 80	3869 (5.3 MACs/cycle)
fir_xcorra32x16	N: 80; M: 56	1121 (4.0 MACs/cycle)
fir_xcorra32x16	N: 80; M: 60	1206 (4.0 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fir_xcorra32x16	N: 256; M: 80	4037 (5.1 MACs/cycle)
fir_xcorra32x16	N: 256; M: 84	4298 (5.0 MACs/cycle)
fir_xcorra32x32	N: 80; M: 56	1485 (3.0 MACs/cycle)
fir_xcorra32x32	N: 256; M: 80	5974 (3.4 MACs/cycle)
fir_xcorra32x32ep	N: 80; M: 56	1696 (2.6 MACs/cycle)
fir_xcorra32x32ep	N: 256; M: 80	6644 (3.1 MACs/cycle)
fir_lxcorra16x16	N=80; M=56	1308 (3.4 MACs/cycle)
fir_lxcorra16x16	N=256; M=80	4212 (4.9 MACs/cycle)
fir_lxcorra32x32	N=80; M=56	3071 (1.5 MACs/cycle)
fir_lxcorra32x32	N=256; M=80	11912 (1.7 MACs/cycle)
fir_acorr16x16	N: 80	1148 (5.6 MACs/cycle)
fir_acorr16x16	N: 256	9947 (6.6 MACs/cycle)
fir_acorr32x32	N: 80	1759 (3.6 MACs/cycle)
fir_acorr32x32	N: 256	16853 (3.9 MACs/cycle)
fir_acorr32x32ep	N: 80	1985 (3.2 MACs/cycle)
fir_acorr32x32ep	N: 256	17607 (3.7 MACs/cycle)
fir_acorra16x16	N=80	1295 (4.9 MACs/cycle)
fir_acorra16x16	N=256	9633 (6.8 MACs/cycle)
fir_acorra32x32	N: 80	1839 (3.5 MACs/cycle)
fir_acorra32x32	N: 256	17063 (3.8 MACs/cycle)
fir_acorra32x32ep	N: 80	2047 (3.1 MACs/cycle)
fir_acorra32x32ep	N: 256	17732 (3.7 MACs/cycle)
fir_lacorra16x16	N=80	803 (4.0 MACs/cycle)
fir_lacorra16x16	N=256	5259 (6.2 MACs/cycle)
fir_lacorra32x32	N=80	2090 (1.5 MACs/cycle)
fir_lacorra32x32	N=256	17886 (1.8 MACs/cycle)
fir_blms16x16	N: 80; M: 16	841 (3.0 MACs/cycle)
fir_blms16x16	N: 64; M: 16	704 (2.9 MACs/cycle)
fir_blms16x16	N: 64; M: 64	1757 (4.7 MACs/cycle)
fir_blms16x16	N: 80; M: 64	2085 (4.9 MACs/cycle)
fir_blms16x16	N: 80; M: 128	3732 (5.5 MACs/cycle)
fir_blms16x16	N: 64; M: 128	3148 (5.2 MACs/cycle)
fir_blms16x32	N: 80; M: 16	849 (3.0 MACs/cycle)
fir_blms16x32	N: 64; M: 16	707 (2.9 MACs/cycle)
fir_blms16x32	N: 64; M: 64	1683 (4.9 MACs/cycle)
fir_blms16x32	N: 80; M: 64	2011 (5.1 MACs/cycle)
fir_blms16x32	N: 80; M: 128	3598 (5.7 MACs/cycle)
fir_blms16x32	N: 64; M: 128	3016 (5.4 MACs/cycle)
fir_blms32x32	N: 80; M: 16	910 (2.8 MACs/cycle)
fir_blms32x32	N: 64; M: 16	749 (2.7 MACs/cycle)
fir_blms32x32	N: 64; M: 64	2411 (3.4 MACs/cycle)
fir_blms32x32	N: 80; M: 64	2957 (3.5 MACs/cycle)
fir_blms32x32	N: 80; M: 128	5684 (3.6 MACs/cycle)
fir_blms32x32	N: 64; M: 128	4628 (3.5 MACs/cycle)
fir_blms32x32ep	N: 80; M: 16	1149 (2.2 MACs/cycle)
fir_blms32x32ep	N: 64; M: 16	946 (2.2 MACs/cycle)
fir_blms32x32ep	N: 64; M: 64	2734 (3.0 MACs/cycle)
fir_blms32x32ep	N: 80; M: 64	3322 (3.1 MACs/cycle)
fir_blms32x32ep	N: 80; M: 128	6217 (3.3 MACs/cycle)
fir_blms32x32ep	N: 64; M: 128	5119 (3.2 MACs/cycle)
cxfir_blms32x32	N: 80; M: 16	3200 (3.2 MACs/cycle)
cxfir_blms32x32	N: 64; M: 16	2592 (3.2 MACs/cycle)
cxfir_blms32x32	N: 64; M: 64	9084 (3.6 MACs/cycle)
cxfir_blms32x32	N: 80; M: 64	11228 (3.6 MACs/cycle)
cxfir_blms32x32	N: 80; M: 128	21932 (3.7 MACs/cycle)
cxfir_blms32x32	N: 64; M: 128	17741 (3.7 MACs/cycle)
fir_convolf	N: 80; M: 56	1684 (2.7 MACs/cycle)
fir_convolf	N: 256; M: 80	6917 (3.0 MACs/cycle)
fir_convolaf	N: 80; M: 56	1993 (2.2 MACs/cycle)
fir_convolaf	N: 256; M: 80	7460 (2.7 MACs/cycle)
fir_xcorrf	N: 80; M: 56	1587 (2.8 MACs/cycle)
fir_xcorrf	N: 256; M: 80	6600 (3.1 MACs/cycle)
cxfir_xcorrf	N: 80; M: 56	4844 (3.7 MACs/cycle)
cxfir_xcorrf	N: 256; M: 80	21637 (3.8 MACs/cycle)
fir_xcorraf	N: 80; M: 56	2027 (2.2 MACs/cycle)
fir_xcorraf	N: 256; M: 80	7507 (2.7 MACs/cycle)
cxfir_xcorraf	N: 80; M: 56	4852 (3.7 MACs/cycle)
cxfir_xcorraf	N: 256; M: 80	21643 (3.8 MACs/cycle)
fir_acorrf	N: 80	2074 (3.1 MACs/cycle)
fir_acorrf	N: 256	17871 (3.7 MACs/cycle)
fir_acorraf	N: 80	2621 (2.4 MACs/cycle)
fir_acorraf	N: 256	19340 (3.4 MACs/cycle)
fir_blmsf	N: 80; M: 16	1375 (1.9 MACs/cycle)
fir_blmsf	N: 64; M: 16	1128 (1.8 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fir_blmsf	N: 64; M: 64	2982 (2.7 MACs/cycle)
fir_blmsf	N: 80; M: 64	3614 (2.8 MACs/cycle)
fir_blmsf	N: 80; M: 128	6598 (3.1 MACs/cycle)
fir_blmsf	N: 64; M: 128	5454 (3.0 MACs/cycle)
cxfir_blmsf	N: 80; M: 16	3053 (3.4 MACs/cycle)
cxfir_blmsf	N: 64; M: 16	2467 (3.3 MACs/cycle)
cxfir_blmsf	N: 64; M: 64	8862 (3.7 MACs/cycle)
cxfir_blmsf	N: 80; M: 64	10986 (3.7 MACs/cycle)
cxfir_blmsf	N: 80; M: 128	21562 (3.8 MACs/cycle)
cxfir_blmsf	N: 64; M: 128	17390 (3.8 MACs/cycle)
FIR Filters		
2D convolution		
conv2d_3x3_8x8	M=3,N=3,P=256,Q=512	338287 (3.5 MACs/cycle)
conv2d_5x5_8x8	M=5,N=5,P=256,Q=512	977478 (3.4 MACs/cycle)
conv2d_11x7_8x8	M=11,N=7,P=256,Q=512	1781108 (5.7 MACs/cycle)
conv2d_3x3_8x8	M=3,N=3,P=256,Q=256	173167 (3.4 MACs/cycle)
conv2d_5x5_8x8	M=5,N=5,P=256,Q=256	494918 (3.3 MACs/cycle)
conv2d_11x7_8x8	M=11,N=7,P=256,Q=256	900612 (5.6 MACs/cycle)
conv2d_3x3_8x8	M=3,N=3,P=64,Q=64	12656 (2.9 MACs/cycle)
conv2d_5x5_8x8	M=5,N=5,P=64,Q=64	34887 (2.9 MACs/cycle)
conv2d_11x7_8x8	M=11,N=7,P=64,Q=64	61680 (5.1 MACs/cycle)
conv2d_3x3_8x16	M=3,N=3,P=256,Q=512	271989 (4.3 MACs/cycle)
conv2d_5x5_8x16	M=5,N=5,P=256,Q=512	953556 (3.4 MACs/cycle)
conv2d_11x7_8x16	M=11,N=7,P=256,Q=512	1680946 (6.0 MACs/cycle)
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	483476 (3.4 MACs/cycle)
conv2d_11x7_8x16	M=11,N=7,P=256,Q=256	849330 (5.9 MACs/cycle)
conv2d_3x3_8x16	M=3,N=3,P=64,Q=64	10485 (3.5 MACs/cycle)
conv2d_5x5_8x16	M=5,N=5,P=64,Q=64	34340 (3.0 MACs/cycle)
conv2d_11x7_8x16	M=11,N=7,P=64,Q=64	57618 (5.5 MACs/cycle)
conv2d_3x3_16x16	M=3,N=3,P=256,Q=512	271970 (4.3 MACs/cycle)
conv2d_5x5_16x16	M=5,N=5,P=256,Q=512	953266 (3.4 MACs/cycle)
conv2d_11x7_16x16	M=11,N=7,P=256,Q=512	1680888 (6.0 MACs/cycle)
conv2d_3x3_16x16	M=3,N=3,P=256,Q=256	139874 (4.2 MACs/cycle)
conv2d_5x5_16x16	M=5,N=5,P=256,Q=256	483186 (3.4 MACs/cycle)
conv2d_11x7_16x16	M=11,N=7,P=256,Q=256	849272 (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	34242 (3.0 MACs/cycle)
conv2d_11x7_16x16	M=11,N=7,P=64,Q=64	57560 (5.5 MACs/cycle)
conv2d_3x3f	M=3,N=3,P=256,Q=256	339849 (1.7 MACs/cycle)
conv2d_5x5f	M=5,N=5,P=256,Q=256	811323 (2.0 MACs/cycle)
conv2d_11x7f	M=11,N=7,P=256,Q=256	1826486 (2.8 MACs/cycle)
conv2d_3x3f	M=3,N=3,P=128,Q=256	169992 (1.7 MACs/cycle)
conv2d_5x5f	M=5,N=5,P=128,Q=256	406588 (2.0 MACs/cycle)
conv2d_11x7f	M=11,N=7,P=128,Q=256	920055 (2.7 MACs/cycle)
conv2d_3x3f	M=3,N=3,P=64,Q=64	26744 (1.4 MACs/cycle)
conv2d_5x5f	M=5,N=5,P=64,Q=64	68619 (1.5 MACs/cycle)
conv2d_11x7f	M=11,N=7,P=64,Q=64	122005 (2.6 MACs/cycle)
IIR Filters		
Biquad Filters		
bqriir16x16_df1	N=256, M=1, gain=0	814 (3.2 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=2, gain=1	1311 (2.6 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=3, gain=0	2007 (2.6 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=4, gain=1	2507 (2.4 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=5, gain=0	3200 (2.5 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=6, gain=1	3696 (2.4 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=7, gain=0	4385 (2.4 cycles/(biquad*pts)
bqriir16x16_df1	N=256, M=8, gain=1	4890 (2.4 cycles/(biquad*pts)
bqriir16x16_df1	N=80, M=5, gain=0	1086 (2.7 cycles/(biquad*pts)
bqriir16x16_df1	N=80, M=5, gain=1	1086 (2.7 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=1, gain=0	796 (3.1 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=2, gain=1	1316 (2.6 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=3, gain=0	1988 (2.6 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=4, gain=1	2511 (2.5 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=5, gain=0	3181 (2.5 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=6, gain=1	3702 (2.4 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=7, gain=0	4378 (2.4 cycles/(biquad*pts)
bqriir16x16_df2	N=256, M=8, gain=1	4896 (2.4 cycles/(biquad*pts)
bqriir16x16_df2	N=80, M=5, gain=0	1069 (2.7 cycles/(biquad*pts)
bqriir16x16_df2	N=80, M=5, gain=1	1068 (2.7 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=1, gain=0	819 (3.2 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=2, gain=1	993 (1.9 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=3, gain=0	1641 (2.1 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=4, gain=1	1817 (1.8 cycles/(biquad*pts)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
bqriir32x16_df1	N=256, M=5, gain=0	2462 (1.9 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=6, gain=1	2638 (1.7 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=7, gain=0	3285 (1.8 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=8, gain=1	3461 (1.7 cycles/(biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=0	877 (2.2 cycles/(biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=1	934 (2.3 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=1, gain=0	812 (3.2 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=2, gain=1	1114 (2.2 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=3, gain=0	1754 (2.3 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=4, gain=1	2054 (2.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=5, gain=0	2694 (2.1 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=6, gain=1	2993 (1.9 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=7, gain=0	3634 (2.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=8, gain=1	3933 (1.9 cycles/(biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=0	934 (2.3 cycles/(biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=1	990 (2.5 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=1, gain=0	806 (3.1 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=2, gain=1	986 (1.9 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=3, gain=0	1616 (2.1 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=4, gain=1	1792 (1.8 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=5, gain=0	2420 (1.9 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=6, gain=1	2591 (1.7 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=7, gain=0	3223 (1.8 cycles/(biquad*pts)
bqriir32x32_df1	N=256, M=8, gain=1	3396 (1.7 cycles/(biquad*pts)
bqriir32x32_df1	N=80, M=5, gain=0	835 (2.1 cycles/(biquad*pts)
bqriir32x32_df1	N=80, M=5, gain=1	895 (2.2 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=1, gain=0	810 (3.2 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=2, gain=1	1611 (3.1 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=3, gain=0	2250 (2.9 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=4, gain=1	3049 (3.0 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=5, gain=0	3688 (2.9 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=6, gain=1	4486 (2.9 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=7, gain=0	5127 (2.9 cycles/(biquad*pts)
bqriir32x32_df2	N=256, M=8, gain=1	5923 (2.9 cycles/(biquad*pts)
bqriir32x32_df2	N=80, M=5, gain=0	1223 (3.1 cycles/(biquad*pts)
bqriir32x32_df2	N=80, M=5, gain=1	1280 (3.2 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=1, gain=0	2225 (8.7 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=2, gain=1	3196 (6.2 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=3, gain=0	4702 (6.1 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=4, gain=1	5674 (5.5 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=5, gain=0	7164 (5.6 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=6, gain=1	8140 (5.3 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=7, gain=0	9619 (5.4 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=256, M=8, gain=1	10596 (5.2 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=80, M=5, gain=0	2368 (5.9 cycles/(biquad*pts)
stereo_bqriir16x16_df1	N=80, M=5, gain=1	2369 (5.9 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=1, gain=0	1606 (6.3 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=2, gain=1	3204 (6.3 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=3, gain=0	3745 (4.9 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=4, gain=1	5347 (5.2 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=5, gain=0	5887 (4.6 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=6, gain=1	7488 (4.9 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=7, gain=0	8029 (4.5 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=256, M=8, gain=1	9631 (4.7 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=80, M=5, gain=0	2016 (5.0 cycles/(biquad*pts)
stereo_bqriir32x16_df1	N=80, M=5, gain=1	2343 (5.9 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=1, gain=0	1586 (6.2 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=2, gain=1	2905 (5.7 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=3, gain=0	3424 (4.5 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=4, gain=1	4746 (4.6 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=5, gain=0	5266 (4.1 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=6, gain=1	6587 (4.3 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=7, gain=0	7103 (4.0 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=256, M=8, gain=1	8425 (4.1 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=80, M=5, gain=0	1746 (4.4 cycles/(biquad*pts)
stereo_bqriir32x32_df1	N=80, M=5, gain=1	2076 (5.2 cycles/(biquad*pts)
bqriirf_df1	N=512, M=1	3416 (6.7 cycles/(biquad*pts)
bqriirf_df1	N=512, M=2	4696 (4.6 cycles/(biquad*pts)
bqriirf_df1	N=512, M=3	7797 (5.1 cycles/(biquad*pts)
bqriirf_df1	N=512, M=4	5723 (2.8 cycles/(biquad*pts)
bqriirf_df1	N=512, M=8	11201 (2.7 cycles/(biquad*pts)
bqriirf_df1	N=512, M=12	16613 (2.7 cycles/(biquad*pts)
bqriirf_df1	N=512, M=16	22090 (2.7 cycles/(biquad*pts)
bqriirf_df2	N=512, M=1	2386 (4.7 cycles/(biquad*pts)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
bqriirf_df2	N=512, M=2	4466 (4.4 cycles/(biquad*pts)
bqriirf_df2	N=512, M=3	6546 (4.3 cycles/(biquad*pts)
bqriirf_df2	N=512, M=4	5211 (2.5 cycles/(biquad*pts)
bqriirf_df2	N=512, M=8	10113 (2.5 cycles/(biquad*pts)
bqriirf_df2	N=512, M=12	15016 (2.4 cycles/(biquad*pts)
bqriirf_df2	N=512, M=16	19919 (2.4 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=1	4703 (9.2 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=2	4425 (4.3 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=3	8815 (5.7 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=4	4849 (2.4 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=8	9387 (2.3 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=12	13925 (2.3 cycles/(biquad*pts)
bqriirf_df2t	N=512, M=16	18464 (2.3 cycles/(biquad*pts)
bqciirf_df1	N=512, M=1	3132 (6.1 cycles/(biquad*pts)
bqciirf_df1	N=512, M=2	4955 (4.8 cycles/(biquad*pts)
bqciirf_df1	N=512, M=3	7535 (4.9 cycles/(biquad*pts)
bqciirf_df1	N=512, M=4	9360 (4.6 cycles/(biquad*pts)
bqciirf_df1	N=512, M=8	18674 (4.6 cycles/(biquad*pts)
bqciirf_df1	N=512, M=12	26981 (4.4 cycles/(biquad*pts)
bqciirf_df1	N=512, M=16	36798 (4.5 cycles/(biquad*pts)
stereo_bqriirf_df1	N=512, M=1	3135 (6.1 cycles/(biquad*pts)
stereo_bqriirf_df1	N=512, M=2	5735 (5.6 cycles/(biquad*pts)
stereo_bqriirf_df1	N=512, M=3	7820 (5.1 cycles/(biquad*pts)
stereo_bqriirf_df1	N=512, M=4	10418 (5.1 cycles/(biquad*pts)
stereo_bqriirf_df1	N=512, M=8	19784 (4.8 cycles/(biquad*pts)
stereo_bqriirf_df1	N=512, M=12	29150 (4.7 cycles/(biquad*pts)
stereo_bqriirf_df1	N=512, M=16	38514 (4.7 cycles/(biquad*pts)
IIR Filters		
Biquad Filters, no delay		
bqriir16x16_df1_nd	N=256, M=1, gain=0	811 (3.2 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=256, M=2, gain=1	1323 (2.6 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=256, M=3, gain=0	2023 (2.6 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=256, M=4, gain=1	2538 (2.5 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=256, M=5, gain=0	3236 (2.5 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=256, M=6, gain=1	3749 (2.4 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=256, M=7, gain=0	4443 (2.5 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=256, M=8, gain=1	4960 (2.4 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=80, M=5, gain=0	1124 (2.8 cycles/(biquad*pts)
bqriir16x16_df1_nd	N=80, M=5, gain=1	1124 (2.8 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=1, gain=0	795 (3.1 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=2, gain=1	1321 (2.6 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=3, gain=0	2115 (2.8 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=4, gain=1	2640 (2.6 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=5, gain=0	3439 (2.7 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=6, gain=1	3962 (2.6 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=7, gain=0	4760 (2.7 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=256, M=8, gain=1	5284 (2.6 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=80, M=5, gain=0	1150 (2.9 cycles/(biquad*pts)
bqriir16x16_df2_nd	N=80, M=5, gain=1	1150 (2.9 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=1, gain=0	811 (3.2 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=2, gain=1	985 (1.9 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=3, gain=0	1633 (2.1 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=4, gain=1	1809 (1.8 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=5, gain=0	2454 (1.9 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=6, gain=1	2628 (1.7 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=7, gain=0	3275 (1.8 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=256, M=8, gain=1	3451 (1.7 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=80, M=5, gain=0	867 (2.2 cycles/(biquad*pts)
bqriir32x16_df1_nd	N=80, M=5, gain=1	924 (2.3 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=1, gain=0	803 (3.1 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=2, gain=1	1104 (2.2 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=3, gain=0	1744 (2.3 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=4, gain=1	2044 (2.0 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=5, gain=0	2684 (2.1 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=6, gain=1	2983 (1.9 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=7, gain=0	3624 (2.0 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=256, M=8, gain=1	3922 (1.9 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=80, M=5, gain=0	923 (2.3 cycles/(biquad*pts)
bqriir32x16_df2_nd	N=80, M=5, gain=1	982 (2.5 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=256, M=1, gain=0	796 (3.1 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=256, M=2, gain=1	976 (1.9 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=256, M=3, gain=0	1606 (2.1 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=256, M=4, gain=1	1782 (1.7 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=256, M=5, gain=0	2412 (1.9 cycles/(biquad*pts)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
bqriir32x32_df1_nd	N=256, M=6, gain=1	2581 (1.7 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=256, M=7, gain=0	3213 (1.8 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=256, M=8, gain=1	3386 (1.7 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=80, M=5, gain=0	827 (2.1 cycles/(biquad*pts)
bqriir32x32_df1_nd	N=80, M=5, gain=1	886 (2.2 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=1, gain=0	800 (3.1 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=2, gain=1	1601 (3.1 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=3, gain=0	2240 (2.9 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=4, gain=1	3039 (3.0 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=5, gain=0	3680 (2.9 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=6, gain=1	4476 (2.9 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=7, gain=0	5116 (2.9 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=256, M=8, gain=1	5913 (2.9 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=80, M=5, gain=0	1213 (3.0 cycles/(biquad*pts)
bqriir32x32_df2_nd	N=80, M=5, gain=1	1270 (3.2 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=1, gain=0	2220 (8.7 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=2, gain=1	3248 (6.3 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=3, gain=0	4774 (6.2 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=4, gain=1	5802 (5.7 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=5, gain=0	7317 (5.7 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=6, gain=1	8344 (5.4 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=7, gain=0	9851 (5.5 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=256, M=8, gain=1	10880 (5.3 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=80, M=5, gain=0	2444 (6.1 cycles/(biquad*pts)
stereo_bqriir16x16_df1_nd	N=80, M=5, gain=1	2444 (6.1 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=1, gain=0	1597 (6.2 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=2, gain=1	3197 (6.2 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=3, gain=0	3738 (4.9 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=4, gain=1	5338 (5.2 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=5, gain=0	5879 (4.6 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=6, gain=1	7481 (4.9 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=7, gain=0	8021 (4.5 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=256, M=8, gain=1	9624 (4.7 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=80, M=5, gain=0	2007 (5.0 cycles/(biquad*pts)
stereo_bqriir32x16_df1_nd	N=80, M=5, gain=1	2336 (5.8 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=1, gain=0	1577 (6.2 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=2, gain=1	2898 (5.7 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=3, gain=0	3415 (4.4 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=4, gain=1	4737 (4.6 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=5, gain=0	5259 (4.1 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=6, gain=1	6578 (4.3 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=7, gain=0	7096 (4.0 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=256, M=8, gain=1	8417 (4.1 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=80, M=5, gain=0	1738 (4.3 cycles/(biquad*pts)
stereo_bqriir32x32_df1_nd	N=80, M=5, gain=1	2067 (5.2 cycles/(biquad*pts)
bqriirf_df1_nd	N=512, M=1	3413 (6.7 cycles/(biquad*pts)
bqriirf_df1_nd	N=512, M=2	6518 (6.4 cycles/(biquad*pts)
bqriirf_df1_nd	N=512, M=3	9628 (6.3 cycles/(biquad*pts)
bqriirf_df1_nd	N=512, M=4	9381 (4.6 cycles/(biquad*pts)
bqriirf_df1_nd	N=512, M=8	18466 (4.5 cycles/(biquad*pts)
bqriirf_df1_nd	N=512, M=12	27551 (4.5 cycles/(biquad*pts)
bqriirf_df1_nd	N=512, M=16	36637 (4.5 cycles/(biquad*pts)
bqriirf_df2_nd	N=512, M=1	2375 (4.6 cycles/(biquad*pts)
bqriirf_df2_nd	N=512, M=2	4454 (4.3 cycles/(biquad*pts)
bqriirf_df2_nd	N=512, M=3	6536 (4.3 cycles/(biquad*pts)
bqriirf_df2_nd	N=512, M=4	8613 (4.2 cycles/(biquad*pts)
bqriirf_df2_nd	N=512, M=8	16935 (4.1 cycles/(biquad*pts)
bqriirf_df2_nd	N=512, M=12	25255 (4.1 cycles/(biquad*pts)
bqriirf_df2_nd	N=512, M=16	33577 (4.1 cycles/(biquad*pts)
bqriirf_df2t_nd	N=512, M=1	4684 (9.1 cycles/(biquad*pts)
bqriirf_df2t_nd	N=512, M=2	7751 (7.6 cycles/(biquad*pts)
bqriirf_df2t_nd	N=512, M=3	12125 (7.9 cycles/(biquad*pts)
bqriirf_df2t_nd	N=512, M=4	8534 (4.2 cycles/(biquad*pts)
bqriirf_df2t_nd	N=512, M=8	16760 (4.1 cycles/(biquad*pts)
bqriirf_df2t_nd	N=512, M=12	24988 (4.1 cycles/(biquad*pts)
bqriirf_df2t_nd	N=512, M=16	33212 (4.1 cycles/(biquad*pts)
bqciirf_df1_nd	N=512, M=1	3128 (6.1 cycles/(biquad*pts)
bqciirf_df1_nd	N=512, M=2	5597 (5.5 cycles/(biquad*pts)
bqciirf_df1_nd	N=512, M=3	8177 (5.3 cycles/(biquad*pts)
bqciirf_df1_nd	N=512, M=4	10648 (5.2 cycles/(biquad*pts)
bqciirf_df1_nd	N=512, M=8	20877 (5.1 cycles/(biquad*pts)
bqciirf_df1_nd	N=512, M=12	30852 (5.0 cycles/(biquad*pts)
bqciirf_df1_nd	N=512, M=16	41208 (5.0 cycles/(biquad*pts)
stereo_bqriirf_df1_nd	N=512, M=1	3131 (6.1 cycles/(biquad*pts)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
stereo_bqriirf_df1_nd	N=512, M=2	6742 (6.6 cycles/(biquad*pts)
stereo_bqriirf_df1_nd	N=512, M=3	8824 (5.7 cycles/(biquad*pts)
stereo_bqriirf_df1_nd	N=512, M=4	12433 (6.1 cycles/(biquad*pts)
stereo_bqriirf_df1_nd	N=512, M=8	23815 (5.8 cycles/(biquad*pts)
stereo_bqriirf_df1_nd	N=512, M=12	35198 (5.7 cycles/(biquad*pts)
stereo_bqriirf_df1_nd	N=512, M=16	46578 (5.7 cycles/(biquad*pts)
IIR Filters		
Lattice Filters		
latr16x16_process	N=256, M=1	791 (3.1 cycles/(sample*M)
latr16x16_process	N=256, M=2	1564 (3.1 cycles/(sample*M)
latr16x16_process	N=256, M=3	1572 (2.0 cycles/(sample*M)
latr16x16_process	N=256, M=4	1955 (1.9 cycles/(sample*M)
latr16x16_process	N=256, M=5	2089 (1.6 cycles/(sample*M)
latr16x16_process	N=256, M=6	2077 (1.4 cycles/(sample*M)
latr16x16_process	N=256, M=7	2087 (1.2 cycles/(sample*M)
latr16x16_process	N=256, M=8	2599 (1.3 cycles/(sample*M)
latr16x16_process	N=256, M=9	11022 (4.8 cycles/(sample*M)
latr16x16_process	N=80, M=6	671 (1.4 cycles/(sample*M)
latr32x16_process	N=256, M=1	785 (3.1 cycles/(sample*M)
latr32x16_process	N=256, M=2	1040 (2.0 cycles/(sample*M)
latr32x16_process	N=256, M=3	1303 (1.7 cycles/(sample*M)
latr32x16_process	N=256, M=4	1811 (1.8 cycles/(sample*M)
latr32x16_process	N=256, M=5	1813 (1.4 cycles/(sample*M)
latr32x16_process	N=256, M=6	2067 (1.3 cycles/(sample*M)
latr32x16_process	N=256, M=7	2202 (1.2 cycles/(sample*M)
latr32x16_process	N=256, M=8	2591 (1.3 cycles/(sample*M)
latr32x16_process	N=256, M=9	8978 (3.9 cycles/(sample*M)
latr32x16_process	N=80, M=6	661 (1.4 cycles/(sample*M)
latr32x32_process	N=256, M=1	792 (3.1 cycles/(sample*M)
latr32x32_process	N=256, M=2	1298 (2.5 cycles/(sample*M)
latr32x32_process	N=256, M=3	1813 (2.4 cycles/(sample*M)
latr32x32_process	N=256, M=4	1822 (1.8 cycles/(sample*M)
latr32x32_process	N=256, M=5	2070 (1.6 cycles/(sample*M)
latr32x32_process	N=256, M=6	2336 (1.5 cycles/(sample*M)
latr32x32_process	N=256, M=7	2851 (1.6 cycles/(sample*M)
latr32x32_process	N=256, M=8	3099 (1.5 cycles/(sample*M)
latr32x32_process	N=256, M=9	9809 (4.3 cycles/(sample*M)
latrf_process	N=256, M=1	1050 (4.1 cycles/(sample*M)
latrf_process	N=256, M=2	2082 (4.1 cycles/(sample*M)
latrf_process	N=256, M=3	3108 (4.0 cycles/(sample*M)
latrf_process	N=256, M=4	3365 (3.3 cycles/(sample*M)
latrf_process	N=256, M=5	3311 (2.6 cycles/(sample*M)
latrf_process	N=256, M=6	3761 (2.4 cycles/(sample*M)
latrf_process	N=256, M=7	5374 (3.0 cycles/(sample*M)
latrf_process	N=256, M=8	6401 (3.1 cycles/(sample*M)
latrf_process	N=256, M=9	13158 (5.7 cycles/(sample*M)
latrf_process	N=80, M=6	1209 (2.5 cycles/(sample*M)
Math Functions		
Vectorized Math		
vec_recip16x16	N=200	2016 (10.1 cycles/pts)
vec_recip32x32	N=200	2632 (13.2 cycles/pts)
vec_recip64x64	N=200	4333 (21.7 cycles/pts)
vec_divide16x16	N=200	2019 (10.1 cycles/pts)
vec_divide32x32	N=200	1495 (7.5 cycles/pts)
vec_divide64x32i	N=200	4333 (21.7 cycles/pts)
vec_divide64x64	N=200	6194 (31.0 cycles/pts)
vec_log2_32x32	N=200	925 (4.6 cycles/pts)
vec_logn_32x32	N=200	1029 (5.1 cycles/pts)
vec_log10_32x32	N=200	1029 (5.1 cycles/pts)
vec_antilog2_32x32	N=200	582 (2.9 cycles/pts)
vec_antilogn_32x32	N=200	742 (3.7 cycles/pts)
vec_antilog10_32x32	N=200	742 (3.7 cycles/pts)
vec_pow_32x32	N=200	9230 (46.1 cycles/pts)
vec_sine32x32	N=200	739 (3.7 cycles/pts)
vec_cosine32x32	N=200	730 (3.6 cycles/pts)
vec_tan32x32	N=200	2899 (14.5 cycles/pts)
vec_atan32x32	N=200	1030 (5.2 cycles/pts)
vec_sqrt16x16	N=200	1152 (5.8 cycles/pts)
vec_sqrt32x16	N=200	1560 (7.8 cycles/pts)
vec_sqrt32x32	N=200	1251 (6.3 cycles/pts)
vec_sqrt64x32	N=200	1244 (6.2 cycles/pts)
vec_rsqrt16x16	N=200	2296 (11.5 cycles/pts)
vec_rsqrt32x32	N=200	2951 (14.8 cycles/pts)
vec_sigmoid32x32	N=200	1168 (5.8 cycles/pts)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
vec_softmax32x32	N=200	1080 (5.4 cycles/pts)
vec_tanh32x32	N=200	1163 (5.8 cycles/pts)
vec_relu32x32	N=200	218 (1.1 cycles/pts)
vec_int2float	N=200	229 (1.1 cycles/pts)
vec_float2int	N=200	225 (1.1 cycles/pts)
vec_sinef	N=200	2995 (15.0 cycles/pts)
vec_cosinef	N=200	2949 (14.7 cycles/pts)
vec_tanf	N=200	3702 (18.5 cycles/pts)
vec_log2f	N=200	2544 (12.7 cycles/pts)
vec_log10f	N=200	2504 (12.5 cycles/pts)
vec_lognf	N=200	2361 (11.8 cycles/pts)
vec_antilog2f	N=200	1144 (5.7 cycles/pts)
vec_antilognf	N=200	1148 (5.7 cycles/pts)
vec_antilog10f	N=200	1337 (6.7 cycles/pts)
vec_powf	N=200	11927 (59.6 cycles/pts)
vec_atanf	N=200	2443 (12.2 cycles/pts)
vec_atan2f	N=200	3516 (17.6 cycles/pts)
vec_sigmoidf	N=200	3332 (16.7 cycles/pts)
vec_softmaxf	N=200	1670 (8.3 cycles/pts)
vec_tanhf	N=200	4271 (21.4 cycles/pts)
vec_reluf	N=200	214 (1.1 cycles/pts)
Math Functions		
Vectorized Fast Math		
vec_divide16x16_fast	N=200	1143 (5.7 cycles/pts)
vec_divide32x32_fast	N=200	1632 (8.2 cycles/pts)
vec_sine32x32_fast	N=200	728 (3.6 cycles/pts)
vec_cosine32x32_fast	N=200	728 (3.6 cycles/pts)
vec_sqrt32x32_fast	N=200	1172 (5.9 cycles/pts)
Math Functions		
Scalar Math		
scl_recip16x16		27 (cycles)
scl_recip32x32		30 (cycles)
scl_recip64x64		53 (cycles)
scl_divide16x16		33 (cycles)
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		15 (cycles)
scl_antilogn_32x32		18 (cycles)
scl_antilog10_32x32		18 (cycles)
scl_sqrt16x16		25 (cycles)
scl_sqrt32x16		27 (cycles)
scl_sqrt32x32		20 (cycles)
scl_sqrt64x32		32 (cycles)
scl_sine32x32		16 (cycles)
scl_cosine32x32		16 (cycles)
scl_tan32x32		44 (cycles)
scl_atan32x32		21 (cycles)
scl_rsqrt16x16		34 (cycles)
scl_rsqrt32x32		42 (cycles)
scl_sigmoid32x32		30 (cycles)
scl_tanh32x32		30 (cycles)
scl_relu32x32		4 (cycles)
scl_int2float		2 (cycles)
scl_float2int		7 (cycles)
scl_sinef		82 (cycles)
scl_cosinef		81 (cycles)
scl_tanf	x=0.4	82 (cycles)
scl_tanf	x=1.2	99 (cycles)
scl_log2f		61 (cycles)
scl_log10f		61 (cycles)
scl_lognf		62 (cycles)
scl_antilog2f		36 (cycles)
scl_antilog10f		36 (cycles)
scl_antilognf		35 (cycles)
scl_powf	x=1 y=1	85 (cycles)
scl_powf	x=1.25 y=0.75	225 (cycles)
scl_atanf	x=0.7	45 (cycles)
scl_atanf	x=1.3	62 (cycles)
scl_atan2f		80 (cycles)
scl_sigmoidf		75 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
scl_tanhf		87 (cycles)
scl_reluf		5 (cycles)
Complex Functions		
Vectorized Complex Math		
vec_complex2mag	N=200	3415 (17.1 cycles/pts)
vec_complex2invmag	N=200	2567 (12.8 cycles/pts)
Complex Functions		
Scalar Complex Math		
scl_complex2mag		67 (cycles)
scl_complex2invmag		63 (cycles)
Vector Operations		
vec_dot16x16	N=200	120 (0.6 cycles/pts)
vec_dot32x16	x aligned, N=200	117 (0.6 cycles/pts)
vec_dot32x16	x unaligned, N=200	119 (0.6 cycles/pts)
vec_dot32x32	x aligned, N=200	122 (0.6 cycles/pts)
vec_dot32x32	x unaligned, N=200	120 (0.6 cycles/pts)
vec_dot64x32	N=200	221 (1.1 cycles/pts)
vec_dot64x64	N=200	218 (1.1 cycles/pts)
vec_dot64x64i	N=200	212 (1.1 cycles/pts)
vec_dot16x16_fast	N=200	65 (0.3 cycles/pts)
vec_dot32x16_fast	N=200	86 (0.4 cycles/pts)
vec_dot32x32_fast	N=200	110 (0.6 cycles/pts)
vec_dot64x32_fast	N=200	214 (1.1 cycles/pts)
vec_dot64x64_fast	N=200	215 (1.1 cycles/pts)
vec_dot64x64i_fast	N=200	211 (1.1 cycles/pts)
vec_dot_batch8x8	N=200, M=16	1637 (0.5 cycles/pts)
vec_dot_batch8x16	N=200, M=16	1339 (0.4 cycles/pts)
vec_dot_batch16x16	N=200, M=16	1389 (0.4 cycles/pts)
vec_dot_batch8x8_fast	N=200, M=16	586 (0.2 cycles/pts)
vec_dot_batch8x16_fast	N=200, M=16	674 (0.2 cycles/pts)
vec_dot_batch16x16_fast	N=200, M=16	586 (0.2 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	211 (1.1 cycles/pts)
vec_add16x16_fast	N=200	89 (0.4 cycles/pts)
vec_add32x32_fast	N=200	159 (0.8 cycles/pts)
vec_power16x16	x aligned, N=200	42 (0.2 cycles/pts)
vec_power16x16	x unaligned, N=200	56 (0.3 cycles/pts)
vec_power32x32	x aligned, N=200	70 (0.3 cycles/pts)
vec_power32x32	x unaligned, N=200	70 (0.3 cycles/pts)
vec_power16x16_fast	N=200	40 (0.2 cycles/pts)
vec_power32x32_fast	N=200	59 (0.3 cycles/pts)
vec_shift16x16	shift>0, x aligned, N=200	123 (0.6 cycles/pts)
vec_shift16x16	shift>0, x unaligned, N=200	123 (0.6 cycles/pts)
vec_shift16x16	shift<0, x aligned, N=200	82 (0.4 cycles/pts)
vec_shift16x16	shift<0, x unaligned, N=200	93 (0.5 cycles/pts)
vec_shift32x32	x aligned, N=200	215 (1.1 cycles/pts)
vec_shift32x32	x unaligned, N=200	122 (0.6 cycles/pts)
vec_scale16x16	x aligned, N=200	79 (0.4 cycles/pts)
vec_scale16x16	x unaligned, N=200	89 (0.4 cycles/pts)
vec_scale32x32	x aligned, N=200	121 (0.6 cycles/pts)
vec_scale32x32	x unaligned, N=200	123 (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	N=200	114 (0.6 cycles/pts)
vec_scale16x16_fast	N=200	63 (0.3 cycles/pts)
vec_scale32x32_fast	N=200	113 (0.6 cycles/pts)
vec_max16x16	x aligned, N=200	124 (0.6 cycles/pts)
vec_max16x16	x unaligned, N=200	125 (0.6 cycles/pts)
vec_min16x16	x aligned, N=200	124 (0.6 cycles/pts)
vec_min16x16	x unaligned, N=200	124 (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	N=200	66 (0.3 cycles/pts)
vec_max32x32_fast	N=200	87 (0.4 cycles/pts)
vec_min32x32_fast	N=200	86 (0.4 cycles/pts)
vec_bexp16	N=200	121 (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	96 (0.5 cycles/pts)
scl_bexp16		7 (cycles)
scl_bexp32		5 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
vec_dotf	N=200	238 (1.2 cycles/pts)
vec_dot_batchf	N=200, M=16	1761 (0.6 cycles/pts)
vec_dot_batchf_fast	N=200, M=16	1711 (0.5 cycles/pts)
vec_addf	N=200	222 (1.1 cycles/pts)
vec_powerf	N=200	114 (0.6 cycles/pts)
vec_shiftf	N=200	140 (0.7 cycles/pts)
vec_scalef	N=200	127 (0.6 cycles/pts)
vec_scale_sf	N=200	230 (1.1 cycles/pts)
vec_minf	N=200	116 (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	2027 (10.1 cycles/pts)
vec_dot_32x16ef	N=200	1070 (5.3 cycles/pts)
scl_add_32x16ef		23 (cycles)
scl_mul_32x16ef		15 (cycles)
scl_mac_32x16ef		29 (cycles)
Matrix Operations		
mtx_mpy8x8	16x16 x 16x16	4282 (1.0 MACs/cycle)
mtx_mpy8x8	32x32 x 32x32	28194 (1.2 MACs/cycle)
mtx_mpy8x8	40x80 x 80x8	19298 (1.3 MACs/cycle)
mtx_mpy8x8	40x81 x 81x8	20138 (1.3 MACs/cycle)
mtx_mpy8x8	40x82 x 82x8	19739 (1.3 MACs/cycle)
mtx_mpy8x8	40x83 x 83x8	20578 (1.3 MACs/cycle)
mtx_mpy8x8	2x100 x 100x8	1299 (1.2 MACs/cycle)
mtx_mpy8x8	8x80 x 80x2	1119 (1.1 MACs/cycle)
mtx_mpy8x8	8x4 x 4x2	288 (0.2 MACs/cycle)
mtx_mpy8x8	8x16 x 16x2	415 (0.6 MACs/cycle)
mtx_mpy8x8	8x32 x 32x2	592 (0.9 MACs/cycle)
mtx_mpy8x8_fast	16x16 x 16x16	1901 (2.2 MACs/cycle)
mtx_mpy8x8_fast	32x32 x 32x32	12093 (2.7 MACs/cycle)
mtx_mpy8x8_fast	8x80 x 80x4	751 (3.4 MACs/cycle)
mtx_mpy8x8_fast	8x84 x 84x4	821 (3.3 MACs/cycle)
mtx_mpy8x8_fast	8x4 x 4x4	204 (0.6 MACs/cycle)
mtx_mpy8x8_fast	8x16 x 16x4	287 (1.8 MACs/cycle)
mtx_mpy8x8_fast	8x32 x 32x4	434 (2.4 MACs/cycle)
mtx_mpyt8x8	16x16 x 16x16	4557 (0.9 MACs/cycle)
mtx_mpyt8x8	32x32 x 32x32	28998 (1.1 MACs/cycle)
mtx_mpyt8x8	40x80 x 80x8	19637 (1.3 MACs/cycle)
mtx_mpyt8x8	40x81 x 81x8	20325 (1.3 MACs/cycle)
mtx_mpyt8x8	40x82 x 82x8	20197 (1.3 MACs/cycle)
mtx_mpyt8x8	40x83 x 83x8	20886 (1.3 MACs/cycle)
mtx_mpyt8x8	2x100 x 100x8	1333 (1.2 MACs/cycle)
mtx_mpyt8x8	8x80 x 80x2	1121 (1.1 MACs/cycle)
mtx_mpyt8x8	8x4 x 4x2	286 (0.2 MACs/cycle)
mtx_mpyt8x8	8x16 x 16x2	417 (0.6 MACs/cycle)
mtx_mpyt8x8	8x32 x 32x2	592 (0.9 MACs/cycle)
mtx_mpyt8x8_fast	16x16 x 16x16	1606 (2.6 MACs/cycle)
mtx_mpyt8x8_fast	32x32 x 32x32	10262 (3.2 MACs/cycle)
mtx_mpyt8x8_fast	8x80 x 80x4	619 (4.1 MACs/cycle)
mtx_mpyt8x8_fast	8x84 x 84x4	518 (5.2 MACs/cycle)
mtx_mpyt8x8_fast	8x4 x 4x4	162 (0.8 MACs/cycle)
mtx_mpyt8x8_fast	8x16 x 16x4	235 (2.2 MACs/cycle)
mtx_mpyt8x8_fast	8x32 x 32x4	362 (2.8 MACs/cycle)
mtx_mpy8x16	16x16 x 16x16	3114 (1.3 MACs/cycle)
mtx_mpy8x16	32x32 x 32x32	17659 (1.9 MACs/cycle)
mtx_mpy8x16	40x80 x 80x8	11091 (2.3 MACs/cycle)
mtx_mpy8x16	40x81 x 81x8	11314 (2.3 MACs/cycle)
mtx_mpy8x16	40x82 x 82x8	11364 (2.3 MACs/cycle)
mtx_mpy8x16	40x83 x 83x8	11579 (2.3 MACs/cycle)
mtx_mpy8x16	2x100 x 100x8	1530 (1.0 MACs/cycle)
mtx_mpy8x16	8x80 x 80x2	1169 (1.1 MACs/cycle)
mtx_mpy8x16	8x4 x 4x2	254 (0.3 MACs/cycle)
mtx_mpy8x16	8x16 x 16x2	401 (0.6 MACs/cycle)
mtx_mpy8x16	8x32 x 32x2	594 (0.9 MACs/cycle)
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	588 (4.4 MACs/cycle)
mtx_mpy8x16_fast	8x84 x 84x4	533 (5.0 MACs/cycle)
mtx_mpy8x16_fast	8x4 x 4x4	137 (0.9 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
mtx_mpy8x16_fast	8x16 x 16x4	204 (2.5 MACs/cycle)
mtx_mpy8x16_fast	8x32 x 32x4	299 (3.4 MACs/cycle)
mtx_mpyt8x16	16x16 x 16x16	3176 (1.3 MACs/cycle)
mtx_mpyt8x16	32x32 x 32x32	13440 (2.4 MACs/cycle)
mtx_mpyt8x16	40x80 x 80x8	9224 (2.8 MACs/cycle)
mtx_mpyt8x16	40x81 x 81x8	9596 (2.7 MACs/cycle)
mtx_mpyt8x16	40x82 x 82x8	9638 (2.7 MACs/cycle)
mtx_mpyt8x16	40x83 x 83x8	10047 (2.6 MACs/cycle)
mtx_mpyt8x16	2x100 x 100x8	888 (1.8 MACs/cycle)
mtx_mpyt8x16	8x80 x 80x2	1120 (1.1 MACs/cycle)
mtx_mpyt8x16	8x4 x 4x2	365 (0.2 MACs/cycle)
mtx_mpyt8x16	8x16 x 16x2	479 (0.5 MACs/cycle)
mtx_mpyt8x16	8x32 x 32x2	641 (0.8 MACs/cycle)
mtx_mpyt8x16_fast	16x16 x 16x16	1423 (2.9 MACs/cycle)
mtx_mpyt8x16_fast	32x32 x 32x32	8160 (4.0 MACs/cycle)
mtx_mpyt8x16_fast	8x80 x 80x4	526 (4.9 MACs/cycle)
mtx_mpyt8x16_fast	8x84 x 84x4	537 (5.0 MACs/cycle)
mtx_mpyt8x16_fast	8x4 x 4x4	140 (0.9 MACs/cycle)
mtx_mpyt8x16_fast	8x16 x 16x4	201 (2.5 MACs/cycle)
mtx_mpyt8x16_fast	8x32 x 32x4	285 (3.6 MACs/cycle)
mtx_mpy16x16	16x16 x 16x16	1697 (2.4 MACs/cycle)
mtx_mpy16x16	32x32 x 32x32	8389 (3.9 MACs/cycle)
mtx_mpy16x16	40x80 x 80x8	4742 (5.4 MACs/cycle)
mtx_mpy16x16	40x81 x 81x8	4938 (5.2 MACs/cycle)
mtx_mpy16x16	40x82 x 82x8	4940 (5.3 MACs/cycle)
mtx_mpy16x16	40x83 x 83x8	4952 (5.4 MACs/cycle)
mtx_mpy16x16	40x84 x 84x8	4942 (5.4 MACs/cycle)
mtx_mpy16x16	40x85 x 85x8	5116 (5.3 MACs/cycle)
mtx_mpy16x16	40x86 x 86x8	5119 (5.4 MACs/cycle)
mtx_mpy16x16	40x87 x 87x8	5140 (5.4 MACs/cycle)
mtx_mpy16x16	40x88 x 88x8	5100 (5.5 MACs/cycle)
mtx_mpy16x16	2x100 x 100x8	853 (1.9 MACs/cycle)
mtx_mpy16x16	8x80 x 80x2	621 (2.1 MACs/cycle)
mtx_mpy16x16	8x4 x 4x2	196 (0.3 MACs/cycle)
mtx_mpy16x16	8x16 x 16x2	269 (1.0 MACs/cycle)
mtx_mpy16x16	8x32 x 32x2	356 (1.4 MACs/cycle)
mtx_mpy16x16_fast	16x16 x 16x16	1679 (2.4 MACs/cycle)
mtx_mpy16x16_fast	32x32 x 32x32	10575 (3.1 MACs/cycle)
mtx_mpy16x16_fast	8x80 x 80x4	587 (4.4 MACs/cycle)
mtx_mpy16x16_fast	8x84 x 84x4	531 (5.1 MACs/cycle)
mtx_mpy16x16_fast	8x4 x 4x4	135 (0.9 MACs/cycle)
mtx_mpy16x16_fast	8x16 x 16x4	203 (2.5 MACs/cycle)
mtx_mpy16x16_fast	8x32 x 32x4	299 (3.4 MACs/cycle)
mtx_mpyt16x16	16x16 x 16x16	1542 (2.7 MACs/cycle)
mtx_mpyt16x16	32x32 x 32x32	7806 (4.2 MACs/cycle)
mtx_mpyt16x16	40x80 x 80x8	4474 (5.7 MACs/cycle)
mtx_mpyt16x16	40x81 x 81x8	4618 (5.6 MACs/cycle)
mtx_mpyt16x16	40x82 x 82x8	4619 (5.7 MACs/cycle)
mtx_mpyt16x16	40x83 x 83x8	4625 (5.7 MACs/cycle)
mtx_mpyt16x16	2x100 x 100x8	612 (2.6 MACs/cycle)
mtx_mpyt16x16	8x80 x 80x2	531 (2.4 MACs/cycle)
mtx_mpyt16x16	8x4 x 4x2	198 (0.3 MACs/cycle)
mtx_mpyt16x16	8x16 x 16x2	247 (1.0 MACs/cycle)
mtx_mpyt16x16	8x32 x 32x2	318 (1.6 MACs/cycle)
mtx_mpyt16x16_fast	16x16 x 16x16	1455 (2.8 MACs/cycle)
mtx_mpyt16x16_fast	32x32 x 32x32	7776 (4.2 MACs/cycle)
mtx_mpyt16x16_fast	8x80 x 80x4	465 (5.5 MACs/cycle)
mtx_mpyt16x16_fast	8x84 x 84x4	469 (5.7 MACs/cycle)
mtx_mpyt16x16_fast	8x4 x 4x4	139 (0.9 MACs/cycle)
mtx_mpyt16x16_fast	8x16 x 16x4	205 (2.5 MACs/cycle)
mtx_mpyt16x16_fast	8x32 x 32x4	273 (3.8 MACs/cycle)
mtx_mpy32x32	16x16 x 16x16	2838 (1.4 MACs/cycle)
mtx_mpy32x32	32x32 x 32x32	14710 (2.2 MACs/cycle)
mtx_mpy32x32	40x80 x 80x8	8994 (2.8 MACs/cycle)
mtx_mpy32x32	40x81 x 81x8	9219 (2.8 MACs/cycle)
mtx_mpy32x32	40x82 x 82x8	9207 (2.9 MACs/cycle)
mtx_mpy32x32	40x83 x 83x8	9553 (2.8 MACs/cycle)
mtx_mpy32x32	2x100 x 100x8	1389 (1.2 MACs/cycle)
mtx_mpy32x32	8x80 x 80x2	809 (1.6 MACs/cycle)
mtx_mpy32x32	8x4 x 4x2	158 (0.4 MACs/cycle)
mtx_mpy32x32	8x16 x 16x2	265 (1.0 MACs/cycle)
mtx_mpy32x32	8x32 x 32x2	401 (1.3 MACs/cycle)
mtx_mpy32x32_fast	16x16 x 16x16	1815 (2.3 MACs/cycle)
mtx_mpy32x32_fast	32x32 x 32x32	11726 (2.8 MACs/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
mtx_mpy32x32_fast	8x80 x 80x4	819 (3.1 MACs/cycle)
mtx_mpy32x32_fast	8x84 x 84x4	856 (3.1 MACs/cycle)
mtx_mpy32x32_fast	8x4 x 4x4	140 (0.9 MACs/cycle)
mtx_mpy32x32_fast	8x16 x 16x4	242 (2.1 MACs/cycle)
mtx_mpy32x32_fast	8x32 x 32x4	386 (2.7 MACs/cycle)
mtx_mpyt32x32	16x16 x 16x16	3261 (1.3 MACs/cycle)
mtx_mpyt32x32	32x32 x 32x32	17588 (1.9 MACs/cycle)
mtx_mpyt32x32	40x80 x 80x8	10493 (2.4 MACs/cycle)
mtx_mpyt32x32	40x81 x 81x8	10646 (2.4 MACs/cycle)
mtx_mpyt32x32	40x82 x 82x8	10620 (2.5 MACs/cycle)
mtx_mpyt32x32	40x83 x 83x8	10892 (2.4 MACs/cycle)
mtx_mpyt32x32	2x100 x 100x8	1249 (1.3 MACs/cycle)
mtx_mpyt32x32	8x80 x 80x2	663 (1.9 MACs/cycle)
mtx_mpyt32x32	8x4 x 4x2	195 (0.3 MACs/cycle)
mtx_mpyt32x32	8x16 x 16x2	263 (1.0 MACs/cycle)
mtx_mpyt32x32	8x32 x 32x2	363 (1.4 MACs/cycle)
mtx_mpyt32x32_fast	16x16 x 16x16	1712 (2.4 MACs/cycle)
mtx_mpyt32x32_fast	32x32 x 32x32	10767 (3.0 MACs/cycle)
mtx_mpyt32x32_fast	8x80 x 80x4	748 (3.4 MACs/cycle)
mtx_mpyt32x32_fast	8x84 x 84x4	767 (3.5 MACs/cycle)
mtx_mpyt32x32_fast	8x4 x 4x4	131 (1.0 MACs/cycle)
mtx_mpyt32x32_fast	8x16 x 16x4	235 (2.2 MACs/cycle)
mtx_mpyt32x32_fast	8x32 x 32x4	362 (2.8 MACs/cycle)
mtx_vecmpy8x8	16x100 x 100x1	2010 (0.8 MACs/cycle)
mtx_vecmpy8x8	16x104 x 104x1	2082 (0.8 MACs/cycle)
mtx_vecmpy8x8	40x40 x 40x1	2258 (0.7 MACs/cycle)
mtx_vecmpy8x8_fast	16x100 x 100x1	386 (4.1 MACs/cycle)
mtx_vecmpy8x8_fast	16x104 x 104x1	352 (4.7 MACs/cycle)
mtx_vecmpy8x8_fast	40x40 x 40x1	450 (3.6 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	347 (4.6 MACs/cycle)
mtx_vecmpy8x16_fast	16x104 x 104x1	334 (5.0 MACs/cycle)
mtx_vecmpy8x16_fast	40x40 x 40x1	407 (3.9 MACs/cycle)
mtx_vecmpy16x16	16x100 x 100x1	648 (2.5 MACs/cycle)
mtx_vecmpy16x16	16x104 x 104x1	695 (2.4 MACs/cycle)
mtx_vecmpy16x16	40x40 x 40x1	898 (1.8 MACs/cycle)
mtx_vecmpy16x16_fast	16x100 x 100x1	318 (5.0 MACs/cycle)
mtx_vecmpy16x16_fast	16x104 x 104x1	326 (5.1 MACs/cycle)
mtx_vecmpy16x16_fast	40x40 x 40x1	394 (4.1 MACs/cycle)
mtx_vecmpy32x32	16x100 x 100x1	1389 (1.2 MACs/cycle)
mtx_vecmpy32x32	16x101 x 101x1	1383 (1.2 MACs/cycle)
mtx_vecmpy32x32	16x102 x 102x1	1401 (1.2 MACs/cycle)
mtx_vecmpy32x32	16x103 x 103x1	1399 (1.2 MACs/cycle)
mtx_vecmpy32x32	16x104 x 104x1	1429 (1.2 MACs/cycle)
mtx_vecmpy32x32	40x40 x 40x1	1621 (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)
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	1653 (0.44 pts/cycle)
mtx_transpose8x8	M=32,N=32	2277 (0.45 pts/cycle)
mtx_transpose8x8	M=39,N=39	3320 (0.46 pts/cycle)
mtx_transpose8x8	M=48,N=48	4949 (0.47 pts/cycle)
mtx_transpose8x8_fast	M=8,N=8	70 (0.91 pts/cycle)
mtx_transpose8x8_fast	M=16,N=16	183 (1.40 pts/cycle)
mtx_transpose8x8_fast	M=32,N=32	572 (1.79 pts/cycle)
mtx_transpose8x8_fast	M=48,N=48	1136 (2.03 pts/cycle)
mtx_transpose16x16	M=16,N=16	530 (0.48 pts/cycle)
mtx_transpose16x16	M=27,N=27	1300 (0.56 pts/cycle)
mtx_transpose16x16	M=32,N=32	1606 (0.64 pts/cycle)
mtx_transpose16x16	M=39,N=39	2337 (0.65 pts/cycle)
mtx_transpose16x16	M=48,N=48	3218 (0.72 pts/cycle)
mtx_transpose16x16_fast	M=8,N=8	61 (1.05 pts/cycle)
mtx_transpose16x16_fast	M=16,N=16	196 (1.31 pts/cycle)
mtx_transpose16x16_fast	M=32,N=32	547 (1.87 pts/cycle)
mtx_transpose16x16_fast	M=48,N=48	1093 (2.11 pts/cycle)
mtx_transpose32x32	M=16,N=16	416 (0.62 pts/cycle)
mtx_transpose32x32	M=27,N=27	986 (0.74 pts/cycle)
mtx_transpose32x32	M=32,N=32	1396 (0.73 pts/cycle)
mtx_transpose32x32	M=39,N=39	1884 (0.81 pts/cycle)
mtx_transpose32x32	M=48,N=48	2952 (0.78 pts/cycle)
mtx_transpose32x32_fast	M=8,N=8	79 (0.81 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
mtx_transpose32x32_fast	M=16,N=16	231 (1.11 pts/cycle)
mtx_transpose32x32_fast	M=32,N=32	776 (1.32 pts/cycle)
mtx_transpose32x32_fast	M=48,N=48	1642 (1.40 pts/cycle)
mtx_mpyf	16x16 x 16x16	1727 (2.4 MACs/cycle)
mtx_mpyf	32x32 x 32x32	11497 (2.9 MACs/cycle)
mtx_mpyf	40x80 x 80x8	8333 (3.1 MACs/cycle)
mtx_mpyf	40x81 x 81x8	8433 (3.1 MACs/cycle)
mtx_mpyf	40x82 x 82x8	8513 (3.1 MACs/cycle)
mtx_mpyf	40x83 x 83x8	8623 (3.1 MACs/cycle)
mtx_mpyf	2x100 x 100x8	2519 (0.6 MACs/cycle)
mtx_mpyf	8x80 x 80x2	844 (1.5 MACs/cycle)
mtx_mpyf	8x4 x 4x2	152 (0.4 MACs/cycle)
mtx_mpyf	8x16 x 16x2	268 (1.0 MACs/cycle)
mtx_mpyf	8x32 x 32x2	412 (1.2 MACs/cycle)
mtx_mpyf_fast	16x16 x 16x16	1956 (2.1 MACs/cycle)
mtx_mpyf_fast	32x32 x 32x32	12268 (2.7 MACs/cycle)
mtx_mpyf_fast	8x80 x 80x4	842 (3.0 MACs/cycle)
mtx_mpyf_fast	8x84 x 84x4	874 (3.1 MACs/cycle)
mtx_mpyf_fast	8x4 x 4x4	150 (0.9 MACs/cycle)
mtx_mpyf_fast	8x16 x 16x4	266 (1.9 MACs/cycle)
mtx_mpyf_fast	8x32 x 32x4	410 (2.5 MACs/cycle)
mtx_mpytf	16x16 x 16x16	2022 (2.0 MACs/cycle)
mtx_mpytf	32x32 x 32x32	11758 (2.8 MACs/cycle)
mtx_mpytf	40x80 x 80x8	7798 (3.3 MACs/cycle)
mtx_mpytf	40x81 x 81x8	7883 (3.3 MACs/cycle)
mtx_mpytf	40x82 x 82x8	7964 (3.3 MACs/cycle)
mtx_mpytf	40x83 x 83x8	7990 (3.3 MACs/cycle)
mtx_mpytf	2x100 x 100x8	1572 (1.0 MACs/cycle)
mtx_mpytf	8x80 x 80x2	782 (1.6 MACs/cycle)
mtx_mpytf	8x4 x 4x2	174 (0.4 MACs/cycle)
mtx_mpytf	8x16 x 16x2	270 (0.9 MACs/cycle)
mtx_mpytf	8x32 x 32x2	398 (1.3 MACs/cycle)
mtx_mpytf_fast	16x16 x 16x16	1973 (2.1 MACs/cycle)
mtx_mpytf_fast	32x32 x 32x32	11805 (2.8 MACs/cycle)
mtx_mpytf_fast	8x80 x 80x4	779 (3.3 MACs/cycle)
mtx_mpytf_fast	8x84 x 84x4	807 (3.3 MACs/cycle)
mtx_mpytf_fast	8x4 x 4x4	167 (0.8 MACs/cycle)
mtx_mpytf_fast	8x16 x 16x4	267 (1.9 MACs/cycle)
mtx_mpytf_fast	8x32 x 32x4	395 (2.6 MACs/cycle)
mtx_vecmpyf	16x100 x 100x1	872 (1.8 MACs/cycle)
mtx_vecmpyf	16x101 x 101x1	919 (1.8 MACs/cycle)
mtx_vecmpyf	16x102 x 102x1	878 (1.9 MACs/cycle)
mtx_vecmpyf	16x103 x 103x1	1034 (1.6 MACs/cycle)
mtx_vecmpyf	16x104 x 104x1	1100 (1.5 MACs/cycle)
mtx_vecmpyf	40x40 x 40x1	1262 (1.3 MACs/cycle)
mtx_vecmpyf_fast	16x100 x 100x1	605 (2.6 MACs/cycle)
mtx_vecmpyf_fast	16x104 x 104x1	634 (2.6 MACs/cycle)
mtx_vecmpyf_fast	40x40 x 40x1	769 (2.1 MACs/cycle)
mtx_transposef	M=16,N=16	424 (0.60 pts/cycle)
mtx_transposef	M=27,N=27	993 (0.73 pts/cycle)
mtx_transposef	M=32,N=32	1404 (0.73 pts/cycle)
mtx_transposef	M=39,N=39	1892 (0.80 pts/cycle)
mtx_transposef	M=48,N=48	2960 (0.78 pts/cycle)
mtx_transposef_fast	M=8,N=8	87 (0.74 pts/cycle)
mtx_transposef_fast	M=16,N=16	238 (1.08 pts/cycle)
mtx_transposef_fast	M=32,N=32	784 (1.31 pts/cycle)
mtx_transposef_fast	M=48,N=48	1648 (1.40 pts/cycle)
Matrix Decomposition and Inversion		
Gauss-Jordan		
cmtx_inv2x2_32x32		353 (353.0 cycles/matrix)
cmtx_inv3x3_32x32		675 (675.0 cycles/matrix)
cmtx_inv4x4_32x32		1165 (1165.0 cycles/matrix)
cmtx_inv6x6_32x32		2957 (2957.0 cycles/matrix)
cmtx_inv8x8_32x32		5650 (5650.0 cycles/matrix)
cmtx_inv10x10_32x32		10264 (10264.0 cycles/matrix)
mtx_inv2x2_32x32		38 (38.0 cycles/matrix)
mtx_inv3x3_32x32		417 (417.0 cycles/matrix)
mtx_inv4x4_32x32		638 (638.0 cycles/matrix)
mtx_inv6x6_32x32		1640 (1640.0 cycles/matrix)
mtx_inv8x8_32x32		2923 (2923.0 cycles/matrix)
mtx_inv10x10_32x32		5487 (5487.0 cycles/matrix)
cmtx_gjelim2x2_32x32		313 (313.0 cycles/matrix)
cmtx_gjelim3x3_32x32		520 (520.0 cycles/matrix)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
cmtx_gjelim4x4_32x32		977 (977.0 cycles/matrix)
cmtx_gjelim6x6_32x32		2054 (2054.0 cycles/matrix)
cmtx_gjelim8x8_32x32		3692 (3692.0 cycles/matrix)
cmtx_gjelim10x10_32x32		5991 (5991.0 cycles/matrix)
mtx_gjelim2x2_32x32		38 (38.0 cycles/matrix)
mtx_gjelim3x3_32x32		408 (408.0 cycles/matrix)
mtx_gjelim4x4_32x32		584 (584.0 cycles/matrix)
mtx_gjelim6x6_32x32		1442 (1442.0 cycles/matrix)
mtx_gjelim8x8_32x32		2367 (2367.0 cycles/matrix)
mtx_gjelim10x10_32x32		3794 (3794.0 cycles/matrix)
mtx_inv2x2f		32 (32.0 cycles/matrix)
mtx_inv3x3f		178 (178.0 cycles/matrix)
mtx_inv4x4f		272 (272.0 cycles/matrix)
mtx_inv6x6f		798 (798.0 cycles/matrix)
mtx_inv8x8f		1492 (1492.0 cycles/matrix)
mtx_inv10x10f		2720 (2720.0 cycles/matrix)
Matrix Decomposition and Inversion		
Cholesky		
cmatcholdecomp4x4_32x32	4x4	652 (652.0 cycles/matrix)
cmatcholdecomp6x6_32x32	6x6	1238 (1238.0 cycles/matrix)
cmatcholdecomp8x8_32x32	8x8	2184 (2184.0 cycles/matrix)
cmatcholdecomp10x10_32x32	10x10	3376 (3376.0 cycles/matrix)
cmatcholfwdsubst4x4_32x32	4x4x1	126 (126.0 cycles/matrix)
cmatcholfwdsubst6x6_32x32	6x6x1	203 (203.0 cycles/matrix)
cmatcholfwdsubst8x8_32x32	8x8x1	310 (310.0 cycles/matrix)
cmatcholfwdsubst10x10_32x32	10x10x1	469 (469.0 cycles/matrix)
cmatcholbkwsubst4x4_32x32	4x1	121 (121.0 cycles/matrix)
cmatcholbkwsubst6x6_32x32	6x1	153 (153.0 cycles/matrix)
cmatcholbkwsubst8x8_32x32	8x1	215 (215.0 cycles/matrix)
cmatcholbkwsubst10x10_32x32	10x1	289 (289.0 cycles/matrix)
cmatcholmmsesolver4x4_32x32	4x4x1	970 (970.0 cycles/matrix)
cmatcholmmsesolver6x6_32x32	6x6x1	1670 (1670.0 cycles/matrix)
cmatcholmmsesolver8x8_32x32	8x8x1	2785 (2785.0 cycles/matrix)
cmatcholmmsesolver10x10_32x32	10x10x1	4199 (4199.0 cycles/matrix)
cmatcholpreprocess4x4_32x32	4x4	182 (182.0 cycles/matrix)
cmatcholpreprocess6x6_32x32	6x6	423 (423.0 cycles/matrix)
cmatcholpreprocess8x8_32x32	8x8	815 (815.0 cycles/matrix)
cmatcholpreprocess10x10_32x32	10x10	1350 (1350.0 cycles/matrix)
cmatcholpseudoinv4x4_32x32	4x4	1661 (1661.0 cycles/matrix)
cmatcholpseudoinv6x6_32x32	6x6	3390 (3390.0 cycles/matrix)
cmatcholpseudoinv8x8_32x32	8x8	6135 (6135.0 cycles/matrix)
cmatcholpseudoinv10x10_32x32	10x10	9563 (9563.0 cycles/matrix)
matcholdecomp4x4_32x32	4x4	633 (633.0 cycles/matrix)
matcholdecomp6x6_32x32	6x6	1137 (1137.0 cycles/matrix)
matcholdecomp8x8_32x32	8x8	1808 (1808.0 cycles/matrix)
matcholdecomp10x10_32x32	10x10	2667 (2667.0 cycles/matrix)
matcholfwdsubst4x4_32x32	4x4x1	119 (119.0 cycles/matrix)
matcholfwdsubst6x6_32x32	6x6x1	173 (173.0 cycles/matrix)
matcholfwdsubst8x8_32x32	8x8x1	256 (256.0 cycles/matrix)
matcholfwdsubst10x10_32x32	10x10x1	325 (325.0 cycles/matrix)
matcholbkwsubst4x4_32x32	4x1	84 (84.0 cycles/matrix)
matcholbkwsubst6x6_32x32	6x1	123 (123.0 cycles/matrix)
matcholbkwsubst8x8_32x32	8x1	182 (182.0 cycles/matrix)
matcholbkwsubst10x10_32x32	10x1	235 (235.0 cycles/matrix)
matcholmmsesolver4x4_32x32	4x4x1	903 (903.0 cycles/matrix)
matcholmmsesolver6x6_32x32	6x6x1	1502 (1502.0 cycles/matrix)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
matcholmmsesolver8x8_32x32	8x8x1	2317 (2317.0 cycles/matrix)
matcholmmsesolver10x10_32x32	10x10x1	3304 (3304.0 cycles/matrix)
matcholpreprocess4x4_32x32	4x4	111 (111.0 cycles/matrix)
matcholpreprocess6x6_32x32	6x6	232 (232.0 cycles/matrix)
matcholpreprocess8x8_32x32	8x8	420 (420.0 cycles/matrix)
matcholpreprocess10x10_32x32	10x10	695 (695.0 cycles/matrix)
matcholpseudoinv4x4_32x32	4x4	1368 (1368.0 cycles/matrix)
matcholpseudoinv6x6_32x32	6x6	2701 (2701.0 cycles/matrix)
matcholpseudoinv8x8_32x32	8x8	4578 (4578.0 cycles/matrix)
matcholpseudoinv10x10_32x32	10x10	7058 (7058.0 cycles/matrix)
cmatcholdecomp4x4f	4x4	522 (522.0 cycles/matrix)
cmatcholdecomp6x6f	6x6	1001 (1001.0 cycles/matrix)
cmatcholdecomp8x8f	8x8	1634 (1634.0 cycles/matrix)
cmatcholdecomp10x10f	10x10	2429 (2429.0 cycles/matrix)
cmatcholfwdsubst4x4f	4x4x1	93 (93.0 cycles/matrix)
cmatcholfwdsubst6x6f	6x6x1	145 (145.0 cycles/matrix)
cmatcholfwdsubst8x8f	8x8x1	207 (207.0 cycles/matrix)
cmatcholfwdsubst10x10f	10x10x1	267 (267.0 cycles/matrix)
cmatcholbkwsubst4x4f	4x1	44 (44.0 cycles/matrix)
cmatcholbkwsubst6x6f	6x1	70 (70.0 cycles/matrix)
cmatcholbkwsubst8x8f	8x1	100 (100.0 cycles/matrix)
cmatcholbkwsubst10x10f	10x1	123 (123.0 cycles/matrix)
cmatcholmmsesolver4x4f	4x4x1	731 (731.0 cycles/matrix)
cmatcholmmsesolver6x6f	6x6x1	1290 (1290.0 cycles/matrix)
cmatcholmmsesolver8x8f	8x8x1	2009 (2009.0 cycles/matrix)
cmatcholmmsesolver10x10f	10x10x1	2901 (2901.0 cycles/matrix)
cmatcholpreprocess4x4f	4x4	110 (110.0 cycles/matrix)
cmatcholpreprocess6x6f	6x6	297 (297.0 cycles/matrix)
cmatcholpreprocess8x8f	8x8	569 (569.0 cycles/matrix)
cmatcholpreprocess10x10f	10x10	943 (943.0 cycles/matrix)
cmatcholpseudoinv4x4f	4x4	864 (864.0 cycles/matrix)
cmatcholpseudoinv6x6f	6x6	1634 (1634.0 cycles/matrix)
cmatcholpseudoinv8x8f	8x8	2824 (2824.0 cycles/matrix)
cmatcholpseudoinv10x10f	10x10	4392 (4392.0 cycles/matrix)
matcholdecomp4x4f	4x4	407 (407.0 cycles/matrix)
matcholdecomp6x6f	6x6	762 (762.0 cycles/matrix)
matcholdecomp8x8f	8x8	1232 (1232.0 cycles/matrix)
matcholdecomp10x10f	10x10	1681 (1681.0 cycles/matrix)
matcholfwdsubst4x4f	4x4x1	72 (72.0 cycles/matrix)
matcholfwdsubst6x6f	6x6x1	98 (98.0 cycles/matrix)
matcholfwdsubst8x8f	8x8x1	129 (129.0 cycles/matrix)
matcholfwdsubst10x10f	10x10x1	160 (160.0 cycles/matrix)
matcholbkwsubst4x4f	4x1	34 (34.0 cycles/matrix)
matcholbkwsubst6x6f	6x1	52 (52.0 cycles/matrix)
matcholbkwsubst8x8f	8x1	67 (67.0 cycles/matrix)
matcholbkwsubst10x10f	10x1	83 (83.0 cycles/matrix)
matcholmmsesolver4x4f	4x4x1	582 (582.0 cycles/matrix)
matcholmmsesolver6x6f	6x6x1	980 (980.0 cycles/matrix)
matcholmmsesolver8x8f	8x8x1	1496 (1496.0 cycles/matrix)
matcholmmsesolver10x10f	10x10x1	1992 (1992.0 cycles/matrix)
matcholpreprocess4x4f	4x4	41 (41.0 cycles/matrix)
matcholpreprocess6x6f	6x6	140 (140.0 cycles/matrix)
matcholpreprocess8x8f	8x8	301 (301.0 cycles/matrix)
matcholpreprocess10x10f	10x10	428 (428.0 cycles/matrix)
matcholpseudoinv4x4f	4x4	668 (668.0 cycles/matrix)
matcholpseudoinv6x6f	6x6	1185 (1185.0 cycles/matrix)
matcholpseudoinv8x8f	8x8	1871 (1871.0 cycles/matrix)
matcholpseudoinv10x10f	10x10	2671 (2671.0 cycles/matrix)
Fitting and Interpolation		
Polynomial Fitting		
vec_poly4_32x32	N=200	376 (1.9 cycles/pts)
vec_poly8_32x32	N=200	624 (3.1 cycles/pts)
vec_poly4f	N=200	407 (2.0 cycles/pts)
vec_poly8f	N=200	787 (3.9 cycles/pts)
FFT Routines		
Complex FFT		
fft_cplx16x16	N=16, scaling=3	135 (0.119 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_cplx16x16	N=16, scaling=2	174 (0.092 pts/cycle)
fft_cplx16x16	N=32, scaling=3	188 (0.170 pts/cycle)
fft_cplx16x16	N=32, scaling=2	247 (0.130 pts/cycle)
fft_cplx16x16	N=64, scaling=3	425 (0.151 pts/cycle)
fft_cplx16x16	N=64, scaling=2	537 (0.119 pts/cycle)
fft_cplx16x16	N=128, scaling=3	886 (0.144 pts/cycle)
fft_cplx16x16	N=128, scaling=2	1082 (0.118 pts/cycle)
fft_cplx16x16	N=256, scaling=3	1797 (0.142 pts/cycle)
fft_cplx16x16	N=256, scaling=2	2205 (0.116 pts/cycle)
fft_cplx16x16	N=512, scaling=3	3870 (0.132 pts/cycle)
fft_cplx16x16	N=512, scaling=2	4638 (0.110 pts/cycle)
fft_cplx16x16	N=1024, scaling=3	8085 (0.127 pts/cycle)
fft_cplx16x16	N=1024, scaling=2	9769 (0.105 pts/cycle)
fft_cplx16x16	N=2048, scaling=3	17979 (0.114 pts/cycle)
fft_cplx16x16	N=2048, scaling=2	21293 (0.096 pts/cycle)
fft_cplx16x16	N=4096, scaling=3	37849 (0.108 pts/cycle)
fft_cplx16x16	N=4096, scaling=2	45207 (0.091 pts/cycle)
fft_cplx32x16	N=16, scaling=3	139 (0.115 pts/cycle)
fft_cplx32x16	N=16, scaling=2	191 (0.084 pts/cycle)
fft_cplx32x16	N=32, scaling=3	205 (0.156 pts/cycle)
fft_cplx32x16	N=32, scaling=2	262 (0.122 pts/cycle)
fft_cplx32x16	N=64, scaling=3	406 (0.158 pts/cycle)
fft_cplx32x16	N=64, scaling=2	507 (0.126 pts/cycle)
fft_cplx32x16	N=128, scaling=3	788 (0.162 pts/cycle)
fft_cplx32x16	N=128, scaling=2	924 (0.139 pts/cycle)
fft_cplx32x16	N=256, scaling=3	1656 (0.155 pts/cycle)
fft_cplx32x16	N=256, scaling=2	1904 (0.134 pts/cycle)
fft_cplx32x16	N=512, scaling=3	3550 (0.144 pts/cycle)
fft_cplx32x16	N=512, scaling=2	3954 (0.129 pts/cycle)
fft_cplx32x16	N=1024, scaling=3	7631 (0.134 pts/cycle)
fft_cplx32x16	N=1024, scaling=2	8434 (0.121 pts/cycle)
fft_cplx32x16	N=2048, scaling=3	16686 (0.123 pts/cycle)
fft_cplx32x16	N=2048, scaling=2	18140 (0.113 pts/cycle)
fft_cplx32x16	N=4096, scaling=3	35831 (0.114 pts/cycle)
fft_cplx32x16	N=4096, scaling=2	38839 (0.105 pts/cycle)
fft_cplx32x32	N=16, scaling=3	156 (0.103 pts/cycle)
fft_cplx32x32	N=16, scaling=2	186 (0.086 pts/cycle)
fft_cplx32x32	N=32, scaling=3	209 (0.153 pts/cycle)
fft_cplx32x32	N=32, scaling=2	321 (0.100 pts/cycle)
fft_cplx32x32	N=64, scaling=3	429 (0.149 pts/cycle)
fft_cplx32x32	N=64, scaling=2	512 (0.125 pts/cycle)
fft_cplx32x32	N=128, scaling=3	745 (0.172 pts/cycle)
fft_cplx32x32	N=128, scaling=2	958 (0.134 pts/cycle)
fft_cplx32x32	N=256, scaling=3	1611 (0.159 pts/cycle)
fft_cplx32x32	N=256, scaling=2	1904 (0.134 pts/cycle)
fft_cplx32x32	N=512, scaling=3	3182 (0.161 pts/cycle)
fft_cplx32x32	N=512, scaling=2	3788 (0.135 pts/cycle)
fft_cplx32x32	N=1024, scaling=3	7011 (0.146 pts/cycle)
fft_cplx32x32	N=1024, scaling=2	7953 (0.129 pts/cycle)
fft_cplx32x32	N=2048, scaling=3	14883 (0.138 pts/cycle)
fft_cplx32x32	N=2048, scaling=2	17289 (0.118 pts/cycle)
fft_cplx32x32	N=4096, scaling=3	31985 (0.128 pts/cycle)
fft_cplx32x32	N=4096, scaling=2	35624 (0.115 pts/cycle)
ifft_cplx16x16	N=16, scaling=3	140 (0.114 pts/cycle)
ifft_cplx16x16	N=16, scaling=2	191 (0.084 pts/cycle)
ifft_cplx16x16	N=32, scaling=3	197 (0.162 pts/cycle)
ifft_cplx16x16	N=32, scaling=2	265 (0.121 pts/cycle)
ifft_cplx16x16	N=64, scaling=3	436 (0.147 pts/cycle)
ifft_cplx16x16	N=64, scaling=2	554 (0.116 pts/cycle)
ifft_cplx16x16	N=128, scaling=3	899 (0.142 pts/cycle)
ifft_cplx16x16	N=128, scaling=2	1100 (0.116 pts/cycle)
ifft_cplx16x16	N=256, scaling=3	1814 (0.141 pts/cycle)
ifft_cplx16x16	N=256, scaling=2	2222 (0.115 pts/cycle)
ifft_cplx16x16	N=512, scaling=3	3896 (0.131 pts/cycle)
ifft_cplx16x16	N=512, scaling=2	4655 (0.110 pts/cycle)
ifft_cplx16x16	N=1024, scaling=3	8126 (0.126 pts/cycle)
ifft_cplx16x16	N=1024, scaling=2	9787 (0.105 pts/cycle)
ifft_cplx16x16	N=2048, scaling=3	18052 (0.113 pts/cycle)
ifft_cplx16x16	N=2048, scaling=2	21310 (0.096 pts/cycle)
ifft_cplx16x16	N=4096, scaling=3	37986 (0.108 pts/cycle)
ifft_cplx16x16	N=4096, scaling=2	45224 (0.091 pts/cycle)
ifft_cplx32x16	N=16, scaling=3	138 (0.116 pts/cycle)
ifft_cplx32x16	N=16, scaling=2	202 (0.079 pts/cycle)
ifft_cplx32x16	N=32, scaling=3	200 (0.160 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
ifft_cplx32x16	N=32, scaling=2	281 (0.114 pts/cycle)
ifft_cplx32x16	N=64, scaling=3	402 (0.159 pts/cycle)
ifft_cplx32x16	N=64, scaling=2	532 (0.120 pts/cycle)
ifft_cplx32x16	N=128, scaling=3	784 (0.163 pts/cycle)
ifft_cplx32x16	N=128, scaling=2	954 (0.134 pts/cycle)
ifft_cplx32x16	N=256, scaling=3	1651 (0.155 pts/cycle)
ifft_cplx32x16	N=256, scaling=2	1950 (0.131 pts/cycle)
ifft_cplx32x16	N=512, scaling=3	3544 (0.144 pts/cycle)
ifft_cplx32x16	N=512, scaling=2	4033 (0.127 pts/cycle)
ifft_cplx32x16	N=1024, scaling=3	7623 (0.134 pts/cycle)
ifft_cplx32x16	N=1024, scaling=2	8576 (0.119 pts/cycle)
ifft_cplx32x16	N=2048, scaling=3	16681 (0.123 pts/cycle)
ifft_cplx32x16	N=2048, scaling=2	18410 (0.111 pts/cycle)
ifft_cplx32x16	N=4096, scaling=3	35827 (0.114 pts/cycle)
ifft_cplx32x16	N=4096, scaling=2	39367 (0.104 pts/cycle)
ifft_cplx32x32	N=16, scaling=3	142 (0.113 pts/cycle)
ifft_cplx32x32	N=16, scaling=2	186 (0.086 pts/cycle)
ifft_cplx32x32	N=32, scaling=3	203 (0.158 pts/cycle)
ifft_cplx32x32	N=32, scaling=2	318 (0.101 pts/cycle)
ifft_cplx32x32	N=64, scaling=3	426 (0.150 pts/cycle)
ifft_cplx32x32	N=64, scaling=2	512 (0.125 pts/cycle)
ifft_cplx32x32	N=128, scaling=3	755 (0.170 pts/cycle)
ifft_cplx32x32	N=128, scaling=2	957 (0.134 pts/cycle)
ifft_cplx32x32	N=256, scaling=3	1631 (0.157 pts/cycle)
ifft_cplx32x32	N=256, scaling=2	1872 (0.137 pts/cycle)
ifft_cplx32x32	N=512, scaling=3	3262 (0.157 pts/cycle)
ifft_cplx32x32	N=512, scaling=2	3786 (0.135 pts/cycle)
ifft_cplx32x32	N=1024, scaling=3	7186 (0.142 pts/cycle)
ifft_cplx32x32	N=1024, scaling=2	7950 (0.129 pts/cycle)
ifft_cplx32x32	N=2048, scaling=3	15126 (0.135 pts/cycle)
ifft_cplx32x32	N=2048, scaling=2	17030 (0.120 pts/cycle)
ifft_cplx32x32	N=4096, scaling=3	32732 (0.125 pts/cycle)
ifft_cplx32x32	N=4096, scaling=2	35617 (0.115 pts/cycle)
FFT Routines		
Real FFT		
fft_real16x16	N=32, scaling=3	257 (0.125 pts/cycle)
fft_real16x16	N=32, scaling=2	300 (0.107 pts/cycle)
fft_real16x16	N=64, scaling=3	338 (0.189 pts/cycle)
fft_real16x16	N=64, scaling=2	401 (0.160 pts/cycle)
fft_real16x16	N=128, scaling=3	639 (0.200 pts/cycle)
fft_real16x16	N=128, scaling=2	755 (0.170 pts/cycle)
fft_real16x16	N=256, scaling=3	1228 (0.208 pts/cycle)
fft_real16x16	N=256, scaling=2	1428 (0.179 pts/cycle)
fft_real16x16	N=512, scaling=3	2395 (0.214 pts/cycle)
fft_real16x16	N=512, scaling=2	2807 (0.182 pts/cycle)
fft_real16x16	N=1024, scaling=3	4980 (0.206 pts/cycle)
fft_real16x16	N=1024, scaling=2	5752 (0.178 pts/cycle)
fft_real16x16	N=2048, scaling=3	10220 (0.200 pts/cycle)
fft_real16x16	N=2048, scaling=2	11908 (0.172 pts/cycle)
fft_real16x16	N=4096, scaling=3	22161 (0.185 pts/cycle)
fft_real16x16	N=4096, scaling=2	25479 (0.161 pts/cycle)
fft_real16x16	N=8192, scaling=3	46127 (0.178 pts/cycle)
fft_real16x16	N=8192, scaling=2	53489 (0.153 pts/cycle)
fft_real32x16	N=32, scaling=3	244 (0.131 pts/cycle)
fft_real32x16	N=32, scaling=2	295 (0.108 pts/cycle)
fft_real32x16	N=64, scaling=3	334 (0.192 pts/cycle)
fft_real32x16	N=64, scaling=2	390 (0.164 pts/cycle)
fft_real32x16	N=128, scaling=3	583 (0.220 pts/cycle)
fft_real32x16	N=128, scaling=2	683 (0.187 pts/cycle)
fft_real32x16	N=256, scaling=3	1061 (0.241 pts/cycle)
fft_real32x16	N=256, scaling=2	1196 (0.214 pts/cycle)
fft_real32x16	N=512, scaling=3	2121 (0.241 pts/cycle)
fft_real32x16	N=512, scaling=2	2368 (0.216 pts/cycle)
fft_real32x16	N=1024, scaling=3	4399 (0.233 pts/cycle)
fft_real32x16	N=1024, scaling=2	4802 (0.213 pts/cycle)
fft_real32x16	N=2048, scaling=3	9248 (0.221 pts/cycle)
fft_real32x16	N=2048, scaling=2	10050 (0.204 pts/cycle)
fft_real32x16	N=4096, scaling=3	19837 (0.206 pts/cycle)
fft_real32x16	N=4096, scaling=2	21290 (0.192 pts/cycle)
fft_real32x16	N=8192, scaling=3	42056 (0.195 pts/cycle)
fft_real32x16	N=8192, scaling=2	45063 (0.182 pts/cycle)
fft_real32x32	N=32, scaling=3	235 (0.136 pts/cycle)
fft_real32x32	N=32, scaling=2	280 (0.114 pts/cycle)
fft_real32x32	N=64, scaling=3	313 (0.204 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_real32x32	N=64, scaling=2	443 (0.144 pts/cycle)
fft_real32x32	N=128, scaling=3	578 (0.221 pts/cycle)
fft_real32x32	N=128, scaling=2	690 (0.186 pts/cycle)
fft_real32x32	N=256, scaling=3	991 (0.258 pts/cycle)
fft_real32x32	N=256, scaling=2	1247 (0.205 pts/cycle)
fft_real32x32	N=512, scaling=3	2050 (0.250 pts/cycle)
fft_real32x32	N=512, scaling=2	2419 (0.212 pts/cycle)
fft_real32x32	N=1024, scaling=3	4004 (0.256 pts/cycle)
fft_real32x32	N=1024, scaling=2	4749 (0.216 pts/cycle)
fft_real32x32	N=2048, scaling=3	8601 (0.238 pts/cycle)
fft_real32x32	N=2048, scaling=2	9811 (0.209 pts/cycle)
fft_real32x32	N=4096, scaling=3	18011 (0.227 pts/cycle)
fft_real32x32	N=4096, scaling=2	20940 (0.196 pts/cycle)
fft_real32x32	N=8192, scaling=3	38183 (0.215 pts/cycle)
fft_real32x32	N=8192, scaling=2	42858 (0.191 pts/cycle)
ifft_real16x16	N=32, scaling=3	274 (0.117 pts/cycle)
ifft_real16x16	N=32, scaling=2	342 (0.094 pts/cycle)
ifft_real16x16	N=64, scaling=3	362 (0.177 pts/cycle)
ifft_real16x16	N=64, scaling=2	461 (0.139 pts/cycle)
ifft_real16x16	N=128, scaling=3	665 (0.192 pts/cycle)
ifft_real16x16	N=128, scaling=2	838 (0.153 pts/cycle)
ifft_real16x16	N=256, scaling=3	1256 (0.204 pts/cycle)
ifft_real16x16	N=256, scaling=2	1560 (0.164 pts/cycle)
ifft_real16x16	N=512, scaling=3	2427 (0.211 pts/cycle)
ifft_real16x16	N=512, scaling=2	3034 (0.169 pts/cycle)
ifft_real16x16	N=1024, scaling=3	5021 (0.204 pts/cycle)
ifft_real16x16	N=1024, scaling=2	6171 (0.166 pts/cycle)
ifft_real16x16	N=2048, scaling=3	10275 (0.199 pts/cycle)
ifft_real16x16	N=2048, scaling=2	12711 (0.161 pts/cycle)
ifft_real16x16	N=4096, scaling=3	22249 (0.184 pts/cycle)
ifft_real16x16	N=4096, scaling=2	27050 (0.151 pts/cycle)
ifft_real16x16	N=8192, scaling=3	46279 (0.177 pts/cycle)
ifft_real16x16	N=8192, scaling=2	56596 (0.145 pts/cycle)
ifft_real32x16	N=32, scaling=3	205 (0.156 pts/cycle)
ifft_real32x16	N=32, scaling=2	270 (0.119 pts/cycle)
ifft_real32x16	N=64, scaling=3	297 (0.215 pts/cycle)
ifft_real32x16	N=64, scaling=2	386 (0.166 pts/cycle)
ifft_real32x16	N=128, scaling=3	565 (0.227 pts/cycle)
ifft_real32x16	N=128, scaling=2	708 (0.181 pts/cycle)
ifft_real32x16	N=256, scaling=3	1078 (0.237 pts/cycle)
ifft_real32x16	N=256, scaling=2	1277 (0.200 pts/cycle)
ifft_real32x16	N=512, scaling=3	2198 (0.233 pts/cycle)
ifft_real32x16	N=512, scaling=2	2561 (0.200 pts/cycle)
ifft_real32x16	N=1024, scaling=3	4606 (0.222 pts/cycle)
ifft_real32x16	N=1024, scaling=2	5220 (0.196 pts/cycle)
ifft_real32x16	N=2048, scaling=3	9708 (0.211 pts/cycle)
ifft_real32x16	N=2048, scaling=2	10914 (0.188 pts/cycle)
ifft_real32x16	N=4096, scaling=3	20812 (0.197 pts/cycle)
ifft_real32x16	N=4096, scaling=2	23052 (0.178 pts/cycle)
ifft_real32x16	N=8192, scaling=3	44058 (0.186 pts/cycle)
ifft_real32x16	N=8192, scaling=2	48620 (0.168 pts/cycle)
ifft_real32x32	N=32, scaling=3	230 (0.139 pts/cycle)
ifft_real32x32	N=32, scaling=2	284 (0.113 pts/cycle)
ifft_real32x32	N=64, scaling=3	321 (0.199 pts/cycle)
ifft_real32x32	N=64, scaling=2	453 (0.141 pts/cycle)
ifft_real32x32	N=128, scaling=3	610 (0.210 pts/cycle)
ifft_real32x32	N=128, scaling=2	720 (0.178 pts/cycle)
ifft_real32x32	N=256, scaling=3	1068 (0.240 pts/cycle)
ifft_real32x32	N=256, scaling=2	1309 (0.196 pts/cycle)
ifft_real32x32	N=512, scaling=3	2198 (0.233 pts/cycle)
ifft_real32x32	N=512, scaling=2	2513 (0.204 pts/cycle)
ifft_real32x32	N=1024, scaling=3	4345 (0.236 pts/cycle)
ifft_real32x32	N=1024, scaling=2	5005 (0.205 pts/cycle)
ifft_real32x32	N=2048, scaling=3	9296 (0.220 pts/cycle)
ifft_real32x32	N=2048, scaling=2	10323 (0.198 pts/cycle)
ifft_real32x32	N=4096, scaling=3	19279 (0.212 pts/cycle)
ifft_real32x32	N=4096, scaling=2	21705 (0.189 pts/cycle)
ifft_real32x32	N=8192, scaling=3	40986 (0.200 pts/cycle)
ifft_real32x32	N=8192, scaling=2	44903 (0.182 pts/cycle)
FFT Routines		
Mixed Radix Complex FFT		
fft_cplx32x32	N=12, scaling=3	206 (0.058 pts/cycle)
fft_cplx32x32	N=12, scaling=2	239 (0.050 pts/cycle)
fft_cplx32x32	N=24, scaling=3	269 (0.089 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_cplx32x32	N=24, scaling=2	463 (0.052 pts/cycle)
fft_cplx32x32	N=36, scaling=3	474 (0.076 pts/cycle)
fft_cplx32x32	N=36, scaling=2	608 (0.059 pts/cycle)
fft_cplx32x32	N=48, scaling=3	451 (0.106 pts/cycle)
fft_cplx32x32	N=48, scaling=2	525 (0.091 pts/cycle)
fft_cplx32x32	N=60, scaling=3	655 (0.092 pts/cycle)
fft_cplx32x32	N=60, scaling=2	818 (0.073 pts/cycle)
fft_cplx32x32	N=72, scaling=3	846 (0.085 pts/cycle)
fft_cplx32x32	N=72, scaling=2	1224 (0.059 pts/cycle)
fft_cplx32x32	N=80, scaling=3	652 (0.123 pts/cycle)
fft_cplx32x32	N=80, scaling=2	774 (0.103 pts/cycle)
fft_cplx32x32	N=96, scaling=3	1120 (0.086 pts/cycle)
fft_cplx32x32	N=96, scaling=2	1286 (0.075 pts/cycle)
fft_cplx32x32	N=100, scaling=3	1094 (0.091 pts/cycle)
fft_cplx32x32	N=100, scaling=2	1245 (0.080 pts/cycle)
fft_cplx32x32	N=108, scaling=3	1214 (0.089 pts/cycle)
fft_cplx32x32	N=108, scaling=2	1550 (0.070 pts/cycle)
fft_cplx32x32	N=120, scaling=3	1514 (0.079 pts/cycle)
fft_cplx32x32	N=120, scaling=2	1776 (0.068 pts/cycle)
fft_cplx32x32	N=144, scaling=3	1279 (0.113 pts/cycle)
fft_cplx32x32	N=144, scaling=2	1631 (0.088 pts/cycle)
fft_cplx32x32	N=160, scaling=3	1384 (0.116 pts/cycle)
fft_cplx32x32	N=160, scaling=2	1595 (0.100 pts/cycle)
fft_cplx32x32	N=180, scaling=3	1919 (0.094 pts/cycle)
fft_cplx32x32	N=180, scaling=2	2334 (0.077 pts/cycle)
fft_cplx32x32	N=192, scaling=3	1691 (0.114 pts/cycle)
fft_cplx32x32	N=192, scaling=2	2021 (0.095 pts/cycle)
fft_cplx32x32	N=200, scaling=3	2377 (0.084 pts/cycle)
fft_cplx32x32	N=200, scaling=2	2714 (0.074 pts/cycle)
fft_cplx32x32	N=216, scaling=3	2497 (0.087 pts/cycle)
fft_cplx32x32	N=216, scaling=2	3440 (0.063 pts/cycle)
fft_cplx32x32	N=240, scaling=3	2267 (0.106 pts/cycle)
fft_cplx32x32	N=240, scaling=2	2703 (0.089 pts/cycle)
fft_cplx32x32	N=288, scaling=3	3040 (0.095 pts/cycle)
fft_cplx32x32	N=288, scaling=2	3667 (0.079 pts/cycle)
fft_cplx32x32	N=300, scaling=3	3221 (0.093 pts/cycle)
fft_cplx32x32	N=300, scaling=2	3848 (0.078 pts/cycle)
fft_cplx32x32	N=320, scaling=3	2935 (0.109 pts/cycle)
fft_cplx32x32	N=320, scaling=2	3352 (0.095 pts/cycle)
fft_cplx32x32	N=324, scaling=3	3764 (0.086 pts/cycle)
fft_cplx32x32	N=324, scaling=2	4503 (0.072 pts/cycle)
fft_cplx32x32	N=360, scaling=3	4154 (0.087 pts/cycle)
fft_cplx32x32	N=360, scaling=2	4754 (0.076 pts/cycle)
fft_cplx32x32	N=384, scaling=3	2943 (0.130 pts/cycle)
fft_cplx32x32	N=384, scaling=2	3459 (0.111 pts/cycle)
fft_cplx32x32	N=400, scaling=3	3821 (0.105 pts/cycle)
fft_cplx32x32	N=400, scaling=2	4483 (0.089 pts/cycle)
fft_cplx32x32	N=432, scaling=3	4224 (0.102 pts/cycle)
fft_cplx32x32	N=432, scaling=2	5264 (0.082 pts/cycle)
fft_cplx32x32	N=480, scaling=3	5072 (0.095 pts/cycle)
fft_cplx32x32	N=480, scaling=2	5994 (0.080 pts/cycle)
fft_cplx32x32	N=540, scaling=3	6382 (0.085 pts/cycle)
fft_cplx32x32	N=540, scaling=2	7298 (0.074 pts/cycle)
fft_cplx32x32	N=576, scaling=3	4814 (0.120 pts/cycle)
fft_cplx32x32	N=576, scaling=2	5918 (0.097 pts/cycle)
fft_cplx32x32	N=600, scaling=3	6417 (0.094 pts/cycle)
fft_cplx32x32	N=600, scaling=2	7521 (0.080 pts/cycle)
fft_cplx32x32	N=768, scaling=3	5593 (0.137 pts/cycle)
fft_cplx32x32	N=768, scaling=2	6406 (0.120 pts/cycle)
fft_cplx32x32	N=960, scaling=3	8509 (0.113 pts/cycle)
fft_cplx32x32	N=960, scaling=2	10081 (0.095 pts/cycle)
ifft_cplx32x32	N=12, scaling=3	222 (0.054 pts/cycle)
ifft_cplx32x32	N=12, scaling=2	241 (0.050 pts/cycle)
ifft_cplx32x32	N=24, scaling=3	277 (0.087 pts/cycle)
ifft_cplx32x32	N=24, scaling=2	465 (0.052 pts/cycle)
ifft_cplx32x32	N=36, scaling=3	470 (0.077 pts/cycle)
ifft_cplx32x32	N=36, scaling=2	609 (0.059 pts/cycle)
ifft_cplx32x32	N=48, scaling=3	446 (0.108 pts/cycle)
ifft_cplx32x32	N=48, scaling=2	522 (0.092 pts/cycle)
ifft_cplx32x32	N=60, scaling=3	648 (0.093 pts/cycle)
ifft_cplx32x32	N=60, scaling=2	819 (0.073 pts/cycle)
ifft_cplx32x32	N=72, scaling=3	838 (0.086 pts/cycle)
ifft_cplx32x32	N=72, scaling=2	1217 (0.059 pts/cycle)
ifft_cplx32x32	N=80, scaling=3	651 (0.123 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
ifft_cplx32x32	N=80, scaling=2	767 (0.104 pts/cycle)
ifft_cplx32x32	N=96, scaling=3	1122 (0.086 pts/cycle)
ifft_cplx32x32	N=96, scaling=2	1285 (0.075 pts/cycle)
ifft_cplx32x32	N=100, scaling=3	1082 (0.092 pts/cycle)
ifft_cplx32x32	N=100, scaling=2	1253 (0.080 pts/cycle)
ifft_cplx32x32	N=108, scaling=3	1202 (0.090 pts/cycle)
ifft_cplx32x32	N=108, scaling=2	1556 (0.069 pts/cycle)
ifft_cplx32x32	N=120, scaling=3	1507 (0.080 pts/cycle)
ifft_cplx32x32	N=120, scaling=2	1764 (0.068 pts/cycle)
ifft_cplx32x32	N=144, scaling=3	1285 (0.112 pts/cycle)
ifft_cplx32x32	N=144, scaling=2	1613 (0.089 pts/cycle)
ifft_cplx32x32	N=160, scaling=3	1393 (0.115 pts/cycle)
ifft_cplx32x32	N=160, scaling=2	1577 (0.101 pts/cycle)
ifft_cplx32x32	N=180, scaling=3	1913 (0.094 pts/cycle)
ifft_cplx32x32	N=180, scaling=2	2324 (0.077 pts/cycle)
ifft_cplx32x32	N=192, scaling=3	1698 (0.113 pts/cycle)
ifft_cplx32x32	N=192, scaling=2	2020 (0.095 pts/cycle)
ifft_cplx32x32	N=200, scaling=3	2375 (0.084 pts/cycle)
ifft_cplx32x32	N=200, scaling=2	2704 (0.074 pts/cycle)
ifft_cplx32x32	N=216, scaling=3	2495 (0.087 pts/cycle)
ifft_cplx32x32	N=216, scaling=2	3429 (0.063 pts/cycle)
ifft_cplx32x32	N=240, scaling=3	2273 (0.106 pts/cycle)
ifft_cplx32x32	N=240, scaling=2	2703 (0.089 pts/cycle)
ifft_cplx32x32	N=288, scaling=3	3078 (0.094 pts/cycle)
ifft_cplx32x32	N=288, scaling=2	3665 (0.079 pts/cycle)
ifft_cplx32x32	N=300, scaling=3	3226 (0.093 pts/cycle)
ifft_cplx32x32	N=300, scaling=2	3849 (0.078 pts/cycle)
ifft_cplx32x32	N=320, scaling=3	2981 (0.107 pts/cycle)
ifft_cplx32x32	N=320, scaling=2	3359 (0.095 pts/cycle)
ifft_cplx32x32	N=324, scaling=3	3721 (0.087 pts/cycle)
ifft_cplx32x32	N=324, scaling=2	4538 (0.071 pts/cycle)
ifft_cplx32x32	N=360, scaling=3	4072 (0.088 pts/cycle)
ifft_cplx32x32	N=360, scaling=2	4762 (0.076 pts/cycle)
ifft_cplx32x32	N=384, scaling=3	2999 (0.128 pts/cycle)
ifft_cplx32x32	N=384, scaling=2	3456 (0.111 pts/cycle)
ifft_cplx32x32	N=400, scaling=3	3859 (0.104 pts/cycle)
ifft_cplx32x32	N=400, scaling=2	4434 (0.090 pts/cycle)
ifft_cplx32x32	N=432, scaling=3	4264 (0.101 pts/cycle)
ifft_cplx32x32	N=432, scaling=2	5210 (0.083 pts/cycle)
ifft_cplx32x32	N=480, scaling=3	5119 (0.094 pts/cycle)
ifft_cplx32x32	N=480, scaling=2	5933 (0.081 pts/cycle)
ifft_cplx32x32	N=540, scaling=3	6342 (0.085 pts/cycle)
ifft_cplx32x32	N=540, scaling=2	7330 (0.074 pts/cycle)
ifft_cplx32x32	N=576, scaling=3	4905 (0.117 pts/cycle)
ifft_cplx32x32	N=576, scaling=2	5916 (0.097 pts/cycle)
ifft_cplx32x32	N=600, scaling=3	6424 (0.093 pts/cycle)
ifft_cplx32x32	N=600, scaling=2	7520 (0.080 pts/cycle)
ifft_cplx32x32	N=768, scaling=3	5676 (0.135 pts/cycle)
ifft_cplx32x32	N=768, scaling=2	6310 (0.122 pts/cycle)
ifft_cplx32x32	N=960, scaling=3	8672 (0.111 pts/cycle)
ifft_cplx32x32	N=960, scaling=2	10079 (0.095 pts/cycle)
fft_cplx32x16	N=160, scaling=3	1285 (0.125 pts/cycle)
fft_cplx32x16	N=160, scaling=2	1416 (0.113 pts/cycle)
fft_cplx32x16	N=192, scaling=3	1490 (0.129 pts/cycle)
fft_cplx32x16	N=192, scaling=2	1736 (0.111 pts/cycle)
fft_cplx32x16	N=240, scaling=3	2092 (0.115 pts/cycle)
fft_cplx32x16	N=240, scaling=2	2394 (0.100 pts/cycle)
fft_cplx32x16	N=320, scaling=3	2495 (0.128 pts/cycle)
fft_cplx32x16	N=320, scaling=2	2773 (0.115 pts/cycle)
fft_cplx32x16	N=384, scaling=3	3214 (0.119 pts/cycle)
fft_cplx32x16	N=384, scaling=2	3651 (0.105 pts/cycle)
fft_cplx32x16	N=480, scaling=3	4403 (0.109 pts/cycle)
fft_cplx32x16	N=480, scaling=2	4924 (0.097 pts/cycle)
ifft_cplx32x16	N=160, scaling=3	1315 (0.122 pts/cycle)
ifft_cplx32x16	N=160, scaling=2	1422 (0.113 pts/cycle)
ifft_cplx32x16	N=192, scaling=3	1439 (0.133 pts/cycle)
ifft_cplx32x16	N=192, scaling=2	1743 (0.110 pts/cycle)
ifft_cplx32x16	N=240, scaling=3	2026 (0.118 pts/cycle)
ifft_cplx32x16	N=240, scaling=2	2398 (0.100 pts/cycle)
ifft_cplx32x16	N=320, scaling=3	2538 (0.126 pts/cycle)
ifft_cplx32x16	N=320, scaling=2	2778 (0.115 pts/cycle)
ifft_cplx32x16	N=384, scaling=3	3098 (0.124 pts/cycle)
ifft_cplx32x16	N=384, scaling=2	3655 (0.105 pts/cycle)
ifft_cplx32x16	N=480, scaling=3	4257 (0.113 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
ifft_cplx32x16	N=480, scaling=2	4928 (0.097 pts/cycle)
fft_cplx16x16	N=160, scaling=3	1357 (0.118 pts/cycle)
fft_cplx16x16	N=160, scaling=2	1717 (0.093 pts/cycle)
fft_cplx16x16	N=192, scaling=3	1701 (0.113 pts/cycle)
fft_cplx16x16	N=192, scaling=2	2129 (0.090 pts/cycle)
fft_cplx16x16	N=240, scaling=3	2140 (0.112 pts/cycle)
fft_cplx16x16	N=240, scaling=2	2614 (0.092 pts/cycle)
fft_cplx16x16	N=320, scaling=3	2686 (0.119 pts/cycle)
fft_cplx16x16	N=320, scaling=2	3357 (0.095 pts/cycle)
fft_cplx16x16	N=384, scaling=3	3293 (0.117 pts/cycle)
fft_cplx16x16	N=384, scaling=2	4167 (0.092 pts/cycle)
fft_cplx16x16	N=480, scaling=3	4168 (0.115 pts/cycle)
fft_cplx16x16	N=480, scaling=2	5243 (0.092 pts/cycle)
ifft_cplx16x16	N=160, scaling=3	1399 (0.114 pts/cycle)
ifft_cplx16x16	N=160, scaling=2	1755 (0.091 pts/cycle)
ifft_cplx16x16	N=192, scaling=3	1699 (0.113 pts/cycle)
ifft_cplx16x16	N=192, scaling=2	2124 (0.090 pts/cycle)
ifft_cplx16x16	N=240, scaling=3	2190 (0.110 pts/cycle)
ifft_cplx16x16	N=240, scaling=2	2652 (0.090 pts/cycle)
ifft_cplx16x16	N=320, scaling=3	2744 (0.117 pts/cycle)
ifft_cplx16x16	N=320, scaling=2	3395 (0.094 pts/cycle)
ifft_cplx16x16	N=384, scaling=3	3291 (0.117 pts/cycle)
ifft_cplx16x16	N=384, scaling=2	4160 (0.092 pts/cycle)
ifft_cplx16x16	N=480, scaling=3	4243 (0.113 pts/cycle)
ifft_cplx16x16	N=480, scaling=2	5281 (0.091 pts/cycle)
FFT Routines		
Mixed Radix Real FFT		
fft_real32x32	N=12, scaling=3	235 (0.051 pts/cycle)
fft_real32x32	N=12, scaling=2	266 (0.045 pts/cycle)
fft_real32x32	N=24, scaling=3	277 (0.087 pts/cycle)
fft_real32x32	N=24, scaling=2	323 (0.074 pts/cycle)
fft_real32x32	N=30, scaling=3	353 (0.085 pts/cycle)
fft_real32x32	N=30, scaling=2	405 (0.074 pts/cycle)
fft_real32x32	N=36, scaling=3	513 (0.070 pts/cycle)
fft_real32x32	N=36, scaling=2	587 (0.061 pts/cycle)
fft_real32x32	N=48, scaling=3	360 (0.133 pts/cycle)
fft_real32x32	N=48, scaling=2	568 (0.085 pts/cycle)
fft_real32x32	N=60, scaling=3	543 (0.110 pts/cycle)
fft_real32x32	N=60, scaling=2	695 (0.086 pts/cycle)
fft_real32x32	N=72, scaling=3	585 (0.123 pts/cycle)
fft_real32x32	N=72, scaling=2	738 (0.098 pts/cycle)
fft_real32x32	N=90, scaling=3	734 (0.123 pts/cycle)
fft_real32x32	N=90, scaling=2	906 (0.099 pts/cycle)
fft_real32x32	N=96, scaling=3	578 (0.166 pts/cycle)
fft_real32x32	N=96, scaling=2	676 (0.142 pts/cycle)
fft_real32x32	N=108, scaling=3	903 (0.120 pts/cycle)
fft_real32x32	N=108, scaling=2	1173 (0.092 pts/cycle)
fft_real32x32	N=120, scaling=3	798 (0.150 pts/cycle)
fft_real32x32	N=120, scaling=2	990 (0.121 pts/cycle)
fft_real32x32	N=144, scaling=3	1010 (0.143 pts/cycle)
fft_real32x32	N=144, scaling=2	1416 (0.102 pts/cycle)
fft_real32x32	N=160, scaling=3	830 (0.193 pts/cycle)
fft_real32x32	N=160, scaling=2	980 (0.163 pts/cycle)
fft_real32x32	N=180, scaling=3	1322 (0.136 pts/cycle)
fft_real32x32	N=180, scaling=2	1619 (0.111 pts/cycle)
fft_real32x32	N=192, scaling=3	1316 (0.146 pts/cycle)
fft_real32x32	N=192, scaling=2	1518 (0.126 pts/cycle)
fft_real32x32	N=216, scaling=3	1434 (0.151 pts/cycle)
fft_real32x32	N=216, scaling=2	1806 (0.120 pts/cycle)
fft_real32x32	N=240, scaling=3	1748 (0.137 pts/cycle)
fft_real32x32	N=240, scaling=2	2054 (0.117 pts/cycle)
fft_real32x32	N=288, scaling=3	1551 (0.186 pts/cycle)
fft_real32x32	N=288, scaling=2	1949 (0.148 pts/cycle)
fft_real32x32	N=300, scaling=3	2142 (0.140 pts/cycle)
fft_real32x32	N=300, scaling=2	2496 (0.120 pts/cycle)
fft_real32x32	N=320, scaling=3	1680 (0.190 pts/cycle)
fft_real32x32	N=320, scaling=2	1943 (0.165 pts/cycle)
fft_real32x32	N=324, scaling=3	2374 (0.136 pts/cycle)
fft_real32x32	N=324, scaling=2	2848 (0.114 pts/cycle)
fft_real32x32	N=360, scaling=3	2244 (0.160 pts/cycle)
fft_real32x32	N=360, scaling=2	2714 (0.133 pts/cycle)
fft_real32x32	N=384, scaling=3	2035 (0.189 pts/cycle)
fft_real32x32	N=384, scaling=2	2423 (0.158 pts/cycle)
fft_real32x32	N=432, scaling=3	2874 (0.150 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_real32x32	N=432, scaling=2	3883 (0.111 pts/cycle)
fft_real32x32	N=480, scaling=3	2690 (0.178 pts/cycle)
fft_real32x32	N=480, scaling=2	3186 (0.151 pts/cycle)
fft_real32x32	N=540, scaling=3	3850 (0.140 pts/cycle)
fft_real32x32	N=540, scaling=2	4404 (0.123 pts/cycle)
fft_real32x32	N=576, scaling=3	3526 (0.163 pts/cycle)
fft_real32x32	N=576, scaling=2	4236 (0.136 pts/cycle)
fft_real32x32	N=720, scaling=3	4753 (0.151 pts/cycle)
fft_real32x32	N=720, scaling=2	5450 (0.132 pts/cycle)
fft_real32x32	N=768, scaling=3	4647 (0.165 pts/cycle)
fft_real32x32	N=768, scaling=2	5316 (0.144 pts/cycle)
fft_real32x32	N=960, scaling=3	5848 (0.164 pts/cycle)
fft_real32x32	N=960, scaling=2	6900 (0.139 pts/cycle)
fft_real32x32	N=1152, scaling=3	5731 (0.201 pts/cycle)
fft_real32x32	N=1152, scaling=2	6991 (0.165 pts/cycle)
fft_real32x32	N=1440, scaling=3	8482 (0.170 pts/cycle)
fft_real32x32	N=1440, scaling=2	10044 (0.143 pts/cycle)
fft_real32x32	N=1536, scaling=3	6801 (0.226 pts/cycle)
fft_real32x32	N=1536, scaling=2	7819 (0.196 pts/cycle)
fft_real32x32	N=1920, scaling=3	10002 (0.192 pts/cycle)
fft_real32x32	N=1920, scaling=2	11826 (0.162 pts/cycle)
ifft_real32x32	N=12, scaling=3	250 (0.048 pts/cycle)
ifft_real32x32	N=12, scaling=2	286 (0.042 pts/cycle)
ifft_real32x32	N=24, scaling=3	302 (0.079 pts/cycle)
ifft_real32x32	N=24, scaling=2	329 (0.073 pts/cycle)
ifft_real32x32	N=30, scaling=3	364 (0.082 pts/cycle)
ifft_real32x32	N=30, scaling=2	412 (0.073 pts/cycle)
ifft_real32x32	N=36, scaling=3	535 (0.067 pts/cycle)
ifft_real32x32	N=36, scaling=2	602 (0.060 pts/cycle)
ifft_real32x32	N=48, scaling=3	380 (0.126 pts/cycle)
ifft_real32x32	N=48, scaling=2	578 (0.083 pts/cycle)
ifft_real32x32	N=60, scaling=3	568 (0.106 pts/cycle)
ifft_real32x32	N=60, scaling=2	714 (0.084 pts/cycle)
ifft_real32x32	N=72, scaling=3	596 (0.121 pts/cycle)
ifft_real32x32	N=72, scaling=2	754 (0.095 pts/cycle)
ifft_real32x32	N=90, scaling=3	758 (0.119 pts/cycle)
ifft_real32x32	N=90, scaling=2	921 (0.098 pts/cycle)
ifft_real32x32	N=96, scaling=3	598 (0.161 pts/cycle)
ifft_real32x32	N=96, scaling=2	695 (0.138 pts/cycle)
ifft_real32x32	N=108, scaling=3	935 (0.116 pts/cycle)
ifft_real32x32	N=108, scaling=2	1197 (0.090 pts/cycle)
ifft_real32x32	N=120, scaling=3	824 (0.146 pts/cycle)
ifft_real32x32	N=120, scaling=2	1017 (0.118 pts/cycle)
ifft_real32x32	N=144, scaling=3	1040 (0.138 pts/cycle)
ifft_real32x32	N=144, scaling=2	1447 (0.100 pts/cycle)
ifft_real32x32	N=160, scaling=3	866 (0.185 pts/cycle)
ifft_real32x32	N=160, scaling=2	1007 (0.159 pts/cycle)
ifft_real32x32	N=180, scaling=3	1375 (0.131 pts/cycle)
ifft_real32x32	N=180, scaling=2	1647 (0.109 pts/cycle)
ifft_real32x32	N=192, scaling=3	1368 (0.140 pts/cycle)
ifft_real32x32	N=192, scaling=2	1562 (0.123 pts/cycle)
ifft_real32x32	N=216, scaling=3	1478 (0.146 pts/cycle)
ifft_real32x32	N=216, scaling=2	1865 (0.116 pts/cycle)
ifft_real32x32	N=240, scaling=3	1802 (0.133 pts/cycle)
ifft_real32x32	N=240, scaling=2	2096 (0.115 pts/cycle)
ifft_real32x32	N=288, scaling=3	1632 (0.176 pts/cycle)
ifft_real32x32	N=288, scaling=2	2003 (0.144 pts/cycle)
ifft_real32x32	N=300, scaling=3	2225 (0.135 pts/cycle)
ifft_real32x32	N=300, scaling=2	2559 (0.117 pts/cycle)
ifft_real32x32	N=320, scaling=3	1768 (0.181 pts/cycle)
ifft_real32x32	N=320, scaling=2	1998 (0.160 pts/cycle)
ifft_real32x32	N=324, scaling=3	2445 (0.133 pts/cycle)
ifft_real32x32	N=324, scaling=2	2933 (0.110 pts/cycle)
ifft_real32x32	N=360, scaling=3	2334 (0.154 pts/cycle)
ifft_real32x32	N=360, scaling=2	2794 (0.129 pts/cycle)
ifft_real32x32	N=384, scaling=3	2139 (0.180 pts/cycle)
ifft_real32x32	N=384, scaling=2	2513 (0.153 pts/cycle)
ifft_real32x32	N=432, scaling=3	2985 (0.145 pts/cycle)
ifft_real32x32	N=432, scaling=2	3978 (0.109 pts/cycle)
ifft_real32x32	N=480, scaling=3	2819 (0.170 pts/cycle)
ifft_real32x32	N=480, scaling=2	3307 (0.145 pts/cycle)
ifft_real32x32	N=540, scaling=3	3998 (0.135 pts/cycle)
ifft_real32x32	N=540, scaling=2	4511 (0.120 pts/cycle)
ifft_real32x32	N=576, scaling=3	3712 (0.155 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
ifft_real32x32	N=576, scaling=2	4376 (0.132 pts/cycle)
ifft_real32x32	N=720, scaling=3	4853 (0.148 pts/cycle)
ifft_real32x32	N=720, scaling=2	5635 (0.128 pts/cycle)
ifft_real32x32	N=768, scaling=3	4897 (0.157 pts/cycle)
ifft_real32x32	N=768, scaling=2	5502 (0.140 pts/cycle)
ifft_real32x32	N=960, scaling=3	6136 (0.156 pts/cycle)
ifft_real32x32	N=960, scaling=2	7077 (0.136 pts/cycle)
ifft_real32x32	N=1152, scaling=3	6114 (0.188 pts/cycle)
ifft_real32x32	N=1152, scaling=2	7275 (0.158 pts/cycle)
ifft_real32x32	N=1440, scaling=3	8920 (0.161 pts/cycle)
ifft_real32x32	N=1440, scaling=2	10312 (0.140 pts/cycle)
ifft_real32x32	N=1536, scaling=3	7273 (0.211 pts/cycle)
ifft_real32x32	N=1536, scaling=2	8106 (0.189 pts/cycle)
ifft_real32x32	N=1920, scaling=3	10652 (0.180 pts/cycle)
ifft_real32x32	N=1920, scaling=2	12306 (0.156 pts/cycle)
fft_real32x16	N=160, scaling=3	825 (0.194 pts/cycle)
fft_real32x16	N=160, scaling=2	940 (0.170 pts/cycle)
fft_real32x16	N=192, scaling=3	1042 (0.184 pts/cycle)
fft_real32x16	N=192, scaling=2	1158 (0.166 pts/cycle)
fft_real32x16	N=240, scaling=3	1478 (0.162 pts/cycle)
fft_real32x16	N=240, scaling=2	1627 (0.148 pts/cycle)
fft_real32x16	N=320, scaling=3	1607 (0.199 pts/cycle)
fft_real32x16	N=320, scaling=2	1736 (0.184 pts/cycle)
fft_real32x16	N=384, scaling=3	1861 (0.206 pts/cycle)
fft_real32x16	N=384, scaling=2	2104 (0.183 pts/cycle)
fft_real32x16	N=480, scaling=3	2535 (0.189 pts/cycle)
fft_real32x16	N=480, scaling=2	2832 (0.169 pts/cycle)
ifft_real32x16	N=160, scaling=3	839 (0.191 pts/cycle)
ifft_real32x16	N=160, scaling=2	958 (0.167 pts/cycle)
ifft_real32x16	N=192, scaling=3	1023 (0.188 pts/cycle)
ifft_real32x16	N=192, scaling=2	1189 (0.161 pts/cycle)
ifft_real32x16	N=240, scaling=3	1466 (0.164 pts/cycle)
ifft_real32x16	N=240, scaling=2	1676 (0.143 pts/cycle)
ifft_real32x16	N=320, scaling=3	1668 (0.192 pts/cycle)
ifft_real32x16	N=320, scaling=2	1815 (0.176 pts/cycle)
ifft_real32x16	N=384, scaling=3	1861 (0.206 pts/cycle)
ifft_real32x16	N=384, scaling=2	2209 (0.174 pts/cycle)
ifft_real32x16	N=480, scaling=3	2542 (0.189 pts/cycle)
ifft_real32x16	N=480, scaling=2	2972 (0.162 pts/cycle)
fft_real16x16	N=160, scaling=3	990 (0.162 pts/cycle)
fft_real16x16	N=160, scaling=2	1169 (0.137 pts/cycle)
fft_real16x16	N=192, scaling=3	1217 (0.158 pts/cycle)
fft_real16x16	N=192, scaling=2	1456 (0.132 pts/cycle)
fft_real16x16	N=240, scaling=3	1626 (0.148 pts/cycle)
fft_real16x16	N=240, scaling=2	1893 (0.127 pts/cycle)
fft_real16x16	N=320, scaling=3	1769 (0.181 pts/cycle)
fft_real16x16	N=320, scaling=2	2125 (0.151 pts/cycle)
fft_real16x16	N=384, scaling=3	2176 (0.176 pts/cycle)
fft_real16x16	N=384, scaling=2	2601 (0.148 pts/cycle)
fft_real16x16	N=480, scaling=3	2712 (0.177 pts/cycle)
fft_real16x16	N=480, scaling=2	3181 (0.151 pts/cycle)
ifft_real16x16	N=160, scaling=3	1033 (0.155 pts/cycle)
ifft_real16x16	N=160, scaling=2	1284 (0.125 pts/cycle)
ifft_real16x16	N=192, scaling=3	1226 (0.157 pts/cycle)
ifft_real16x16	N=192, scaling=2	1540 (0.125 pts/cycle)
ifft_real16x16	N=240, scaling=3	1673 (0.143 pts/cycle)
ifft_real16x16	N=240, scaling=2	2038 (0.118 pts/cycle)
ifft_real16x16	N=320, scaling=3	1821 (0.176 pts/cycle)
ifft_real16x16	N=320, scaling=2	2302 (0.139 pts/cycle)
ifft_real16x16	N=384, scaling=3	2185 (0.176 pts/cycle)
ifft_real16x16	N=384, scaling=2	2758 (0.139 pts/cycle)
ifft_real16x16	N=480, scaling=3	2771 (0.173 pts/cycle)
ifft_real16x16	N=480, scaling=2	3417 (0.140 pts/cycle)
FFT Routines		
Complex FFT with Optimized Memory		
fft_cplx16x16_ie	N=128	1347 (0.095 pts/cycle)
fft_cplx16x16_ie	N=256	2436 (0.105 pts/cycle)
fft_cplx16x16_ie	N=512	5110 (0.100 pts/cycle)
fft_cplx16x16_ie	N=1024	10209 (0.100 pts/cycle)
fft_cplx32x16_ie	N=256, scaling=3	1944 (0.132 pts/cycle)
fft_cplx32x16_ie	N=256, scaling=2	2198 (0.116 pts/cycle)
fft_cplx32x16_ie	N=512, scaling=3	4725 (0.108 pts/cycle)
fft_cplx32x16_ie	N=512, scaling=2	5202 (0.098 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_cplx32x16_ie	N=1024, scaling=3	9305 (0.110 pts/cycle)
fft_cplx32x16_ie	N=1024, scaling=2	10221 (0.100 pts/cycle)
fft_cplx32x32_ie	N=128, scaling=3	894 (0.143 pts/cycle)
fft_cplx32x32_ie	N=128, scaling=2	1087 (0.118 pts/cycle)
fft_cplx32x32_ie	N=256, scaling=3	1582 (0.162 pts/cycle)
fft_cplx32x32_ie	N=256, scaling=2	1919 (0.133 pts/cycle)
fft_cplx32x32_ie	N=512, scaling=3	3677 (0.139 pts/cycle)
fft_cplx32x32_ie	N=512, scaling=2	4311 (0.119 pts/cycle)
fft_cplx32x32_ie	N=1024, scaling=3	6969 (0.147 pts/cycle)
fft_cplx32x32_ie	N=1024, scaling=2	8179 (0.125 pts/cycle)
ifft_cplx16x16_ie	N=128	1345 (0.095 pts/cycle)
ifft_cplx16x16_ie	N=256	2435 (0.105 pts/cycle)
ifft_cplx16x16_ie	N=512	5108 (0.100 pts/cycle)
ifft_cplx16x16_ie	N=1024	10210 (0.100 pts/cycle)
ifft_cplx32x16_ie	N=256, scaling=3	2073 (0.123 pts/cycle)
ifft_cplx32x16_ie	N=256, scaling=2	2514 (0.102 pts/cycle)
ifft_cplx32x16_ie	N=512, scaling=3	4847 (0.106 pts/cycle)
ifft_cplx32x16_ie	N=512, scaling=2	5714 (0.090 pts/cycle)
ifft_cplx32x16_ie	N=1024, scaling=3	9811 (0.104 pts/cycle)
ifft_cplx32x16_ie	N=1024, scaling=2	11522 (0.089 pts/cycle)
ifft_cplx32x32_ie	N=128, scaling=3	904 (0.142 pts/cycle)
ifft_cplx32x32_ie	N=128, scaling=2	1087 (0.118 pts/cycle)
ifft_cplx32x32_ie	N=256, scaling=3	1616 (0.158 pts/cycle)
ifft_cplx32x32_ie	N=256, scaling=2	1920 (0.133 pts/cycle)
ifft_cplx32x32_ie	N=512, scaling=3	3759 (0.136 pts/cycle)
ifft_cplx32x32_ie	N=512, scaling=2	4311 (0.119 pts/cycle)
ifft_cplx32x32_ie	N=1024, scaling=3	7147 (0.143 pts/cycle)
ifft_cplx32x32_ie	N=1024, scaling=2	8180 (0.125 pts/cycle)
stereo_fft_cplx16x16_ie	N=128	1771 (0.072 pts/cycle)
stereo_fft_cplx16x16_ie	N=256	3639 (0.070 pts/cycle)
stereo_fft_cplx16x16_ie	N=512	8202 (0.062 pts/cycle)
stereo_fft_cplx16x16_ie	N=1024	17238 (0.059 pts/cycle)
stereo_fft_cplx32x16_ie	N=256, scaling=3	3013 (0.085 pts/cycle)
stereo_fft_cplx32x16_ie	N=256, scaling=2	3705 (0.069 pts/cycle)
stereo_fft_cplx32x16_ie	N=512, scaling=3	6973 (0.073 pts/cycle)
stereo_fft_cplx32x16_ie	N=512, scaling=2	8394 (0.061 pts/cycle)
stereo_fft_cplx32x16_ie	N=1024, scaling=3	14059 (0.073 pts/cycle)
stereo_fft_cplx32x16_ie	N=1024, scaling=2	16875 (0.061 pts/cycle)
stereo_fft_cplx32x32_ie	N=128, scaling=3	1692 (0.076 pts/cycle)
stereo_fft_cplx32x32_ie	N=128, scaling=2	2015 (0.064 pts/cycle)
stereo_fft_cplx32x32_ie	N=256, scaling=3	3125 (0.082 pts/cycle)
stereo_fft_cplx32x32_ie	N=256, scaling=2	3751 (0.068 pts/cycle)
stereo_fft_cplx32x32_ie	N=512, scaling=3	8098 (0.063 pts/cycle)
stereo_fft_cplx32x32_ie	N=512, scaling=2	9303 (0.055 pts/cycle)
stereo_fft_cplx32x32_ie	N=1024, scaling=3	15403 (0.066 pts/cycle)
stereo_fft_cplx32x32_ie	N=1024, scaling=2	17823 (0.057 pts/cycle)
stereo_ifft_cplx16x16_ie	N=128	1766 (0.072 pts/cycle)
stereo_ifft_cplx16x16_ie	N=256	3632 (0.070 pts/cycle)
stereo_ifft_cplx16x16_ie	N=512	8189 (0.063 pts/cycle)
stereo_ifft_cplx16x16_ie	N=1024	17215 (0.059 pts/cycle)
stereo_ifft_cplx32x16_ie	N=256, scaling=3	2943 (0.087 pts/cycle)
stereo_ifft_cplx32x16_ie	N=256, scaling=2	3661 (0.070 pts/cycle)
stereo_ifft_cplx32x16_ie	N=512, scaling=3	6865 (0.075 pts/cycle)
stereo_ifft_cplx32x16_ie	N=512, scaling=2	8339 (0.061 pts/cycle)
stereo_ifft_cplx32x16_ie	N=1024, scaling=3	13717 (0.075 pts/cycle)
stereo_ifft_cplx32x16_ie	N=1024, scaling=2	16639 (0.062 pts/cycle)
stereo_ifft_cplx32x32_ie	N=128, scaling=3	1725 (0.074 pts/cycle)
stereo_ifft_cplx32x32_ie	N=128, scaling=2	2074 (0.062 pts/cycle)
stereo_ifft_cplx32x32_ie	N=256, scaling=3	3190 (0.080 pts/cycle)
stereo_ifft_cplx32x32_ie	N=256, scaling=2	3858 (0.066 pts/cycle)
stereo_ifft_cplx32x32_ie	N=512, scaling=3	8227 (0.062 pts/cycle)
stereo_ifft_cplx32x32_ie	N=512, scaling=2	9506 (0.054 pts/cycle)
stereo_ifft_cplx32x32_ie	N=1024, scaling=3	15661 (0.065 pts/cycle)
stereo_ifft_cplx32x32_ie	N=1024, scaling=2	18220 (0.056 pts/cycle)
fft_cplxf_ie	N=8	65 (0.123 pts/cycle)
fft_cplxf_ie	N=16	127 (0.126 pts/cycle)
fft_cplxf_ie	N=32	224 (0.143 pts/cycle)
fft_cplxf_ie	N=64	572 (0.112 pts/cycle)
fft_cplxf_ie	N=128	1078 (0.119 pts/cycle)
fft_cplxf_ie	N=256	2727 (0.094 pts/cycle)
fft_cplxf_ie	N=512	5361 (0.096 pts/cycle)
fft_cplxf_ie	N=1024	13102 (0.078 pts/cycle)
fft_cplxf_ie	N=2048	26024 (0.079 pts/cycle)
fft_cplxf_ie	N=4096	61685 (0.066 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
ifft_cplxf_ie	N=8	65 (0.123 pts/cycle)
ifft_cplxf_ie	N=16	172 (0.093 pts/cycle)
ifft_cplxf_ie	N=32	223 (0.143 pts/cycle)
ifft_cplxf_ie	N=64	593 (0.108 pts/cycle)
ifft_cplxf_ie	N=128	1080 (0.119 pts/cycle)
ifft_cplxf_ie	N=256	2806 (0.091 pts/cycle)
ifft_cplxf_ie	N=512	5377 (0.095 pts/cycle)
ifft_cplxf_ie	N=1024	13421 (0.076 pts/cycle)
ifft_cplxf_ie	N=2048	26086 (0.079 pts/cycle)
ifft_cplxf_ie	N=4096	62965 (0.065 pts/cycle)
stereo_fft_cplxf_ie	N=8	129 (0.062 pts/cycle)
stereo_fft_cplxf_ie	N=16	193 (0.083 pts/cycle)
stereo_fft_cplxf_ie	N=32	567 (0.056 pts/cycle)
stereo_fft_cplxf_ie	N=64	955 (0.067 pts/cycle)
stereo_fft_cplxf_ie	N=128	2745 (0.047 pts/cycle)
stereo_fft_cplxf_ie	N=256	4869 (0.053 pts/cycle)
stereo_fft_cplxf_ie	N=512	13217 (0.039 pts/cycle)
stereo_fft_cplxf_ie	N=1024	24043 (0.043 pts/cycle)
stereo_fft_cplxf_ie	N=2048	62187 (0.033 pts/cycle)
stereo_fft_cplxf_ie	N=4096	114931 (0.036 pts/cycle)
stereo_ifft_cplxf_ie	N=8	140 (0.057 pts/cycle)
stereo_ifft_cplxf_ie	N=16	200 (0.080 pts/cycle)
stereo_ifft_cplxf_ie	N=32	571 (0.056 pts/cycle)
stereo_ifft_cplxf_ie	N=64	986 (0.065 pts/cycle)
stereo_ifft_cplxf_ie	N=128	2728 (0.047 pts/cycle)
stereo_ifft_cplxf_ie	N=256	4994 (0.051 pts/cycle)
stereo_ifft_cplxf_ie	N=512	13104 (0.039 pts/cycle)
stereo_ifft_cplxf_ie	N=1024	24554 (0.042 pts/cycle)
stereo_ifft_cplxf_ie	N=2048	61687 (0.033 pts/cycle)
stereo_ifft_cplxf_ie	N=4096	116976 (0.035 pts/cycle)
FFT Routines		
Real FFT with Optimized Memory		
fft_real16x16_ie	N=256	1720 (0.149 pts/cycle)
fft_real16x16_ie	N=512	3093 (0.166 pts/cycle)
fft_real16x16_ie	N=1024	6337 (0.162 pts/cycle)
fft_real32x16_ie	N=256, scaling=3	1327 (0.193 pts/cycle)
fft_real32x16_ie	N=256, scaling=2	1473 (0.174 pts/cycle)
fft_real32x16_ie	N=512, scaling=3	2463 (0.208 pts/cycle)
fft_real32x16_ie	N=512, scaling=2	2719 (0.188 pts/cycle)
fft_real32x16_ie	N=1024, scaling=3	5676 (0.180 pts/cycle)
fft_real32x16_ie	N=1024, scaling=2	6155 (0.166 pts/cycle)
fft_real32x32_ie	N=256, scaling=3	1234 (0.207 pts/cycle)
fft_real32x32_ie	N=256, scaling=2	1578 (0.162 pts/cycle)
fft_real32x32_ie	N=512, scaling=3	2178 (0.235 pts/cycle)
fft_real32x32_ie	N=512, scaling=2	2803 (0.183 pts/cycle)
fft_real32x32_ie	N=1024, scaling=3	4786 (0.214 pts/cycle)
fft_real32x32_ie	N=1024, scaling=2	5979 (0.171 pts/cycle)
ifft_real16x16_ie	N=256	1796 (0.143 pts/cycle)
ifft_real16x16_ie	N=512	3234 (0.158 pts/cycle)
ifft_real16x16_ie	N=1024	6605 (0.155 pts/cycle)
ifft_real32x16_ie	N=256, scaling=3	1373 (0.186 pts/cycle)
ifft_real32x16_ie	N=256, scaling=2	1761 (0.145 pts/cycle)
ifft_real32x16_ie	N=512, scaling=3	2633 (0.194 pts/cycle)
ifft_real32x16_ie	N=512, scaling=2	3375 (0.152 pts/cycle)
ifft_real32x16_ie	N=1024, scaling=3	5887 (0.174 pts/cycle)
ifft_real32x16_ie	N=1024, scaling=2	7343 (0.139 pts/cycle)
ifft_real32x32_ie	N=256, scaling=3	1230 (0.208 pts/cycle)
ifft_real32x32_ie	N=256, scaling=2	1564 (0.164 pts/cycle)
ifft_real32x32_ie	N=512, scaling=3	2190 (0.234 pts/cycle)
ifft_real32x32_ie	N=512, scaling=2	2781 (0.184 pts/cycle)
ifft_real32x32_ie	N=1024, scaling=3	4829 (0.212 pts/cycle)
ifft_real32x32_ie	N=1024, scaling=2	5940 (0.172 pts/cycle)
fft_realf_ie	N=8	39 (0.205 pts/cycle)
fft_realf_ie	N=16	142 (0.113 pts/cycle)
fft_realf_ie	N=32	234 (0.137 pts/cycle)
fft_realf_ie	N=64	374 (0.171 pts/cycle)
fft_realf_ie	N=128	805 (0.159 pts/cycle)
fft_realf_ie	N=256	1474 (0.174 pts/cycle)
fft_realf_ie	N=512	3452 (0.148 pts/cycle)
fft_realf_ie	N=1024	6741 (0.152 pts/cycle)
fft_realf_ie	N=2048	15795 (0.130 pts/cycle)
fft_realf_ie	N=4096	31340 (0.131 pts/cycle)
ifft_realf_ie	N=8	42 (0.190 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
ifft_realf_ie	N=16	142 (0.113 pts/cycle)
ifft_realf_ie	N=32	282 (0.113 pts/cycle)
ifft_realf_ie	N=64	373 (0.172 pts/cycle)
ifft_realf_ie	N=128	824 (0.155 pts/cycle)
ifft_realf_ie	N=256	1476 (0.173 pts/cycle)
ifft_realf_ie	N=512	3531 (0.145 pts/cycle)
ifft_realf_ie	N=1024	6755 (0.152 pts/cycle)
ifft_realf_ie	N=2048	16115 (0.127 pts/cycle)
ifft_realf_ie	N=4096	31403 (0.130 pts/cycle)
FFT Routines		
DCT		
dct_32x16	N=32, scalingOpt=3	152 (cycles)
dct_32x16	N=64, scalingOpt=3	293 (cycles)
dct_32x32	N=32, scalingOpt=3	176 (cycles)
dct_32x32	N=64, scalingOpt=3	295 (cycles)
dct_16x16	N=32, scalingOpt=3	214 (cycles)
dct_16x16	N=64, scalingOpt=3	385 (cycles)
dct4_32x16	N=32, scalingOpt=3	234 (cycles)
dct4_32x16	N=64, scalingOpt=3	584 (cycles)
dct4_32x16	N=128, scalingOpt=3	1191 (cycles)
dct4_32x16	N=256, scalingOpt=3	1994 (cycles)
dct4_32x16	N=512, scalingOpt=3	4627 (cycles)
dct4_32x32	N=32, scalingOpt=3	263 (cycles)
dct4_32x32	N=64, scalingOpt=3	630 (cycles)
dct4_32x32	N=128, scalingOpt=3	1256 (cycles)
dct4_32x32	N=256, scalingOpt=3	2186 (cycles)
dct4_32x32	N=512, scalingOpt=3	4919 (cycles)
mdct_32x16	N=32, scalingOpt=3	328 (cycles)
mdct_32x16	N=64, scalingOpt=3	719 (cycles)
mdct_32x16	N=128, scalingOpt=3	1406 (cycles)
mdct_32x16	N=256, scalingOpt=3	2369 (cycles)
mdct_32x16	N=512, scalingOpt=3	5322 (cycles)
mdct_32x32	N=32, scalingOpt=3	360 (cycles)
mdct_32x32	N=64, scalingOpt=3	767 (cycles)
mdct_32x32	N=128, scalingOpt=3	1473 (cycles)
mdct_32x32	N=256, scalingOpt=3	2564 (cycles)
mdct_32x32	N=512, scalingOpt=3	5616 (cycles)
imdct_32x16	N=32, scalingOpt=3	334 (cycles)
imdct_32x16	N=64, scalingOpt=3	725 (cycles)
imdct_32x16	N=128, scalingOpt=3	1414 (cycles)
imdct_32x16	N=256, scalingOpt=3	2375 (cycles)
imdct_32x16	N=512, scalingOpt=3	5330 (cycles)
imdct_32x32	N=32, scalingOpt=3	364 (cycles)
imdct_32x32	N=64, scalingOpt=3	771 (cycles)
imdct_32x32	N=128, scalingOpt=3	1477 (cycles)
imdct_32x32	N=256, scalingOpt=3	2568 (cycles)
imdct_32x32	N=512, scalingOpt=3	5622 (cycles)
dct2d_8x16	N=8, L=1, scalingOpt=0	269 (269.0 cycles/block)
dct2d_8x16	N=8, L=32, scalingOpt=0	8236 (257.4 cycles/block)
dct2d_8x16	N=8, L=1024, scalingOpt=0	263180 (257.0 cycles/block)
idct2d_16x8	N=8, L=1, scalingOpt=0	268 (268.0 cycles/block)
idct2d_16x8	N=8, L=32, scalingOpt=0	8112 (253.5 cycles/block)
idct2d_16x8	N=8, L=1024, scalingOpt=0	259087 (253.0 cycles/block)
dctf	N=32	230 (cycles)
dctf	N=64	470 (cycles)
fft_spectrum16x32	N=2[mode=0 bexp=-1]	116 (0.02 pts/cycle)
fft_spectrum16x32	N=4[mode=0 bexp=-1]	141 (0.03 pts/cycle)
fft_spectrum16x32	N=8[mode=0 bexp=-1]	185 (0.04 pts/cycle)
fft_spectrum16x32	N=16[mode=0 bexp=-1]	260 (0.06 pts/cycle)
fft_spectrum16x32	N=32[mode=0 bexp=-1]	405 (0.08 pts/cycle)
fft_spectrum16x32	N=64[mode=0 bexp=-1]	693 (0.09 pts/cycle)
fft_spectrum16x32	N=128[mode=0 bexp=-1]	1269 (0.10 pts/cycle)
fft_spectrum16x32	N=256[mode=0 bexp=-1]	2498 (0.10 pts/cycle)
fft_spectrum16x32	N=512[mode=0 bexp=-1]	4957 (0.10 pts/cycle)
fft_spectrum16x32	N=2048[mode=0 bexp=-1]	19705 (0.10 pts/cycle)
fft_spectrum16x32	N=4096[mode=0 bexp=-1]	39369 (0.10 pts/cycle)
fft_spectrum16x32	N=8192[mode=0 bexp=-1]	78697 (0.10 pts/cycle)
fft_spectrum16x32	N=16384[mode=0 bexp=-1]	157353 (0.10 pts/cycle)
fft_spectrum16x32	N=32768[mode=0 bexp=-1]	314665 (0.10 pts/cycle)
fft_spectrum16x32	N=65536[mode=0 bexp=-1]	629289 (0.10 pts/cycle)
fft_spectrum16x32	N=1024[mode=0 bexp=-1]	9873 (0.10 pts/cycle)
fft_spectrum16x32	N=2[mode=1 bexp=-1]	115 (0.02 pts/cycle)
fft_spectrum16x32	N=4[mode=1 bexp=-1]	191 (0.02 pts/cycle)
fft_spectrum16x32	N=8[mode=1 bexp=-1]	216 (0.04 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_spectrum16x32	N=16[mode=1 bexp=-1]	259 (0.06 pts/cycle)
fft_spectrum16x32	N=32[mode=1 bexp=-1]	335 (0.10 pts/cycle)
fft_spectrum16x32	N=64[mode=1 bexp=-1]	480 (0.13 pts/cycle)
fft_spectrum16x32	N=128[mode=1 bexp=-1]	768 (0.17 pts/cycle)
fft_spectrum16x32	N=256[mode=1 bexp=-1]	1344 (0.19 pts/cycle)
fft_spectrum16x32	N=512[mode=1 bexp=-1]	2573 (0.20 pts/cycle)
fft_spectrum16x32	N=2048[mode=1 bexp=-1]	9947 (0.21 pts/cycle)
fft_spectrum16x32	N=4096[mode=1 bexp=-1]	19780 (0.21 pts/cycle)
fft_spectrum16x32	N=8192[mode=1 bexp=-1]	39443 (0.21 pts/cycle)
fft_spectrum16x32	N=16384[mode=1 bexp=-1]	78772 (0.21 pts/cycle)
fft_spectrum16x32	N=32768[mode=1 bexp=-1]	157427 (0.21 pts/cycle)
fft_spectrum16x32	N=65536[mode=1 bexp=-1]	314740 (0.21 pts/cycle)
fft_spectrum16x32	N=1024[mode=1 bexp=-1]	5031 (0.20 pts/cycle)
fft_spectrum16x32	N=2[mode=0 bexp=-1 inplace]	116 (0.02 pts/cycle)
fft_spectrum16x32	N=4[mode=0 bexp=-1 inplace]	141 (0.03 pts/cycle)
fft_spectrum16x32	N=8[mode=0 bexp=-1 inplace]	184 (0.04 pts/cycle)
fft_spectrum16x32	N=16[mode=0 bexp=-1 inplace]	261 (0.06 pts/cycle)
fft_spectrum16x32	N=32[mode=0 bexp=-1 inplace]	405 (0.08 pts/cycle)
fft_spectrum16x32	N=64[mode=0 bexp=-1 inplace]	693 (0.09 pts/cycle)
fft_spectrum16x32	N=128[mode=0 bexp=-1 inplace]	1270 (0.10 pts/cycle)
fft_spectrum16x32	N=256[mode=0 bexp=-1 inplace]	2498 (0.10 pts/cycle)
fft_spectrum16x32	N=512[mode=0 bexp=-1 inplace]	4956 (0.10 pts/cycle)
fft_spectrum16x32	N=2048[mode=0 bexp=-1 inplace]	19705 (0.10 pts/cycle)
fft_spectrum16x32	N=4096[mode=0 bexp=-1 inplace]	39368 (0.10 pts/cycle)
fft_spectrum16x32	N=8192[mode=0 bexp=-1 inplace]	78696 (0.10 pts/cycle)
fft_spectrum16x32	N=16384[mode=0 bexp=-1 inplace]	157353 (0.10 pts/cycle)
fft_spectrum16x32	N=32768[mode=0 bexp=-1 inplace]	314664 (0.10 pts/cycle)
fft_spectrum16x32	N=65536[mode=0 bexp=-1 inplace]	629288 (0.10 pts/cycle)
fft_spectrum16x32	N=1024[mode=0 bexp=-1 inplace]	9873 (0.10 pts/cycle)
fft_spectrum16x32	N=2[mode=1 bexp=-1 inplace]	115 (0.02 pts/cycle)
fft_spectrum16x32	N=4[mode=1 bexp=-1 inplace]	191 (0.02 pts/cycle)
fft_spectrum16x32	N=8[mode=1 bexp=-1 inplace]	217 (0.04 pts/cycle)
fft_spectrum16x32	N=16[mode=1 bexp=-1 inplace]	259 (0.06 pts/cycle)
fft_spectrum16x32	N=32[mode=1 bexp=-1 inplace]	335 (0.10 pts/cycle)
fft_spectrum16x32	N=64[mode=1 bexp=-1 inplace]	481 (0.13 pts/cycle)
fft_spectrum16x32	N=128[mode=1 bexp=-1 inplace]	768 (0.17 pts/cycle)
fft_spectrum16x32	N=256[mode=1 bexp=-1 inplace]	1345 (0.19 pts/cycle)
fft_spectrum16x32	N=512[mode=1 bexp=-1 inplace]	2573 (0.20 pts/cycle)
fft_spectrum16x32	N=2048[mode=1 bexp=-1 inplace]	9948 (0.21 pts/cycle)
fft_spectrum16x32	N=4096[mode=1 bexp=-1 inplace]	19779 (0.21 pts/cycle)
fft_spectrum16x32	N=8192[mode=1 bexp=-1 inplace]	39444 (0.21 pts/cycle)
fft_spectrum16x32	N=16384[mode=1 bexp=-1 inplace]	78771 (0.21 pts/cycle)
fft_spectrum16x32	N=32768[mode=1 bexp=-1 inplace]	157428 (0.21 pts/cycle)
fft_spectrum16x32	N=65536[mode=1 bexp=-1 inplace]	314739 (0.21 pts/cycle)
fft_spectrum16x32	N=1024[mode=1 bexp=-1 inplace]	5031 (0.20 pts/cycle)
fft_spectrum32x32	N=2[mode=0 bexp=-1]	139 (0.01 pts/cycle)
fft_spectrum32x32	N=4[mode=0 bexp=-1]	180 (0.02 pts/cycle)
fft_spectrum32x32	N=8[mode=0 bexp=-1]	225 (0.04 pts/cycle)
fft_spectrum32x32	N=16[mode=0 bexp=-1]	311 (0.05 pts/cycle)
fft_spectrum32x32	N=32[mode=0 bexp=-1]	477 (0.07 pts/cycle)
fft_spectrum32x32	N=64[mode=0 bexp=-1]	817 (0.08 pts/cycle)
fft_spectrum32x32	N=128[mode=0 bexp=-1]	1593 (0.08 pts/cycle)
fft_spectrum32x32	N=256[mode=0 bexp=-1]	3145 (0.08 pts/cycle)
fft_spectrum32x32	N=512[mode=0 bexp=-1]	6249 (0.08 pts/cycle)
fft_spectrum32x32	N=2048[mode=0 bexp=-1]	24874 (0.08 pts/cycle)
fft_spectrum32x32	N=4096[mode=0 bexp=-1]	49708 (0.08 pts/cycle)
fft_spectrum32x32	N=8192[mode=0 bexp=-1]	99371 (0.08 pts/cycle)
fft_spectrum32x32	N=16384[mode=0 bexp=-1]	198699 (0.08 pts/cycle)
fft_spectrum32x32	N=32768[mode=0 bexp=-1]	397354 (0.08 pts/cycle)
fft_spectrum32x32	N=65536[mode=0 bexp=-1]	794667 (0.08 pts/cycle)
fft_spectrum32x32	N=1024[mode=0 bexp=-1]	12459 (0.08 pts/cycle)
fft_spectrum32x32	N=2[mode=1 bexp=-1]	140 (0.01 pts/cycle)
fft_spectrum32x32	N=4[mode=1 bexp=-1]	237 (0.02 pts/cycle)
fft_spectrum32x32	N=8[mode=1 bexp=-1]	279 (0.03 pts/cycle)
fft_spectrum32x32	N=16[mode=1 bexp=-1]	324 (0.05 pts/cycle)
fft_spectrum32x32	N=32[mode=1 bexp=-1]	411 (0.08 pts/cycle)
fft_spectrum32x32	N=64[mode=1 bexp=-1]	576 (0.11 pts/cycle)
fft_spectrum32x32	N=128[mode=1 bexp=-1]	917 (0.14 pts/cycle)
fft_spectrum32x32	N=256[mode=1 bexp=-1]	1693 (0.15 pts/cycle)
fft_spectrum32x32	N=512[mode=1 bexp=-1]	3248 (0.16 pts/cycle)
fft_spectrum32x32	N=2048[mode=1 bexp=-1]	12577 (0.16 pts/cycle)
fft_spectrum32x32	N=4096[mode=1 bexp=-1]	25009 (0.16 pts/cycle)
fft_spectrum32x32	N=8192[mode=1 bexp=-1]	49873 (0.16 pts/cycle)
fft_spectrum32x32	N=16384[mode=1 bexp=-1]	99596 (0.16 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_spectrum32x32	N=32768[mode=1 bexp=-1]	199052 (0.16 pts/cycle)
fft_spectrum32x32	N=65536[mode=1 bexp=-1]	397964 (0.16 pts/cycle)
fft_spectrum32x32	N=1024[mode=1 bexp=-1]	6360 (0.16 pts/cycle)
fft_spectrum32x32	N=2[mode=0 bexp=-1 inplace]	140 (0.01 pts/cycle)
fft_spectrum32x32	N=4[mode=0 bexp=-1 inplace]	181 (0.02 pts/cycle)
fft_spectrum32x32	N=8[mode=0 bexp=-1 inplace]	226 (0.04 pts/cycle)
fft_spectrum32x32	N=16[mode=0 bexp=-1 inplace]	312 (0.05 pts/cycle)
fft_spectrum32x32	N=32[mode=0 bexp=-1 inplace]	478 (0.07 pts/cycle)
fft_spectrum32x32	N=64[mode=0 bexp=-1 inplace]	818 (0.08 pts/cycle)
fft_spectrum32x32	N=128[mode=0 bexp=-1 inplace]	1594 (0.08 pts/cycle)
fft_spectrum32x32	N=256[mode=0 bexp=-1 inplace]	3146 (0.08 pts/cycle)
fft_spectrum32x32	N=512[mode=0 bexp=-1 inplace]	6250 (0.08 pts/cycle)
fft_spectrum32x32	N=2048[mode=0 bexp=-1 inplace]	24874 (0.08 pts/cycle)
fft_spectrum32x32	N=4096[mode=0 bexp=-1 inplace]	49706 (0.08 pts/cycle)
fft_spectrum32x32	N=8192[mode=0 bexp=-1 inplace]	99370 (0.08 pts/cycle)
fft_spectrum32x32	N=16384[mode=0 bexp=-1 inplace]	198698 (0.08 pts/cycle)
fft_spectrum32x32	N=32768[mode=0 bexp=-1 inplace]	397354 (0.08 pts/cycle)
fft_spectrum32x32	N=65536[mode=0 bexp=-1 inplace]	794666 (0.08 pts/cycle)
fft_spectrum32x32	N=1024[mode=0 bexp=-1 inplace]	12458 (0.08 pts/cycle)
fft_spectrum32x32	N=2[mode=1 bexp=-1 inplace]	139 (0.01 pts/cycle)
fft_spectrum32x32	N=4[mode=1 bexp=-1 inplace]	237 (0.02 pts/cycle)
fft_spectrum32x32	N=8[mode=1 bexp=-1 inplace]	278 (0.03 pts/cycle)
fft_spectrum32x32	N=16[mode=1 bexp=-1 inplace]	324 (0.05 pts/cycle)
fft_spectrum32x32	N=32[mode=1 bexp=-1 inplace]	410 (0.08 pts/cycle)
fft_spectrum32x32	N=64[mode=1 bexp=-1 inplace]	576 (0.11 pts/cycle)
fft_spectrum32x32	N=128[mode=1 bexp=-1 inplace]	916 (0.14 pts/cycle)
fft_spectrum32x32	N=256[mode=1 bexp=-1 inplace]	1693 (0.15 pts/cycle)
fft_spectrum32x32	N=512[mode=1 bexp=-1 inplace]	3247 (0.16 pts/cycle)
fft_spectrum32x32	N=2048[mode=1 bexp=-1 inplace]	12576 (0.16 pts/cycle)
fft_spectrum32x32	N=4096[mode=1 bexp=-1 inplace]	25008 (0.16 pts/cycle)
fft_spectrum32x32	N=8192[mode=1 bexp=-1 inplace]	49872 (0.16 pts/cycle)
fft_spectrum32x32	N=16384[mode=1 bexp=-1 inplace]	99595 (0.16 pts/cycle)
fft_spectrum32x32	N=32768[mode=1 bexp=-1 inplace]	199050 (0.16 pts/cycle)
fft_spectrum32x32	N=65536[mode=1 bexp=-1 inplace]	397964 (0.16 pts/cycle)
fft_spectrum32x32	N=1024[mode=1 bexp=-1 inplace]	6359 (0.16 pts/cycle)
fft_spectrumf	N=2[mode=0]	112 (0.02 pts/cycle)
fft_spectrumf	N=4[mode=0]	142 (0.03 pts/cycle)
fft_spectrumf	N=8[mode=0]	227 (0.04 pts/cycle)
fft_spectrumf	N=16[mode=0]	364 (0.04 pts/cycle)
fft_spectrumf	N=32[mode=0]	640 (0.05 pts/cycle)
fft_spectrumf	N=64[mode=0]	1192 (0.05 pts/cycle)
fft_spectrumf	N=128[mode=0]	2296 (0.06 pts/cycle)
fft_spectrumf	N=256[mode=0]	4576 (0.06 pts/cycle)
fft_spectrumf	N=512[mode=0]	9136 (0.06 pts/cycle)
fft_spectrumf	N=2048[mode=0]	36497 (0.06 pts/cycle)
fft_spectrumf	N=4096[mode=0]	72977 (0.06 pts/cycle)
fft_spectrumf	N=8192[mode=0]	145937 (0.06 pts/cycle)
fft_spectrumf	N=16384[mode=0]	291857 (0.06 pts/cycle)
fft_spectrumf	N=32768[mode=0]	583697 (0.06 pts/cycle)
fft_spectrumf	N=65536[mode=0]	1167377 (0.06 pts/cycle)
fft_spectrumf	N=1024[mode=0]	18256 (0.06 pts/cycle)
fft_spectrumf	N=2[mode=1]	111 (0.02 pts/cycle)
fft_spectrumf	N=4[mode=1]	207 (0.02 pts/cycle)
fft_spectrumf	N=8[mode=1]	242 (0.03 pts/cycle)
fft_spectrumf	N=16[mode=1]	322 (0.05 pts/cycle)
fft_spectrumf	N=32[mode=1]	459 (0.07 pts/cycle)
fft_spectrumf	N=64[mode=1]	735 (0.09 pts/cycle)
fft_spectrumf	N=128[mode=1]	1287 (0.10 pts/cycle)
fft_spectrumf	N=256[mode=1]	2391 (0.11 pts/cycle)
fft_spectrumf	N=512[mode=1]	4671 (0.11 pts/cycle)
fft_spectrumf	N=2048[mode=1]	18352 (0.11 pts/cycle)
fft_spectrumf	N=4096[mode=1]	36592 (0.11 pts/cycle)
fft_spectrumf	N=8192[mode=1]	73072 (0.11 pts/cycle)
fft_spectrumf	N=16384[mode=1]	146032 (0.11 pts/cycle)
fft_spectrumf	N=32768[mode=1]	291952 (0.11 pts/cycle)
fft_spectrumf	N=65536[mode=1]	583792 (0.11 pts/cycle)
fft_spectrumf	N=1024[mode=1]	9232 (0.11 pts/cycle)
fft_spectrumf	N=2[mode=0 inplace]	112 (0.02 pts/cycle)
fft_spectrumf	N=4[mode=0 inplace]	142 (0.03 pts/cycle)
fft_spectrumf	N=8[mode=0 inplace]	227 (0.04 pts/cycle)
fft_spectrumf	N=16[mode=0 inplace]	364 (0.04 pts/cycle)
fft_spectrumf	N=32[mode=0 inplace]	640 (0.05 pts/cycle)
fft_spectrumf	N=64[mode=0 inplace]	1192 (0.05 pts/cycle)
fft_spectrumf	N=128[mode=0 inplace]	2296 (0.06 pts/cycle)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
fft_spectrumf	N=256[mode=0 inplace]	4576 (0.06 pts/cycle)
fft_spectrumf	N=512[mode=0 inplace]	9136 (0.06 pts/cycle)
fft_spectrumf	N=2048[mode=0 inplace]	36496 (0.06 pts/cycle)
fft_spectrumf	N=4096[mode=0 inplace]	72976 (0.06 pts/cycle)
fft_spectrumf	N=8192[mode=0 inplace]	145936 (0.06 pts/cycle)
fft_spectrumf	N=16384[mode=0 inplace]	291856 (0.06 pts/cycle)
fft_spectrumf	N=32768[mode=0 inplace]	583696 (0.06 pts/cycle)
fft_spectrumf	N=65536[mode=0 inplace]	1167376 (0.06 pts/cycle)
fft_spectrumf	N=1024[mode=0 inplace]	18256 (0.06 pts/cycle)
fft_spectrumf	N=2[mode=1 inplace]	111 (0.02 pts/cycle)
fft_spectrumf	N=4[mode=1 inplace]	207 (0.02 pts/cycle)
fft_spectrumf	N=8[mode=1 inplace]	242 (0.03 pts/cycle)
fft_spectrumf	N=16[mode=1 inplace]	322 (0.05 pts/cycle)
fft_spectrumf	N=32[mode=1 inplace]	459 (0.07 pts/cycle)
fft_spectrumf	N=64[mode=1 inplace]	735 (0.09 pts/cycle)
fft_spectrumf	N=128[mode=1 inplace]	1287 (0.10 pts/cycle)
fft_spectrumf	N=256[mode=1 inplace]	2391 (0.11 pts/cycle)
fft_spectrumf	N=512[mode=1 inplace]	4671 (0.11 pts/cycle)
fft_spectrumf	N=2048[mode=1 inplace]	18351 (0.11 pts/cycle)
fft_spectrumf	N=4096[mode=1 inplace]	36591 (0.11 pts/cycle)
fft_spectrumf	N=8192[mode=1 inplace]	73071 (0.11 pts/cycle)
fft_spectrumf	N=16384[mode=1 inplace]	146031 (0.11 pts/cycle)
fft_spectrumf	N=32768[mode=1 inplace]	291951 (0.11 pts/cycle)
fft_spectrumf	N=65536[mode=1 inplace]	583790 (0.11 pts/cycle)
fft_spectrumf	N=1024[mode=1 inplace]	9229 (0.11 pts/cycle)
logmel32x32_process	Fs: 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 20; Flavor: HTK	1903 (cycles per STFT hop)
logmel32x32_process	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	2767 (cycles per STFT hop)
logmel32x32_process	Fs: 24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	3397 (cycles per STFT hop)
logmel32x32_process	Fs: 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	4652 (cycles per STFT hop)
logmel32x32_process	Fs: 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 40; Flavor: AUDITORY	2504 (cycles per STFT hop)
logmel32x32_process	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	3431 (cycles per STFT hop)
logmel32x32_process	Fs: 24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	4068 (cycles per STFT hop)
logmel32x32_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	4716 (cycles per STFT hop)
mfcc32x32_process	Fs: 16000; fftSize: 512; Win: 25 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	7570 (cycles per STFT hop)
mfcc32x32_process	Fs: 24000; fftSize: 1024; Win: 25 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	11799 (cycles per STFT hop)
mfcc32x32_process	Fs: 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	19618 (cycles per STFT hop)
mfcc32x32_process	Fs: 8000; fftSize: 256; Win: 16 ms; Hop: 10 ms; Range: 133.3-3700.0 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	4917 (cycles per STFT hop)
mfcc32x32_process	Fs: 16000; fftSize: 512; Win: 16 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	7492 (cycles per STFT hop)
mfcc32x32_process	Fs: 24000; fftSize: 1024; Win: 16 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	10760 (cycles per STFT hop)
mfcc32x32_process	Fs: 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	19137 (cycles per STFT hop)
logmelf_process	Fs: 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 20; Flavor: HTK	2632 (cycles per STFT hop)
logmelf_process	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	3913 (cycles per STFT hop)
logmelf_process	Fs: 24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	4850 (cycles per STFT hop)
logmelf_process	Fs: 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands: 20; Flavor: HTK	6727 (cycles per STFT hop)
logmelf_process	Fs: 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 40; Flavor: AUDITORY	3535 (cycles per STFT hop)
logmelf_process	Fs: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	4907 (cycles per STFT hop)
logmelf_process	Fs: 24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	5860 (cycles per STFT hop)
logmelf_process	Fs: 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands: 40; Flavor: AUDITORY	7652 (cycles per STFT hop)
mfccf_process	Fs: 8000; fftSize: 256; Win: 25 ms; Hop: 10 ms; Range: 133.3-3700.0 Hz; Bands: 20; Ceps: 13; Flavor: HTK	5908 (cycles per STFT hop)
mfccf_process	Fs: 16000; fftSize: 512; Win: 25 ms; Hop: 10 ms; Range:	10314 (cycles per STFT hop)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
	133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	
mfccf_process	Fs: 24000; fftSize: 1024; Win: 25 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	15855 (cycles per STFT hop)
mfccf_process	Fs: 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	29143 (cycles per STFT hop)
mfccf_process	Fs: 8000; fftSize: 256; Win: 16 ms; Hop: 10 ms; Range: 133.3-3700.0 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	5942 (cycles per STFT hop)
mfccf_process	Fs: 16000; fftSize: 512; Win: 16 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	9633 (cycles per STFT hop)
mfccf_process	Fs: 24000; fftSize: 1024; Win: 16 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	14348 (cycles per STFT hop)
mfccf_process	Fs: 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range: 133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	26675 (cycles per STFT hop)
image processing functions		
image rotation		
imgrotate_gu8_process	SQCIF(128x96) 0 degrees	8918 (cycles)
imgrotate_gu8_process	SQCIF(128x96) 90 degrees	22230 (cycles)
imgrotate_gu8_process	SQCIF(128x96) 180 degrees	7509 (cycles)
imgrotate_gu8_process	SQCIF(128x96) 270 degrees	22481 (cycles)
imgrotate_gu8_process	SQCIF(128x96) 45 degrees	201250 (cycles)
imgrotate_gu8_process	SQCIF(128x96) 135 degrees	201199 (cycles)
imgrotate_gu8_process	SQCIF(128x96) 225 degrees	201478 (cycles)
imgrotate_gu8_process	SQCIF(128x96) 315 degrees	201560 (cycles)
imgrotate_gu8_process	QCIF(176x144) 0 degrees	15326 (cycles)
imgrotate_gu8_process	QCIF(176x144) 90 degrees	44503 (cycles)
imgrotate_gu8_process	QCIF(176x144) 180 degrees	13997 (cycles)
imgrotate_gu8_process	QCIF(176x144) 270 degrees	44882 (cycles)
imgrotate_gu8_process	QCIF(176x144) 45 degrees	393901 (cycles)
imgrotate_gu8_process	QCIF(176x144) 135 degrees	385854 (cycles)
imgrotate_gu8_process	QCIF(176x144) 225 degrees	394213 (cycles)
imgrotate_gu8_process	QCIF(176x144) 315 degrees	386398 (cycles)
imgrotate_gu8_process	CIF(352x288) 0 degrees	45622 (cycles)
imgrotate_gu8_process	CIF(352x288) 90 degrees	171223 (cycles)
imgrotate_gu8_process	CIF(352x288) 180 degrees	48429 (cycles)
imgrotate_gu8_process	CIF(352x288) 270 degrees	171977 (cycles)
imgrotate_gu8_process	CIF(352x288) 45 degrees	1457764 (cycles)
imgrotate_gu8_process	CIF(352x288) 135 degrees	1401844 (cycles)
imgrotate_gu8_process	CIF(352x288) 225 degrees	1458387 (cycles)
imgrotate_gu8_process	CIF(352x288) 315 degrees	1402928 (cycles)
imgrotate_gu8_process	QVGA(320x240) 0 degrees	35833 (cycles)
imgrotate_gu8_process	QVGA(320x240) 90 degrees	130232 (cycles)
imgrotate_gu8_process	QVGA(320x240) 180 degrees	37265 (cycles)
imgrotate_gu8_process	QVGA(320x240) 270 degrees	130860 (cycles)
imgrotate_gu8_process	QVGA(320x240) 45 degrees	1121136 (cycles)
imgrotate_gu8_process	QVGA(320x240) 135 degrees	1099057 (cycles)
imgrotate_gu8_process	QVGA(320x240) 225 degrees	1121704 (cycles)
imgrotate_gu8_process	QVGA(320x240) 315 degrees	1099953 (cycles)
imgrotate_gu8_process	VGA(640x480) 0 degrees	116979 (cycles)
imgrotate_gu8_process	VGA(640x480) 90 degrees	509912 (cycles)
imgrotate_gu8_process	VGA(640x480) 180 degrees	136773 (cycles)
imgrotate_gu8_process	VGA(640x480) 270 degrees	511171 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 0 degrees	2638 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 90 degrees	5788 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 180 degrees	6200 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 270 degrees	5831 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 45 degrees	187160 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 135 degrees	197024 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 225 degrees	187260 (cycles)
imgfastrotate_gu8_process	SQCIF(128x96) 315 degrees	195382 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 0 degrees	4750 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 90 degrees	10654 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 180 degrees	11816 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 270 degrees	10721 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 45 degrees	364614 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 135 degrees	378635 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 225 degrees	364798 (cycles)
imgfastrotate_gu8_process	QCIF(176x144) 315 degrees	375457 (cycles)
imgfastrotate_gu8_process	CIF(352x288) 0 degrees	15694 (cycles)
imgfastrotate_gu8_process	CIF(352x288) 90 degrees	43216 (cycles)
imgfastrotate_gu8_process	CIF(352x288) 180 degrees	42488 (cycles)
imgfastrotate_gu8_process	CIF(352x288) 270 degrees	43355 (cycles)
imgfastrotate_gu8_process	CIF(352x288) 45 degrees	1350220 (cycles)
imgfastrotate_gu8_process	CIF(352x288) 135 degrees	1392221 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastrotate_gu8_process	CIF(352x288) 225 degrees	1350512 (cycles)
imgfastrotate_gu8_process	CIF(352x288) 315 degrees	1381123 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 0 degrees	12142 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 90 degrees	32919 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 180 degrees	32551 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 270 degrees	33034 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 45 degrees	1037981 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 135 degrees	1089284 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 225 degrees	1038225 (cycles)
imgfastrotate_gu8_process	QVGA(320x240) 315 degrees	1080876 (cycles)
imgfastrotate_gu8_process	VGA(640x480) 0 degrees	43342 (cycles)
imgfastrotate_gu8_process	VGA(640x480) 90 degrees	128069 (cycles)
imgfastrotate_gu8_process	VGA(640x480) 180 degrees	122551 (cycles)
imgfastrotate_gu8_process	VGA(640x480) 270 degrees	128302 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 0 degrees	8919 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 90 degrees	22230 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 180 degrees	7511 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 270 degrees	22481 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 45 degrees	202234 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 135 degrees	202952 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 225 degrees	202401 (cycles)
imgrotate_gs8_process	SQCIF(128x96) 315 degrees	203118 (cycles)
imgrotate_gs8_process	QCIF(176x144) 0 degrees	15324 (cycles)
imgrotate_gs8_process	QCIF(176x144) 90 degrees	44502 (cycles)
imgrotate_gs8_process	QCIF(176x144) 180 degrees	13993 (cycles)
imgrotate_gs8_process	QCIF(176x144) 270 degrees	44878 (cycles)
imgrotate_gs8_process	QCIF(176x144) 45 degrees	397271 (cycles)
imgrotate_gs8_process	QCIF(176x144) 135 degrees	390894 (cycles)
imgrotate_gs8_process	QCIF(176x144) 225 degrees	397586 (cycles)
imgrotate_gs8_process	QCIF(176x144) 315 degrees	391144 (cycles)
imgrotate_gs8_process	CIF(352x288) 0 degrees	45621 (cycles)
imgrotate_gs8_process	CIF(352x288) 90 degrees	171223 (cycles)
imgrotate_gs8_process	CIF(352x288) 180 degrees	48429 (cycles)
imgrotate_gs8_process	CIF(352x288) 270 degrees	171977 (cycles)
imgrotate_gs8_process	CIF(352x288) 45 degrees	1471423 (cycles)
imgrotate_gs8_process	CIF(352x288) 135 degrees	1422578 (cycles)
imgrotate_gs8_process	CIF(352x288) 225 degrees	1471872 (cycles)
imgrotate_gs8_process	CIF(352x288) 315 degrees	1423086 (cycles)
imgrotate_gs8_process	QVGA(320x240) 0 degrees	35833 (cycles)
imgrotate_gs8_process	QVGA(320x240) 90 degrees	130230 (cycles)
imgrotate_gs8_process	QVGA(320x240) 180 degrees	37263 (cycles)
imgrotate_gs8_process	QVGA(320x240) 270 degrees	130860 (cycles)
imgrotate_gs8_process	QVGA(320x240) 45 degrees	1130719 (cycles)
imgrotate_gs8_process	QVGA(320x240) 135 degrees	1113749 (cycles)
imgrotate_gs8_process	QVGA(320x240) 225 degrees	1131130 (cycles)
imgrotate_gs8_process	QVGA(320x240) 315 degrees	1114175 (cycles)
imgrotate_gs8_process	VGA(640x480) 0 degrees	116980 (cycles)
imgrotate_gs8_process	VGA(640x480) 90 degrees	509910 (cycles)
imgrotate_gs8_process	VGA(640x480) 180 degrees	136775 (cycles)
imgrotate_gs8_process	VGA(640x480) 270 degrees	511171 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 0 degrees	2638 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 90 degrees	5788 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 180 degrees	6199 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 270 degrees	5830 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 45 degrees	189607 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 135 degrees	199187 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 225 degrees	189635 (cycles)
imgfastrotate_gs8_process	SQCIF(128x96) 315 degrees	197611 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 0 degrees	4750 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 90 degrees	10653 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 180 degrees	11815 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 270 degrees	10720 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 45 degrees	369840 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 135 degrees	383599 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 225 degrees	369844 (cycles)
imgfastrotate_gs8_process	QCIF(176x144) 315 degrees	380523 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 0 degrees	15694 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 90 degrees	43214 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 180 degrees	42487 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 270 degrees	43354 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 45 degrees	1374550 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 135 degrees	1413543 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 225 degrees	1374626 (cycles)
imgfastrotate_gs8_process	CIF(352x288) 315 degrees	1402577 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastrotate_gs8_process	QVGA(320x240) 0 degrees	12142 (cycles)
imgfastrotate_gs8_process	QVGA(320x240) 90 degrees	32916 (cycles)
imgfastrotate_gs8_process	QVGA(320x240) 180 degrees	32551 (cycles)
imgfastrotate_gs8_process	QVGA(320x240) 270 degrees	33032 (cycles)
imgfastrotate_gs8_process	QVGA(320x240) 45 degrees	1055783 (cycles)
imgfastrotate_gs8_process	QVGA(320x240) 135 degrees	1104930 (cycles)
imgfastrotate_gs8_process	QVGA(320x240) 225 degrees	1055847 (cycles)
imgfastrotate_gs8_process	QVGA(320x240) 315 degrees	1096689 (cycles)
imgfastrotate_gs8_process	VGA(640x480) 0 degrees	43343 (cycles)
imgfastrotate_gs8_process	VGA(640x480) 90 degrees	128066 (cycles)
imgfastrotate_gs8_process	VGA(640x480) 180 degrees	122551 (cycles)
imgfastrotate_gs8_process	VGA(640x480) 270 degrees	128302 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 0 degrees	5545 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 90 degrees	12258 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 180 degrees	7350 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 270 degrees	11725 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 45 degrees	189834 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 135 degrees	193696 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 225 degrees	189711 (cycles)
imgrotate_gs16_process	SQCIF(128x96) 315 degrees	192801 (cycles)
imgrotate_gs16_process	QCIF(176x144) 0 degrees	10405 (cycles)
imgrotate_gs16_process	QCIF(176x144) 90 degrees	24057 (cycles)
imgrotate_gs16_process	QCIF(176x144) 180 degrees	14405 (cycles)
imgrotate_gs16_process	QCIF(176x144) 270 degrees	23056 (cycles)
imgrotate_gs16_process	QCIF(176x144) 45 degrees	361130 (cycles)
imgrotate_gs16_process	QCIF(176x144) 135 degrees	362644 (cycles)
imgrotate_gs16_process	QCIF(176x144) 225 degrees	360695 (cycles)
imgrotate_gs16_process	QCIF(176x144) 315 degrees	361302 (cycles)
imgrotate_gs16_process	CIF(352x288) 0 degrees	36507 (cycles)
imgrotate_gs16_process	CIF(352x288) 90 degrees	91520 (cycles)
imgrotate_gs16_process	CIF(352x288) 180 degrees	54005 (cycles)
imgrotate_gs16_process	CIF(352x288) 270 degrees	87924 (cycles)
imgrotate_gs16_process	CIF(352x288) 45 degrees	1343435 (cycles)
imgrotate_gs16_process	CIF(352x288) 135 degrees	1332290 (cycles)
imgrotate_gs16_process	CIF(352x288) 225 degrees	1343968 (cycles)
imgrotate_gs16_process	CIF(352x288) 315 degrees	1329607 (cycles)
imgrotate_gs16_process	QVGA(320x240) 0 degrees	28045 (cycles)
imgrotate_gs16_process	QVGA(320x240) 90 degrees	70014 (cycles)
imgrotate_gs16_process	QVGA(320x240) 180 degrees	41189 (cycles)
imgrotate_gs16_process	QVGA(320x240) 270 degrees	67225 (cycles)
imgrotate_gs16_process	QVGA(320x240) 45 degrees	1026351 (cycles)
imgrotate_gs16_process	QVGA(320x240) 135 degrees	1037037 (cycles)
imgrotate_gs16_process	QVGA(320x240) 225 degrees	1024596 (cycles)
imgrotate_gs16_process	QVGA(320x240) 315 degrees	1034801 (cycles)
imgrotate_gs16_process	VGA(640x480) 0 degrees	103945 (cycles)
imgrotate_gs16_process	VGA(640x480) 90 degrees	271876 (cycles)
imgrotate_gs16_process	VGA(640x480) 180 degrees	159029 (cycles)
imgrotate_gs16_process	VGA(640x480) 270 degrees	261487 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 0 degrees	4076 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 90 degrees	5175 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 180 degrees	4379 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 270 degrees	5147 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 45 degrees	178421 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 135 degrees	187115 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 225 degrees	178347 (cycles)
imgfastrotate_gs16_process	SQCIF(128x96) 315 degrees	186596 (cycles)
imgfastrotate_gs16_process	QCIF(176x144) 0 degrees	7772 (cycles)
imgfastrotate_gs16_process	QCIF(176x144) 90 degrees	9833 (cycles)
imgfastrotate_gs16_process	QCIF(176x144) 180 degrees	8217 (cycles)
imgfastrotate_gs16_process	QCIF(176x144) 270 degrees	9794 (cycles)
imgfastrotate_gs16_process	QCIF(176x144) 45 degrees	345079 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastrotate_gs16_process	QCIF(176x144) 135 degrees	356822 (cycles)
imgfastrotate_gs16_process	QCIF(176x144) 225 degrees	344970 (cycles)
imgfastrotate_gs16_process	QCIF(176x144) 315 degrees	356051 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 0 degrees	28077 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 90 degrees	35329 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 180 degrees	28954 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 270 degrees	35255 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 45 degrees	1275474 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 135 degrees	1315785 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 225 degrees	1275257 (cycles)
imgfastrotate_gs16_process	CIF(352x288) 315 degrees	1314329 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 0 degrees	21500 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 90 degrees	27070 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 180 degrees	22233 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 270 degrees	27010 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 45 degrees	982647 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 135 degrees	1028149 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 225 degrees	982464 (cycles)
imgfastrotate_gs16_process	QVGA(320x240) 315 degrees	1026870 (cycles)
imgfastrotate_gs16_process	VGA(640x480) 0 degrees	81260 (cycles)
imgfastrotate_gs16_process	VGA(640x480) 90 degrees	101965 (cycles)
imgfastrotate_gs16_process	VGA(640x480) 180 degrees	82713 (cycles)
imgfastrotate_gs16_process	VGA(640x480) 270 degrees	101844 (cycles)
image processing functions		
image resize		
imgresize_gu8_process	SQCIF(128x96)->QCIF(176x144), nearest	58272 (cycles)
imgresize_gu8_process	SQCIF(128x96)->CIF (352x288), nearest	160382 (cycles)
imgresize_gu8_process	SQCIF(128x96)->QVGA(320x240), nearest	128729 (cycles)
imgresize_gu8_process	SQCIF(128x96)->VGA (640x480), nearest	396189 (cycles)
imgresize_gu8_process	QCIF(176x144)->SQCIF(128x96), nearest	38988 (cycles)
imgresize_gu8_process	QCIF(176x144)->CIF (352x288), nearest	88383 (cycles)
imgresize_gu8_process	QCIF(176x144)->QVGA(320x240), nearest	139549 (cycles)
imgresize_gu8_process	QCIF(176x144)->VGA (640x480), nearest	419469 (cycles)
imgresize_gu8_process	CIF (352x288)->SQCIF(128x96), nearest	56195 (cycles)
imgresize_gu8_process	CIF (352x288)->QCIF(176x144), nearest	50652 (cycles)
imgresize_gu8_process	CIF (352x288)->QVGA(320x240), nearest	184454 (cycles)
imgresize_gu8_process	CIF (352x288)->VGA (640x480), nearest	505389 (cycles)
imgresize_gu8_process	QVGA(320x240)->SQCIF(128x96), nearest	53077 (cycles)
imgresize_gu8_process	QVGA(320x240)->QCIF(176x144), nearest	85458 (cycles)
imgresize_gu8_process	QVGA(320x240)->CIF (352x288), nearest	216543 (cycles)
imgresize_gu8_process	QVGA(320x240)->VGA (640x480), nearest	235527 (cycles)
imgresize_gu8_process	VGA (640x480)->SQCIF(128x96), nearest	84276 (cycles)
imgresize_gu8_process	VGA (640x480)->QCIF(176x144), nearest	136137 (cycles)
imgresize_gu8_process	VGA (640x480)->CIF (352x288), nearest	309857 (cycles)
imgresize_gu8_process	VGA (640x480)->QVGA(320x240), nearest	138203 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->QCIF(176x144), nearest	28720 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->CIF (352x288), nearest	88587 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->QVGA(320x240), nearest	69256 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->VGA (640x480), nearest	230597 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->SQCIF(128x96), nearest	19011 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->CIF (352x288), nearest	48390 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastresize_gu8_process	QCIF(176x144)->QVGA(320x240), nearest	75257 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->VGA (640x480), nearest	242835 (cycles)
imgfastresize_gu8_process	CIF (352x288)->SQCIF(128x96), nearest	28324 (cycles)
imgfastresize_gu8_process	CIF (352x288)->QCIF(176x144), nearest	24048 (cycles)
imgfastresize_gu8_process	CIF (352x288)->QVGA(320x240), nearest	97695 (cycles)
imgfastresize_gu8_process	CIF (352x288)->VGA (640x480), nearest	286756 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->SQCIF(128x96), nearest	26693 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->QCIF(176x144), nearest	43983 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->CIF (352x288), nearest	117532 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->VGA (640x480), nearest	132295 (cycles)
imgfastresize_gu8_process	VGA (640x480)->SQCIF(128x96), nearest	43012 (cycles)
imgfastresize_gu8_process	VGA (640x480)->QCIF(176x144), nearest	68464 (cycles)
imgfastresize_gu8_process	VGA (640x480)->CIF (352x288), nearest	166710 (cycles)
imgfastresize_gu8_process	VGA (640x480)->QVGA(320x240), nearest	63647 (cycles)
imgresize_gs8_process	SQCIF(128x96)->QCIF(176x144), nearest	58272 (cycles)
imgresize_gs8_process	SQCIF(128x96)->CIF (352x288), nearest	160383 (cycles)
imgresize_gs8_process	SQCIF(128x96)->QVGA(320x240), nearest	128727 (cycles)
imgresize_gs8_process	SQCIF(128x96)->VGA (640x480), nearest	396189 (cycles)
imgresize_gs8_process	QCIF(176x144)->SQCIF(128x96), nearest	38987 (cycles)
imgresize_gs8_process	QCIF(176x144)->CIF (352x288), nearest	88382 (cycles)
imgresize_gs8_process	QCIF(176x144)->QVGA(320x240), nearest	139547 (cycles)
imgresize_gs8_process	QCIF(176x144)->VGA (640x480), nearest	419468 (cycles)
imgresize_gs8_process	CIF (352x288)->SQCIF(128x96), nearest	56194 (cycles)
imgresize_gs8_process	CIF (352x288)->QCIF(176x144), nearest	50651 (cycles)
imgresize_gs8_process	CIF (352x288)->QVGA(320x240), nearest	184453 (cycles)
imgresize_gs8_process	CIF (352x288)->VGA (640x480), nearest	505388 (cycles)
imgresize_gs8_process	QVGA(320x240)->SQCIF(128x96), nearest	53077 (cycles)
imgresize_gs8_process	QVGA(320x240)->QCIF(176x144), nearest	85457 (cycles)
imgresize_gs8_process	QVGA(320x240)->CIF (352x288), nearest	216542 (cycles)
imgresize_gs8_process	QVGA(320x240)->VGA (640x480), nearest	235526 (cycles)
imgresize_gs8_process	VGA (640x480)->SQCIF(128x96), nearest	84274 (cycles)
imgresize_gs8_process	VGA (640x480)->QCIF(176x144), nearest	136137 (cycles)
imgresize_gs8_process	VGA (640x480)->CIF (352x288), nearest	309856 (cycles)
imgresize_gs8_process	VGA (640x480)->QVGA(320x240), nearest	138203 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->QCIF(176x144), nearest	28721 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->CIF (352x288), nearest	88588 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->QVGA(320x240), nearest	69256 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->VGA (640x480), nearest	230596 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->SQCIF(128x96), nearest	19011 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->CIF (352x288), nearest	48389 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->QVGA(320x240), nearest	75256 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->VGA (640x480), nearest	242837 (cycles)
imgfastresize_gs8_process	CIF (352x288)->SQCIF(128x96), nearest	28324 (cycles)
imgfastresize_gs8_process	CIF (352x288)->QCIF(176x144), nearest	24048 (cycles)
imgfastresize_gs8_process	CIF (352x288)->QVGA(320x240), nearest	97696 (cycles)
imgfastresize_gs8_process	CIF (352x288)->VGA (640x480), nearest	286756 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->SQCIF(128x96), nearest	26691 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->QCIF(176x144), nearest	43984 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->CIF (352x288), nearest	117531 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->VGA (640x480), nearest	132294 (cycles)
imgfastresize_gs8_process	VGA (640x480)->SQCIF(128x96), nearest	43012 (cycles)
imgfastresize_gs8_process	VGA (640x480)->QCIF(176x144), nearest	68464 (cycles)
imgfastresize_gs8_process	VGA (640x480)->CIF (352x288), nearest	166707 (cycles)
imgfastresize_gs8_process	VGA (640x480)->QVGA(320x240), nearest	63646 (cycles)
imgresize_gs16_process	SQCIF(128x96)->QCIF(176x144), nearest	38216 (cycles)
imgresize_gs16_process	SQCIF(128x96)->CIF (352x288), nearest	103827 (cycles)
imgresize_gs16_process	SQCIF(128x96)->QVGA(320x240), nearest	82376 (cycles)
imgresize_gs16_process	SQCIF(128x96)->VGA (640x480), nearest	248428 (cycles)
imgresize_gs16_process	QCIF(176x144)->SQCIF(128x96), nearest	27820 (cycles)
imgresize_gs16_process	QCIF(176x144)->CIF (352x288), nearest	74323 (cycles)
imgresize_gs16_process	QCIF(176x144)->QVGA(320x240), nearest	94258 (cycles)
imgresize_gs16_process	QCIF(176x144)->VGA (640x480), nearest	272186 (cycles)
imgresize_gs16_process	CIF (352x288)->SQCIF(128x96), nearest	45243 (cycles)
imgresize_gs16_process	CIF (352x288)->QCIF(176x144), nearest	50405 (cycles)
imgresize_gs16_process	CIF (352x288)->QVGA(320x240), nearest	137817 (cycles)
imgresize_gs16_process	CIF (352x288)->VGA (640x480), nearest	359306 (cycles)
imgresize_gs16_process	QVGA(320x240)->SQCIF(128x96), nearest	42076 (cycles)
imgresize_gs16_process	QVGA(320x240)->QCIF(176x144), nearest	66730 (cycles)
imgresize_gs16_process	QVGA(320x240)->CIF (352x288), nearest	160851 (cycles)
imgresize_gs16_process	QVGA(320x240)->VGA (640x480), nearest	210069 (cycles)
imgresize_gs16_process	VGA (640x480)->SQCIF(128x96), nearest	73756 (cycles)
imgresize_gs16_process	VGA (640x480)->QCIF(176x144), nearest	114249 (cycles)
imgresize_gs16_process	VGA (640x480)->CIF (352x288), nearest	255892 (cycles)
imgresize_gs16_process	VGA (640x480)->QVGA(320x240), nearest	144293 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastresize_gs16_process	SQCIF(128x96)->QCIF(176x144), nearest	30680 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->CIF (352x288), nearest	88421 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->QVGA(320x240), nearest	69403 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->VGA (640x480), nearest	222221 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->SQCIF(128x96), nearest	20375 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->CIF (352x288), nearest	52904 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->QVGA(320x240), nearest	77442 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->VGA (640x480), nearest	236863 (cycles)
imgfastresize_gs16_process	CIF (352x288)->SQCIF(128x96), nearest	31728 (cycles)
imgfastresize_gs16_process	CIF (352x288)->QCIF(176x144), nearest	29278 (cycles)
imgfastresize_gs16_process	CIF (352x288)->QVGA(320x240), nearest	103296 (cycles)
imgfastresize_gs16_process	CIF (352x288)->VGA (640x480), nearest	293623 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->SQCIF(128x96), nearest	29351 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->QCIF(176x144), nearest	47807 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->CIF (352x288), nearest	124637 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->VGA (640x480), nearest	144199 (cycles)
imgfastresize_gs16_process	VGA (640x480)->SQCIF(128x96), nearest	49680 (cycles)
imgfastresize_gs16_process	VGA (640x480)->QCIF(176x144), nearest	78047 (cycles)
imgfastresize_gs16_process	VGA (640x480)->CIF (352x288), nearest	183239 (cycles)
imgfastresize_gs16_process	VGA (640x480)->QVGA(320x240), nearest	81070 (cycles)
imgresize_gu8_process	SQCIF(128x96)->QCIF(176x144), bilinear	84453 (cycles)
imgresize_gu8_process	SQCIF(128x96)->CIF (352x288), bilinear	246213 (cycles)
imgresize_gu8_process	SQCIF(128x96)->QVGA(320x240), bilinear	194965 (cycles)
imgresize_gu8_process	SQCIF(128x96)->VGA (640x480), bilinear	648057 (cycles)
imgresize_gu8_process	QCIF(176x144)->SQCIF(128x96), bilinear	99951 (cycles)
imgresize_gu8_process	QCIF(176x144)->CIF (352x288), bilinear	203503 (cycles)
imgresize_gu8_process	QCIF(176x144)->QVGA(320x240), bilinear	222213 (cycles)
imgresize_gu8_process	QCIF(176x144)->VGA (640x480), bilinear	697067 (cycles)
imgresize_gu8_process	CIF (352x288)->SQCIF(128x96), bilinear	211297 (cycles)
imgresize_gu8_process	CIF (352x288)->QCIF(176x144), bilinear	153085 (cycles)
imgresize_gu8_process	CIF (352x288)->QVGA(320x240), bilinear	516139 (cycles)
imgresize_gu8_process	CIF (352x288)->VGA (640x480), bilinear	848533 (cycles)
imgresize_gu8_process	QVGA(320x240)->SQCIF(128x96), bilinear	179592 (cycles)
imgresize_gu8_process	QVGA(320x240)->QCIF(176x144), bilinear	227108 (cycles)
imgresize_gu8_process	QVGA(320x240)->CIF (352x288), bilinear	358076 (cycles)
imgresize_gu8_process	QVGA(320x240)->VGA (640x480), bilinear	583189 (cycles)
imgresize_gu8_process	VGA (640x480)->SQCIF(128x96), bilinear	500133 (cycles)
imgresize_gu8_process	VGA (640x480)->QCIF(176x144), bilinear	548941 (cycles)
imgresize_gu8_process	VGA (640x480)->CIF (352x288), bilinear	865975 (cycles)
imgresize_gu8_process	VGA (640x480)->QVGA(320x240), bilinear	430200 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->QCIF(176x144), bilinear	74145 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->CIF (352x288), bilinear	222680 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->QVGA(320x240), bilinear	175677 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->VGA (640x480), bilinear	593608 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->SQCIF(128x96), bilinear	90952 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->CIF (352x288), bilinear	178278 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->QVGA(320x240), bilinear	201335 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->VGA (640x480), bilinear	641027 (cycles)
imgfastresize_gu8_process	CIF (352x288)->SQCIF(128x96), bilinear	197519 (cycles)
imgfastresize_gu8_process	CIF (352x288)->QCIF(176x144), bilinear	136402 (cycles)
imgfastresize_gu8_process	CIF (352x288)->QVGA(320x240), bilinear	490194 (cycles)
imgfastresize_gu8_process	CIF (352x288)->VGA (640x480), bilinear	787427 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->SQCIF(128x96), bilinear	167439 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->QCIF(176x144), bilinear	211792 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->CIF (352x288), bilinear	329441 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastresize_gu8_process	QVGA(320x240)->VGA (640x480), bilinear	523999 (cycles)
imgfastresize_gu8_process	VGA (640x480)->SQCIF(128x96), bilinear	479887 (cycles)
imgfastresize_gu8_process	VGA (640x480)->QCIF(176x144), bilinear	525791 (cycles)
imgfastresize_gu8_process	VGA (640x480)->CIF (352x288), bilinear	829027 (cycles)
imgfastresize_gu8_process	VGA (640x480)->QVGA(320x240), bilinear	398074 (cycles)
imgresize_gs8_process	SQCIF(128x96)->QCIF(176x144), bilinear	86879 (cycles)
imgresize_gs8_process	SQCIF(128x96)->CIF (352x288), bilinear	253751 (cycles)
imgresize_gs8_process	SQCIF(128x96)->QVGA(320x240), bilinear	200845 (cycles)
imgresize_gs8_process	SQCIF(128x96)->VGA (640x480), bilinear	668937 (cycles)
imgresize_gs8_process	QCIF(176x144)->SQCIF(128x96), bilinear	101681 (cycles)
imgresize_gs8_process	QCIF(176x144)->CIF (352x288), bilinear	211279 (cycles)
imgresize_gs8_process	QCIF(176x144)->QVGA(320x240), bilinear	228334 (cycles)
imgresize_gs8_process	QCIF(176x144)->VGA (640x480), bilinear	718187 (cycles)
imgresize_gs8_process	CIF (352x288)->SQCIF(128x96), bilinear	213746 (cycles)
imgresize_gs8_process	CIF (352x288)->QCIF(176x144), bilinear	156469 (cycles)
imgresize_gs8_process	CIF (352x288)->QVGA(320x240), bilinear	522980 (cycles)
imgresize_gs8_process	CIF (352x288)->VGA (640x480), bilinear	870374 (cycles)
imgresize_gs8_process	QVGA(320x240)->SQCIF(128x96), bilinear	181811 (cycles)
imgresize_gs8_process	QVGA(320x240)->QCIF(176x144), bilinear	230244 (cycles)
imgresize_gs8_process	QVGA(320x240)->CIF (352x288), bilinear	366324 (cycles)
imgresize_gs8_process	QVGA(320x240)->VGA (640x480), bilinear	604799 (cycles)
imgresize_gs8_process	VGA (640x480)->SQCIF(128x96), bilinear	503542 (cycles)
imgresize_gs8_process	VGA (640x480)->QCIF(176x144), bilinear	553287 (cycles)
imgresize_gs8_process	VGA (640x480)->CIF (352x288), bilinear	875432 (cycles)
imgresize_gs8_process	VGA (640x480)->QVGA(320x240), bilinear	438001 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->QCIF(176x144), bilinear	75635 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->CIF (352x288), bilinear	228057 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->QVGA(320x240), bilinear	180000 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->VGA (640x480), bilinear	611371 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->SQCIF(128x96), bilinear	91842 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->CIF (352x288), bilinear	183967 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->QVGA(320x240), bilinear	205681 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->VGA (640x480), bilinear	658813 (cycles)
imgfastresize_gs8_process	CIF (352x288)->SQCIF(128x96), bilinear	198481 (cycles)
imgfastresize_gs8_process	CIF (352x288)->QCIF(176x144), bilinear	137989 (cycles)
imgfastresize_gs8_process	CIF (352x288)->QVGA(320x240), bilinear	495475 (cycles)
imgfastresize_gs8_process	CIF (352x288)->VGA (640x480), bilinear	806149 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->SQCIF(128x96), bilinear	168304 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->QCIF(176x144), bilinear	214003 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->CIF (352x288), bilinear	335826 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->VGA (640x480), bilinear	541760 (cycles)
imgfastresize_gs8_process	VGA (640x480)->SQCIF(128x96), bilinear	481233 (cycles)
imgfastresize_gs8_process	VGA (640x480)->QCIF(176x144), bilinear	527761 (cycles)
imgfastresize_gs8_process	VGA (640x480)->CIF (352x288), bilinear	836610 (cycles)
imgfastresize_gs8_process	VGA (640x480)->QVGA(320x240), bilinear	402875 (cycles)
imgresize_gs16_process	SQCIF(128x96)->QCIF(176x144), bilinear	72885 (cycles)
imgresize_gs16_process	SQCIF(128x96)->CIF (352x288), bilinear	206925 (cycles)
imgresize_gs16_process	SQCIF(128x96)->QVGA(320x240), bilinear	164675 (cycles)
imgresize_gs16_process	SQCIF(128x96)->VGA (640x480), bilinear	539168 (cycles)
imgresize_gs16_process	QCIF(176x144)->SQCIF(128x96), bilinear	95239 (cycles)
imgresize_gs16_process	QCIF(176x144)->CIF (352x288), bilinear	165667 (cycles)
imgresize_gs16_process	QCIF(176x144)->QVGA(320x240), bilinear	193382 (cycles)
imgresize_gs16_process	QCIF(176x144)->VGA (640x480), bilinear	589631 (cycles)
imgresize_gs16_process	CIF (352x288)->SQCIF(128x96), bilinear	217860 (cycles)
imgresize_gs16_process	CIF (352x288)->QCIF(176x144), bilinear	154248 (cycles)
imgresize_gs16_process	CIF (352x288)->QVGA(320x240), bilinear	498582 (cycles)
imgresize_gs16_process	CIF (352x288)->VGA (640x480), bilinear	752376 (cycles)
imgresize_gs16_process	QVGA(320x240)->SQCIF(128x96), bilinear	182549 (cycles)
imgresize_gs16_process	QVGA(320x240)->QCIF(176x144), bilinear	224647 (cycles)
imgresize_gs16_process	QVGA(320x240)->CIF (352x288), bilinear	327895 (cycles)
imgresize_gs16_process	QVGA(320x240)->VGA (640x480), bilinear	483429 (cycles)
imgresize_gs16_process	VGA (640x480)->SQCIF(128x96), bilinear	541317 (cycles)
imgresize_gs16_process	VGA (640x480)->QCIF(176x144), bilinear	584724 (cycles)
imgresize_gs16_process	VGA (640x480)->CIF (352x288), bilinear	874039 (cycles)
imgresize_gs16_process	VGA (640x480)->QVGA(320x240), bilinear	447264 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->QCIF(176x144), bilinear	70739 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->CIF (352x288), bilinear	203767 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->QVGA(320x240), bilinear	161856 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->VGA (640x480), bilinear	534665 (cycles)
imgfastresize_gs16_proces	QCIF(176x144)->SQCIF(128x96), bilinear	92849 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastresize_gs16_process	QCIF(176x144)->CIF (352x288), bilinear	161936 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->QVGA(320x240), bilinear	189984 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->VGA (640x480), bilinear	584556 (cycles)
imgfastresize_gs16_process	CIF (352x288)->SQCIF(128x96), bilinear	213744 (cycles)
imgfastresize_gs16_process	CIF (352x288)->QCIF(176x144), bilinear	149794 (cycles)
imgfastresize_gs16_process	CIF (352x288)->QVGA(320x240), bilinear	493458 (cycles)
imgfastresize_gs16_process	CIF (352x288)->VGA (640x480), bilinear	745573 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->SQCIF(128x96), bilinear	179007 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->QCIF(176x144), bilinear	220769 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->CIF (352x288), bilinear	323009 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->VGA (640x480), bilinear	477199 (cycles)
imgfastresize_gs16_process	VGA (640x480)->SQCIF(128x96), bilinear	534896 (cycles)
imgfastresize_gs16_process	VGA (640x480)->QCIF(176x144), bilinear	577967 (cycles)
imgfastresize_gs16_process	VGA (640x480)->CIF (352x288), bilinear	866273 (cycles)
imgfastresize_gs16_process	VGA (640x480)->QVGA(320x240), bilinear	439834 (cycles)
imgresize_gu8_process	SQCIF(128x96)->QCIF(176x144), bicubic	112319 (cycles)
imgresize_gu8_process	SQCIF(128x96)->CIF (352x288), bicubic	323927 (cycles)
imgresize_gu8_process	SQCIF(128x96)->QVGA(320x240), bicubic	256333 (cycles)
imgresize_gu8_process	SQCIF(128x96)->VGA (640x480), bicubic	871658 (cycles)
imgresize_gu8_process	QCIF(176x144)->SQCIF(128x96), bicubic	134518 (cycles)
imgresize_gu8_process	QCIF(176x144)->CIF (352x288), bicubic	253421 (cycles)
imgresize_gu8_process	QCIF(176x144)->QVGA(320x240), bicubic	302239 (cycles)
imgresize_gu8_process	QCIF(176x144)->VGA (640x480), bicubic	921011 (cycles)
imgresize_gu8_process	CIF (352x288)->SQCIF(128x96), bicubic	309605 (cycles)
imgresize_gu8_process	CIF (352x288)->QCIF(176x144), bicubic	216776 (cycles)
imgresize_gu8_process	CIF (352x288)->QVGA(320x240), bicubic	699188 (cycles)
imgresize_gu8_process	CIF (352x288)->VGA (640x480), bicubic	1167905 (cycles)
imgresize_gu8_process	QVGA(320x240)->SQCIF(128x96), bicubic	260354 (cycles)
imgresize_gu8_process	QVGA(320x240)->QCIF(176x144), bicubic	312388 (cycles)
imgresize_gu8_process	QVGA(320x240)->CIF (352x288), bicubic	480858 (cycles)
imgresize_gu8_process	QVGA(320x240)->VGA (640x480), bicubic	727188 (cycles)
imgresize_gu8_process	VGA (640x480)->SQCIF(128x96), bicubic	792560 (cycles)
imgresize_gu8_process	VGA (640x480)->QCIF(176x144), bicubic	826864 (cycles)
imgresize_gu8_process	VGA (640x480)->CIF (352x288), bicubic	1202576 (cycles)
imgresize_gu8_process	VGA (640x480)->QVGA(320x240), bicubic	622771 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->QCIF(176x144), bicubic	102010 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->CIF (352x288), bicubic	300393 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->QVGA(320x240), bicubic	237045 (cycles)
imgfastresize_gu8_process	SQCIF(128x96)->VGA (640x480), bicubic	817213 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->SQCIF(128x96), bicubic	125520 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->CIF (352x288), bicubic	228195 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->QVGA(320x240), bicubic	281363 (cycles)
imgfastresize_gu8_process	QCIF(176x144)->VGA (640x480), bicubic	864968 (cycles)
imgfastresize_gu8_process	CIF (352x288)->SQCIF(128x96), bicubic	295827 (cycles)
imgfastresize_gu8_process	CIF (352x288)->QCIF(176x144), bicubic	200092 (cycles)
imgfastresize_gu8_process	CIF (352x288)->QVGA(320x240), bicubic	673239 (cycles)
imgfastresize_gu8_process	CIF (352x288)->VGA (640x480), bicubic	1106798 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->SQCIF(128x96), bicubic	248202 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->QCIF(176x144), bicubic	297071 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->CIF (352x288), bicubic	452222 (cycles)
imgfastresize_gu8_process	QVGA(320x240)->VGA (640x480), bicubic	667995 (cycles)
imgfastresize_gu8_process	VGA (640x480)->SQCIF(128x96), bicubic	772313 (cycles)
imgfastresize_gu8_process	VGA (640x480)->QCIF(176x144), bicubic	803715 (cycles)
imgfastresize_gu8_process	VGA (640x480)->CIF (352x288), bicubic	1165623 (cycles)
imgfastresize_gu8_process	VGA (640x480)->QVGA(320x240), bicubic	590644 (cycles)
imgresize_gs8_process	SQCIF(128x96)->QCIF(176x144), bicubic	114747 (cycles)
imgresize_gs8_process	SQCIF(128x96)->CIF (352x288), bicubic	331464 (cycles)
imgresize_gs8_process	SQCIF(128x96)->QVGA(320x240), bicubic	262213 (cycles)
imgresize_gs8_process	SQCIF(128x96)->VGA (640x480), bicubic	892539 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgresize_gs8_process	QCIF(176x144)->SQCIF(128x96), bicubic	136250 (cycles)
imgresize_gs8_process	QCIF(176x144)->CIF (352x288), bicubic	261197 (cycles)
imgresize_gs8_process	QCIF(176x144)->QVGA(320x240), bicubic	308361 (cycles)
imgresize_gs8_process	QCIF(176x144)->VGA (640x480), bicubic	942131 (cycles)
imgresize_gs8_process	CIF (352x288)->SQCIF(128x96), bicubic	312055 (cycles)
imgresize_gs8_process	CIF (352x288)->QCIF(176x144), bicubic	220159 (cycles)
imgresize_gs8_process	CIF (352x288)->QVGA(320x240), bicubic	706028 (cycles)
imgresize_gs8_process	CIF (352x288)->VGA (640x480), bicubic	1189745 (cycles)
imgresize_gs8_process	QVGA(320x240)->SQCIF(128x96), bicubic	262572 (cycles)
imgresize_gs8_process	QVGA(320x240)->QCIF(176x144), bicubic	315526 (cycles)
imgresize_gs8_process	QVGA(320x240)->CIF (352x288), bicubic	489106 (cycles)
imgresize_gs8_process	QVGA(320x240)->VGA (640x480), bicubic	748798 (cycles)
imgresize_gs8_process	VGA (640x480)->SQCIF(128x96), bicubic	795970 (cycles)
imgresize_gs8_process	VGA (640x480)->QCIF(176x144), bicubic	831209 (cycles)
imgresize_gs8_process	VGA (640x480)->CIF (352x288), bicubic	1212032 (cycles)
imgresize_gs8_process	VGA (640x480)->QVGA(320x240), bicubic	630571 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->QCIF(176x144), bicubic	103501 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->CIF (352x288), bicubic	305772 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->QVGA(320x240), bicubic	241367 (cycles)
imgfastresize_gs8_process	SQCIF(128x96)->VGA (640x480), bicubic	834974 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->SQCIF(128x96), bicubic	126410 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->CIF (352x288), bicubic	233884 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->QVGA(320x240), bicubic	285709 (cycles)
imgfastresize_gs8_process	QCIF(176x144)->VGA (640x480), bicubic	882755 (cycles)
imgfastresize_gs8_process	CIF (352x288)->SQCIF(128x96), bicubic	296788 (cycles)
imgfastresize_gs8_process	CIF (352x288)->QCIF(176x144), bicubic	201678 (cycles)
imgfastresize_gs8_process	CIF (352x288)->QVGA(320x240), bicubic	678522 (cycles)
imgfastresize_gs8_process	CIF (352x288)->VGA (640x480), bicubic	1125520 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->SQCIF(128x96), bicubic	249069 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->QCIF(176x144), bicubic	299282 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->CIF (352x288), bicubic	458608 (cycles)
imgfastresize_gs8_process	QVGA(320x240)->VGA (640x480), bicubic	685756 (cycles)
imgfastresize_gs8_process	VGA (640x480)->SQCIF(128x96), bicubic	773660 (cycles)
imgfastresize_gs8_process	VGA (640x480)->QCIF(176x144), bicubic	805684 (cycles)
imgfastresize_gs8_process	VGA (640x480)->CIF (352x288), bicubic	1173209 (cycles)
imgfastresize_gs8_process	VGA (640x480)->QVGA(320x240), bicubic	595448 (cycles)
imgresize_gs16_process	SQCIF(128x96)->QCIF(176x144), bicubic	100753 (cycles)
imgresize_gs16_process	SQCIF(128x96)->CIF (352x288), bicubic	284640 (cycles)
imgresize_gs16_process	SQCIF(128x96)->QVGA(320x240), bicubic	226043 (cycles)
imgresize_gs16_process	SQCIF(128x96)->VGA (640x480), bicubic	762770 (cycles)
imgresize_gs16_process	QCIF(176x144)->SQCIF(128x96), bicubic	129807 (cycles)
imgresize_gs16_process	QCIF(176x144)->CIF (352x288), bicubic	215585 (cycles)
imgresize_gs16_process	QCIF(176x144)->QVGA(320x240), bicubic	273409 (cycles)
imgresize_gs16_process	QCIF(176x144)->VGA (640x480), bicubic	813575 (cycles)
imgresize_gs16_process	CIF (352x288)->SQCIF(128x96), bicubic	316168 (cycles)
imgresize_gs16_process	CIF (352x288)->QCIF(176x144), bicubic	217937 (cycles)
imgresize_gs16_process	CIF (352x288)->QVGA(320x240), bicubic	681630 (cycles)
imgresize_gs16_process	CIF (352x288)->VGA (640x480), bicubic	1071747 (cycles)
imgresize_gs16_process	QVGA(320x240)->SQCIF(128x96), bicubic	263312 (cycles)
imgresize_gs16_process	QVGA(320x240)->QCIF(176x144), bicubic	309928 (cycles)
imgresize_gs16_process	QVGA(320x240)->CIF (352x288), bicubic	450676 (cycles)
imgresize_gs16_process	QVGA(320x240)->VGA (640x480), bicubic	627426 (cycles)
imgresize_gs16_process	VGA (640x480)->SQCIF(128x96), bicubic	833744 (cycles)
imgresize_gs16_process	VGA (640x480)->QCIF(176x144), bicubic	862647 (cycles)
imgresize_gs16_process	VGA (640x480)->CIF (352x288), bicubic	1210638 (cycles)
imgresize_gs16_process	VGA (640x480)->QVGA(320x240), bicubic	639834 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->QCIF(176x144), bicubic	98603 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->CIF (352x288), bicubic	281482 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->QVGA(320x240), bicubic	223222 (cycles)
imgfastresize_gs16_process	SQCIF(128x96)->VGA (640x480), bicubic	758269 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->SQCIF(128x96), bicubic	127418 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->CIF (352x288), bicubic	211852 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->QVGA(320x240), bicubic	270011 (cycles)
imgfastresize_gs16_process	QCIF(176x144)->VGA (640x480), bicubic	808497 (cycles)
imgfastresize_gs16_process	CIF (352x288)->SQCIF(128x96), bicubic	312051 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastresize_gs16_process	CIF (352x288)->QCIF(176x144), bicubic	213485 (cycles)
imgfastresize_gs16_process	CIF (352x288)->QVGA(320x240), bicubic	676505 (cycles)
imgfastresize_gs16_process	CIF (352x288)->VGA (640x480), bicubic	1064943 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->SQCIF(128x96), bicubic	259773 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->QCIF(176x144), bicubic	306048 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->CIF (352x288), bicubic	445791 (cycles)
imgfastresize_gs16_process	QVGA(320x240)->VGA (640x480), bicubic	621195 (cycles)
imgfastresize_gs16_process	VGA (640x480)->SQCIF(128x96), bicubic	827324 (cycles)
imgfastresize_gs16_process	VGA (640x480)->QCIF(176x144), bicubic	855893 (cycles)
imgfastresize_gs16_process	VGA (640x480)->CIF (352x288), bicubic	1202873 (cycles)
imgfastresize_gs16_process	VGA (640x480)->QVGA(320x240), bicubic	632404 (cycles)
image processing functions		
miscellaneous image processing		
imghist_gu8	SQCIF(128x96)	52146 (cycles)
imghist_gu8	QCIF(176x144)	100577 (cycles)
imghist_gu8	CIF (352x288)	365682 (cycles)
imghist_gu8	QVGA(320x240)	279809 (cycles)
imghist_gu8	VGA (640x480)	1058612 (cycles)
imgfasthist_gu8	SQCIF(128x96)	44380 (cycles)
imgfasthist_gu8	QCIF(176x144)	88925 (cycles)
imgfasthist_gu8	CIF (352x288)	342365 (cycles)
imgfasthist_gu8	QVGA(320x240)	260381 (cycles)
imgfasthist_gu8	VGA (640x480)	1019741 (cycles)
imghist_gs8	SQCIF(128x96)	54335 (cycles)
imghist_gs8	QCIF(176x144)	103856 (cycles)
imghist_gs8	CIF (352x288)	372238 (cycles)
imghist_gs8	QVGA(320x240)	285273 (cycles)
imghist_gs8	VGA (640x480)	1069533 (cycles)
imgfasthist_gs8	SQCIF(128x96)	45235 (cycles)
imgfasthist_gs8	QCIF(176x144)	90210 (cycles)
imgfasthist_gs8	CIF (352x288)	344947 (cycles)
imgfasthist_gs8	QVGA(320x240)	262530 (cycles)
imgfasthist_gs8	VGA (640x480)	1024051 (cycles)
imghist_gs16	SQCIF(128x96)	44034 (cycles)
imghist_gs16	QCIF(176x144)	88395 (cycles)
imghist_gs16	CIF (352x288)	341295 (cycles)
imghist_gs16	QVGA(320x240)	259490 (cycles)
imghist_gs16	VGA (640x480)	1017951 (cycles)
imgfasthist_gs16	SQCIF(128x96)	42946 (cycles)
imgfasthist_gs16	QCIF(176x144)	85906 (cycles)
imgfasthist_gs16	CIF (352x288)	329986 (cycles)
imgfasthist_gs16	QVGA(320x240)	251027 (cycles)
imgfasthist_gs16	VGA (640x480)	981827 (cycles)
imgnorm_gu8	SQCIF(128x96)	39612 (cycles)
imgnorm_gu8	QCIF(176x144)	71904 (cycles)
imgnorm_gu8	CIF (352x288)	235596 (cycles)
imgnorm_gu8	QVGA(320x240)	182424 (cycles)
imgnorm_gu8	VGA (640x480)	643164 (cycles)
imgfastnorm_gu8	SQCIF(128x96)	25136 (cycles)
imgfastnorm_gu8	QCIF(176x144)	49328 (cycles)
imgfastnorm_gu8	CIF (352x288)	184110 (cycles)
imgfastnorm_gu8	QVGA(320x240)	140478 (cycles)
imgfastnorm_gu8	VGA (640x480)	540078 (cycles)
imgnorm_gs8	SQCIF(128x96)	35100 (cycles)
imgnorm_gs8	QCIF(176x144)	63840 (cycles)
imgnorm_gs8	CIF (352x288)	209964 (cycles)
imgnorm_gs8	QVGA(320x240)	162500 (cycles)
imgnorm_gs8	VGA (640x480)	574524 (cycles)
imgfastnorm_gs8	SQCIF(128x96)	23599 (cycles)
imgfastnorm_gs8	QCIF(176x144)	46161 (cycles)
imgfastnorm_gs8	CIF (352x288)	171439 (cycles)
imgfastnorm_gs8	QVGA(320x240)	130879 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastnorm_gs8	VGA (640x480)	501679 (cycles)
imgnorm_gs16	SQCIF(128x96)	24507 (cycles)
imgnorm_gs16	QCIF(176x144)	47955 (cycles)
imgnorm_gs16	CIF (352x288)	178204 (cycles)
imgnorm_gs16	QVGA(320x240)	136037 (cycles)
imgnorm_gs16	VGA (640x480)	521595 (cycles)
imgfastnorm_gs16	SQCIF(128x96)	18533 (cycles)
imgfastnorm_gs16	QCIF(176x144)	36215 (cycles)
imgfastnorm_gs16	CIF (352x288)	135705 (cycles)
imgfastnorm_gs16	QVGA(320x240)	103806 (cycles)
imgfastnorm_gs16	VGA (640x480)	399525 (cycles)
imgnorm_gu8_nonlinear	SQCIF(128x96)	54572 (cycles)
imgnorm_gu8_nonlinear	QCIF(176x144)	106042 (cycles)
imgnorm_gu8_nonlinear	CIF (352x288)	389460 (cycles)
imgnorm_gu8_nonlinear	QVGA(320x240)	297693 (cycles)
imgnorm_gu8_nonlinear	VGA (640x480)	1132933 (cycles)
imgfastnorm_gu8_nonlinear	SQCIF(128x96)	49380 (cycles)
imgfastnorm_gu8_nonlinear	QCIF(176x144)	98259 (cycles)
imgfastnorm_gu8_nonlinear	CIF (352x288)	373863 (cycles)
imgfastnorm_gu8_nonlinear	QVGA(320x240)	284677 (cycles)
imgfastnorm_gu8_nonlinear	VGA (640x480)	1106930 (cycles)
imgnorm_gs8_nonlinear	SQCIF(128x96)	58098 (cycles)
imgnorm_gs8_nonlinear	QCIF(176x144)	113058 (cycles)
imgnorm_gs8_nonlinear	CIF (352x288)	416309 (cycles)
imgnorm_gs8_nonlinear	QVGA(320x240)	318024 (cycles)
imgnorm_gs8_nonlinear	VGA (640x480)	1212023 (cycles)
imgfastnorm_gs8_nonlinear	SQCIF(128x96)	48786 (cycles)
imgfastnorm_gs8_nonlinear	QCIF(176x144)	97361 (cycles)
imgfastnorm_gs8_nonlinear	CIF (352x288)	372115 (cycles)
imgfastnorm_gs8_nonlinear	QVGA(320x240)	283217 (cycles)
imgfastnorm_gs8_nonlinear	VGA (640x480)	1104019 (cycles)
imgnorm_gs16_nonlinear	SQCIF(128x96)	39078 (cycles)
imgnorm_gs16_nonlinear	QCIF(176x144)	77600 (cycles)
imgnorm_gs16_nonlinear	CIF (352x288)	294584 (cycles)
imgnorm_gs16_nonlinear	QVGA(320x240)	224375 (cycles)
imgnorm_gs16_nonlinear	VGA (640x480)	871121 (cycles)
imgfastnorm_gs16_nonlinear	SQCIF(128x96)	35597 (cycles)
imgfastnorm_gs16_nonlinear	QCIF(176x144)	70656 (cycles)
imgfastnorm_gs16_nonlinear	CIF (352x288)	268020 (cycles)
imgfastnorm_gs16_nonlinear	QVGA(320x240)	204178 (cycles)
imgfastnorm_gs16_nonlinear	VGA (640x480)	792289 (cycles)
imginterleave	SQCIF(128x96)	49594 (cycles)
imginterleave	QCIF(176x144)	101440 (cycles)
imginterleave	CIF (352x288)	401269 (cycles)
imginterleave	QVGA(320x240)	304330 (cycles)
imginterleave	VGA (640x480)	1209850 (cycles)
imginterleave16	SQCIF(128x96)	20659 (cycles)
imginterleave16	QCIF(176x144)	41347 (cycles)
imginterleave16	CIF (352x288)	158708 (cycles)
imginterleave16	QVGA(320x240)	120741 (cycles)
imgfastinterleave	SQCIF(128x96)	24594 (cycles)
imgfastinterleave	QCIF(176x144)	49840 (cycles)
imgfastinterleave	CIF (352x288)	194705 (cycles)
imgfastinterleave	QVGA(320x240)	147858 (cycles)
imgfastinterleave	VGA (640x480)	583697 (cycles)
imgfastinterleave16	SQCIF(128x96)	19315 (cycles)
imgfastinterleave16	QCIF(176x144)	38469 (cycles)
imgfastinterleave16	CIF (352x288)	146611 (cycles)
imgfastinterleave16	QVGA(320x240)	111620 (cycles)
imgdeinterleave	SQCIF(128x96)	50935 (cycles)
imgdeinterleave	QCIF(176x144)	103934 (cycles)
imgdeinterleave	CIF (352x288)	409817 (cycles)
imgdeinterleave	QVGA(320x240)	310917 (cycles)
imgdeinterleave	VGA (640x480)	1233821 (cycles)
imgdeinterleave16	SQCIF(128x96)	21256 (cycles)
imgdeinterleave16	QCIF(176x144)	42242 (cycles)
imgdeinterleave16	CIF (352x288)	160493 (cycles)
imgdeinterleave16	QVGA(320x240)	122227 (cycles)
imgfastdeinterleave	SQCIF(128x96)	15284 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastdeinterleave	QCIF(176x144)	29397 (cycles)
imgfastdeinterleave	CIF(352x288)	106291 (cycles)
imgfastdeinterleave	QVGA(320x240)	81379 (cycles)
imgfastdeinterleave	VGA (640x480)	306740 (cycles)
imgfastdeinterleave16	SQCIF(128x96)	18740 (cycles)
imgfastdeinterleave16	QCIF(176x144)	37605 (cycles)
imgfastdeinterleave16	CIF (352x288)	144883 (cycles)
imgfastdeinterleave16	QVGA(320x240)	110181 (cycles)
imgconvert_rgbyuv	SQCIF(128x96)	122152 (cycles)
imgconvert_rgbyuv	QCIF(176x144)	249510 (cycles)
imgconvert_rgbyuv	CIF (352x288)	985240 (cycles)
imgconvert_rgbyuv	QVGA(320x240)	747361 (cycles)
imgconvert_rgbyuv	VGA (640x480)	2968267 (cycles)
imgconvert_rgbyuv16	SQCIF(128x96)	79406 (cycles)
imgconvert_rgbyuv16	QCIF(176x144)	158821 (cycles)
imgconvert_rgbyuv16	CIF (352x288)	609038 (cycles)
imgconvert_rgbyuv16	QVGA(320x240)	463383 (cycles)
imgconvert_rgbyuv16	VGA (640x480)	1809904 (cycles)
imgfastconvert_rgbyuv	SQCIF(128x96)	74846 (cycles)
imgfastconvert_rgbyuv	QCIF(176x144)	149390 (cycles)
imgfastconvert_rgbyuv	CIF (352x288)	571166 (cycles)
imgfastconvert_rgbyuv	QVGA(320x240)	434702 (cycles)
imgfastconvert_rgbyuv	VGA (640x480)	1694942 (cycles)
imgfastconvert_rgbyuv16	SQCIF(128x96)	49403 (cycles)
imgfastconvert_rgbyuv16	QCIF(176x144)	99992 (cycles)
imgfastconvert_rgbyuv16	CIF (352x288)	390007 (cycles)
imgfastconvert_rgbyuv16	QVGA(320x240)	296216 (cycles)
imgfastconvert_rgbyuv16	VGA (640x480)	1168377 (cycles)
imgconvert_yuvrgb	SQCIF(128x96)	129292 (cycles)
imgconvert_yuvrgb	QCIF(176x144)	263045 (cycles)
imgconvert_yuvrgb	CIF (352x288)	1032940 (cycles)
imgconvert_yuvrgb	QVGA(320x240)	783995 (cycles)
imgconvert_yuvrgb	VGA (640x480)	3103949 (cycles)
imgconvert_yuvrgb16	SQCIF(128x96)	83004 (cycles)
imgconvert_yuvrgb16	QCIF(176x144)	169413 (cycles)
imgconvert_yuvrgb16	CIF (352x288)	668255 (cycles)
imgconvert_yuvrgb16	QVGA(320x240)	506966 (cycles)
imgconvert_yuvrgb16	VGA (640x480)	2012292 (cycles)
imgfastconvert_yuvrgb	SQCIF(128x96)	69835 (cycles)
imgfastconvert_yuvrgb	QCIF(176x144)	141883 (cycles)
imgfastconvert_yuvrgb	CIF (352x288)	556171 (cycles)
imgfastconvert_yuvrgb	QVGA(320x240)	422204 (cycles)
imgfastconvert_yuvrgb	VGA (640x480)	1669964 (cycles)
imgfastconvert_yuvrgb16	SQCIF(128x96)	49578 (cycles)
imgfastconvert_yuvrgb16	QCIF(176x144)	100268 (cycles)
imgfastconvert_yuvrgb16	CIF (352x288)	390573 (cycles)
imgfastconvert_yuvrgb16	QVGA(320x240)	296683 (cycles)
imgfastconvert_yuvrgb16	VGA (640x480)	1169323 (cycles)
imgpad_gu8	padding, SQCIF(128x96)->QCIF(176x144)	30637 (cycles)
imgpad_gu8	padding, SQCIF(128x96)->CIF (352x288)	124358 (cycles)
imgpad_gu8	padding, SQCIF(128x96)->QVGA(320x240)	88412 (cycles)
imgpad_gu8	padding, SQCIF(128x96)->VGA (640x480)	363997 (cycles)
imgpad_gu8	padding, QCIF(176x144)->CIF (352x288)	105998 (cycles)
imgpad_gu8	padding, QCIF(176x144)->QVGA(320x240)	76533 (cycles)
imgpad_gu8	padding, QCIF(176x144)->VGA (640x480)	364001 (cycles)
imgpad_gu8	padding, QVGA(320x240)->CIF (352x288)	115738 (cycles)
imgpad_gu8	padding, QVGA(320x240)->VGA (640x480)	307829 (cycles)
imgpad_gu8	padding, CIF (352x288)->VGA (640x480)	277043 (cycles)
imgpad_gs8	padding, SQCIF(128x96)->QCIF(176x144)	30677 (cycles)
imgpad_gs8	padding, SQCIF(128x96)->CIF (352x288)	124399 (cycles)
imgpad_gs8	padding, SQCIF(128x96)->QVGA(320x240)	88451 (cycles)
imgpad_gs8	padding, SQCIF(128x96)->VGA (640x480)	364038 (cycles)
imgpad_gs8	padding, QCIF(176x144)->CIF (352x288)	106039 (cycles)
imgpad_gs8	padding, QCIF(176x144)->QVGA(320x240)	76571 (cycles)
imgpad_gs8	padding, QCIF(176x144)->VGA (640x480)	364036 (cycles)
imgpad_gs8	padding, QVGA(320x240)->CIF (352x288)	115775 (cycles)
imgpad_gs8	padding, QVGA(320x240)->VGA (640x480)	307865 (cycles)
imgpad_gs8	padding, CIF (352x288)->VGA (640x480)	277079 (cycles)
imgpad_gs16	padding, SQCIF(128x96)->QCIF(176x144)	15102 (cycles)
imgpad_gs16	padding, SQCIF(128x96)->CIF (352x288)	63112 (cycles)
imgpad_gs16	padding, SQCIF(128x96)->QVGA(320x240)	45849 (cycles)
imgpad_gs16	padding, SQCIF(128x96)->VGA (640x480)	184694 (cycles)
imgpad_gs16	padding, QCIF(176x144)->CIF (352x288)	54303 (cycles)
imgpad_gs16	padding, QCIF(176x144)->QVGA(320x240)	39719 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgpad_gs16	padding, QCIF(176x144)->VGA (640x480)	184694 (cycles)
imgpad_gs16	padding, QVGA(320x240)->CIF (352x288)	54447 (cycles)
imgpad_gs16	padding, QVGA(320x240)->VGA (640x480)	152990 (cycles)
imgpad_gs16	padding, CIF (352x288)->VGA (640x480)	143823 (cycles)
imgfastpad_gu8	padding, SQCIF(128x96)->QCIF(176x144)	7709 (cycles)
imgfastpad_gu8	padding, SQCIF(128x96)->CIF (352x288)	29846 (cycles)
imgfastpad_gu8	padding, SQCIF(128x96)->QVGA(320x240)	21991 (cycles)
imgfastpad_gu8	padding, SQCIF(128x96)->VGA (640x480)	85127 (cycles)
imgfastpad_gu8	padding, QCIF(176x144)->CIF (352x288)	26011 (cycles)
imgfastpad_gu8	padding, QCIF(176x144)->QVGA(320x240)	19399 (cycles)
imgfastpad_gu8	padding, QCIF(176x144)->VGA (640x480)	85128 (cycles)
imgfastpad_gu8	padding, QVGA(320x240)->CIF (352x288)	20793 (cycles)
imgfastpad_gu8	padding, QVGA(320x240)->VGA (640x480)	69790 (cycles)
imgfastpad_gu8	padding, CIF (352x288)->VGA (640x480)	64605 (cycles)
imgfastpad_gs8	padding, SQCIF(128x96)->QCIF(176x144)	7744 (cycles)
imgfastpad_gs8	padding, SQCIF(128x96)->CIF (352x288)	29885 (cycles)
imgfastpad_gs8	padding, SQCIF(128x96)->QVGA(320x240)	22030 (cycles)
imgfastpad_gs8	padding, SQCIF(128x96)->VGA (640x480)	85166 (cycles)
imgfastpad_gs8	padding, QCIF(176x144)->CIF (352x288)	26050 (cycles)
imgfastpad_gs8	padding, QCIF(176x144)->QVGA(320x240)	19440 (cycles)
imgfastpad_gs8	padding, QCIF(176x144)->VGA (640x480)	85168 (cycles)
imgfastpad_gs8	padding, QVGA(320x240)->CIF (352x288)	20830 (cycles)
imgfastpad_gs8	padding, QVGA(320x240)->VGA (640x480)	69826 (cycles)
imgfastpad_gs8	padding, CIF (352x288)->VGA (640x480)	64642 (cycles)
imgfastpad_gs16	padding, SQCIF(128x96)->QCIF(176x144)	11754 (cycles)
imgfastpad_gs16	padding, SQCIF(128x96)->CIF (352x288)	54111 (cycles)
imgfastpad_gs16	padding, SQCIF(128x96)->QVGA(320x240)	39269 (cycles)
imgfastpad_gs16	padding, SQCIF(128x96)->VGA (640x480)	161175 (cycles)
imgfastpad_gs16	padding, QCIF(176x144)->CIF (352x288)	45863 (cycles)
imgfastpad_gs16	padding, QCIF(176x144)->QVGA(320x240)	33148 (cycles)
imgfastpad_gs16	padding, QCIF(176x144)->VGA (640x480)	161174 (cycles)
imgfastpad_gs16	padding, QVGA(320x240)->CIF (352x288)	35780 (cycles)
imgfastpad_gs16	padding, QVGA(320x240)->VGA (640x480)	130364 (cycles)
imgfastpad_gs16	padding, CIF (352x288)->VGA (640x480)	119925 (cycles)
imgpad_gu8	cropping, QCIF(176x144)->SQCIF(128x96)	18260 (cycles)
imgpad_gu8	cropping, CIF (352x288)->SQCIF(128x96)	17493 (cycles)
imgpad_gu8	cropping, QVGA(320x240)->SQCIF(128x96)	15779 (cycles)
imgpad_gu8	cropping, VGA (640x480)->SQCIF(128x96)	17684 (cycles)
imgpad_gu8	cropping, CIF (352x288)->QCIF(176x144)	29373 (cycles)
imgpad_gu8	cropping, QVGA(320x240)->QCIF(176x144)	29918 (cycles)
imgpad_gu8	cropping, VGA (640x480)->QCIF(176x144)	34052 (cycles)
imgpad_gu8	cropping, CIF (352x288)->QVGA(320x240)	117176 (cycles)
imgpad_gu8	cropping, VGA (640x480)->QVGA(320x240)	76274 (cycles)
imgpad_gu8	cropping, VGA (640x480)->CIF (352x288)	98223 (cycles)
imgpad_gs8	cropping, QCIF(176x144)->SQCIF(128x96)	18300 (cycles)
imgpad_gs8	cropping, CIF (352x288)->SQCIF(128x96)	17529 (cycles)
imgpad_gs8	cropping, QVGA(320x240)->SQCIF(128x96)	15815 (cycles)
imgpad_gs8	cropping, VGA (640x480)->SQCIF(128x96)	17722 (cycles)
imgpad_gs8	cropping, CIF (352x288)->QCIF(176x144)	29412 (cycles)
imgpad_gs8	cropping, QVGA(320x240)->QCIF(176x144)	29956 (cycles)
imgpad_gs8	cropping, VGA (640x480)->QCIF(176x144)	34089 (cycles)
imgpad_gs8	cropping, CIF (352x288)->QVGA(320x240)	117215 (cycles)
imgpad_gs8	cropping, VGA (640x480)->QVGA(320x240)	76315 (cycles)
imgpad_gs8	cropping, VGA (640x480)->CIF (352x288)	98261 (cycles)
imgpad_gs16	cropping, QCIF(176x144)->SQCIF(128x96)	8754 (cycles)
imgpad_gs16	cropping, CIF (352x288)->SQCIF(128x96)	9098 (cycles)
imgpad_gs16	cropping, QVGA(320x240)->SQCIF(128x96)	8418 (cycles)
imgpad_gs16	cropping, VGA (640x480)->SQCIF(128x96)	9481 (cycles)
imgpad_gs16	cropping, CIF (352x288)->QCIF(176x144)	14898 (cycles)
imgpad_gs16	cropping, QVGA(320x240)->QCIF(176x144)	15219 (cycles)
imgpad_gs16	cropping, VGA (640x480)->QCIF(176x144)	17979 (cycles)
imgpad_gs16	cropping, CIF (352x288)->QVGA(320x240)	44922 (cycles)
imgpad_gs16	cropping, VGA (640x480)->QVGA(320x240)	38682 (cycles)
imgpad_gs16	cropping, VGA (640x480)->CIF (352x288)	50610 (cycles)
imgfastpad_gu8	cropping, QCIF(176x144)->SQCIF(128x96)	4671 (cycles)
imgfastpad_gu8	cropping, CIF (352x288)->SQCIF(128x96)	4734 (cycles)
imgfastpad_gu8	cropping, QVGA(320x240)->SQCIF(128x96)	4562 (cycles)
imgfastpad_gu8	cropping, VGA (640x480)->SQCIF(128x96)	4928 (cycles)
imgfastpad_gu8	cropping, CIF (352x288)->QCIF(176x144)	7740 (cycles)
imgfastpad_gu8	cropping, QVGA(320x240)->QCIF(176x144)	7844 (cycles)
imgfastpad_gu8	cropping, VGA (640x480)->QCIF(176x144)	8975 (cycles)
imgfastpad_gu8	cropping, CIF (352x288)->QVGA(320x240)	16285 (cycles)
imgfastpad_gu8	cropping, VGA (640x480)->QVGA(320x240)	17727 (cycles)
imgfastpad_gu8	cropping, VGA (640x480)->CIF (352x288)	21758 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgfastpad_gs8	cropping, QCIF(176x144)->SQCIF(128x96)	4707 (cycles)
imgfastpad_gs8	cropping, CIF (352x288)->SQCIF(128x96)	4773 (cycles)
imgfastpad_gs8	cropping, QVGA(320x240)->SQCIF(128x96)	4602 (cycles)
imgfastpad_gs8	cropping, VGA (640x480)->SQCIF(128x96)	4964 (cycles)
imgfastpad_gs8	cropping, CIF (352x288)->QCIF(176x144)	7773 (cycles)
imgfastpad_gs8	cropping, QVGA(320x240)->QCIF(176x144)	7882 (cycles)
imgfastpad_gs8	cropping, VGA (640x480)->QCIF(176x144)	9014 (cycles)
imgfastpad_gs8	cropping, CIF (352x288)->QVGA(320x240)	16324 (cycles)
imgfastpad_gs8	cropping, VGA (640x480)->QVGA(320x240)	17763 (cycles)
imgfastpad_gs8	cropping, VGA (640x480)->CIF (352x288)	21796 (cycles)
imgfastpad_gs16	cropping, QCIF(176x144)->SQCIF(128x96)	6611 (cycles)
imgfastpad_gs16	cropping, CIF (352x288)->SQCIF(128x96)	7469 (cycles)
imgfastpad_gs16	cropping, QVGA(320x240)->SQCIF(128x96)	7089 (cycles)
imgfastpad_gs16	cropping, VGA (640x480)->SQCIF(128x96)	7851 (cycles)
imgfastpad_gs16	cropping, CIF (352x288)->QCIF(176x144)	11997 (cycles)
imgfastpad_gs16	cropping, QVGA(320x240)->QCIF(176x144)	11830 (cycles)
imgfastpad_gs16	cropping, VGA (640x480)->QCIF(176x144)	15063 (cycles)
imgfastpad_gs16	cropping, CIF (352x288)->QVGA(320x240)	28186 (cycles)
imgfastpad_gs16	cropping, VGA (640x480)->QVGA(320x240)	30683 (cycles)
imgfastpad_gs16	cropping, VGA (640x480)->CIF (352x288)	37776 (cycles)
image processing functions		
2D FFT for image data		
imgfft_gu8	64x64	62829 (cycles)
imgfft_gu8	128x128	233460 (cycles)
imgfft_gu8	256x256	895363 (cycles)
imgfft_gu8	512x512	3575264 (cycles)
imgfft_gu8	SQCIF(128x96)	181637 (cycles)
imgfft_gu8	QCIF(176x144)	505109 (cycles)
imgfft_gu8	QVGA(320x240)	1214824 (cycles)
imgfft_gu8	CIF (352x288)	1888859 (cycles)
imgfft_gu8	VGA (640x480)	4740125 (cycles)
imgfft_gs8	64x64	63726 (cycles)
imgfft_gs8	128x128	235893 (cycles)
imgfft_gs8	256x256	903429 (cycles)
imgfft_gs8	512x512	3603169 (cycles)
imgfft_gs8	SQCIF(128x96)	183525 (cycles)
imgfft_gs8	QCIF(176x144)	508326 (cycles)
imgfft_gs8	QVGA(320x240)	1223703 (cycles)
imgfft_gs8	CIF (352x288)	1900334 (cycles)
imgfft_gs8	VGA (640x480)	4772607 (cycles)
imgfft_gs16	64x64	62955 (cycles)
imgfft_gs16	128x128	235250 (cycles)
imgfft_gs16	256x256	905090 (cycles)
imgfft_gs16	512x512	3619294 (cycles)
imgfft_gs16	SQCIF(128x96)	182978 (cycles)
imgfft_gs16	QCIF(176x144)	508273 (cycles)
imgfft_gs16	QVGA(320x240)	1226820 (cycles)
imgfft_gs16	CIF (352x288)	1904986 (cycles)
imgfft_gs16	VGA (640x480)	4792925 (cycles)
imgifft_gu8	64x64	66970 (cycles)
imgifft_gu8	128x128	243375 (cycles)
imgifft_gu8	256x256	920990 (cycles)
imgifft_gu8	512x512	3651001 (cycles)
imgifft_gu8	SQCIF(128x96)	189307 (cycles)
imgifft_gu8	QCIF(176x144)	519362 (cycles)
imgifft_gu8	QVGA(320x240)	1252210 (cycles)
imgifft_gu8	CIF (352x288)	1930247 (cycles)
imgifft_gu8	VGA (640x480)	4842634 (cycles)
imgifft_gs8	64x64	66652 (cycles)
imgifft_gs8	128x128	243762 (cycles)
imgifft_gs8	256x256	925857 (cycles)
imgifft_gs8	512x512	3677118 (cycles)
imgifft_gs8	SQCIF(128x96)	189596 (cycles)
imgifft_gs8	QCIF(176x144)	520661 (cycles)
imgifft_gs8	QVGA(320x240)	1258695 (cycles)
imgifft_gs8	CIF (352x288)	1939178 (cycles)
imgifft_gs8	VGA (640x480)	4874797 (cycles)
imgifft_gs16	64x64	64471 (cycles)
imgifft_gs16	128x128	235309 (cycles)
imgifft_gs16	256x256	892572 (cycles)
imgifft_gs16	512x512	3545015 (cycles)
imgifft_gs16	SQCIF(128x96)	183255 (cycles)
imgifft_gs16	QCIF(176x144)	507696 (cycles)

Function name	Invocation parameters	Cycles Measurements
		RI2020.4, HiFi4 with VFPU, bd5
imgifft_gs16	QVGA(320x240)	1219810 (cycles)
imgifft_gs16	CIF (352x288)	1887909 (cycles)
imgifft_gs16	VGA (640x480)	4720232 (cycles)

Functions Code and Data Size

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

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

Object file	Code size	Data size	Symbols	
			Global	Referenced
bqriir16x16_df1_hifi4.o	1734		bqriir16x16_df1, bqriir16x16_df1_alloc, bqriir16x16_df1_groupDelay, bqriir16x16_df1_init	
bqriir16x16_df1_nd_hifi4.o	1983		bqriir16x16_df1_nd, bqriir16x16_df1_nd_alloc, bqriir16x16_df1_nd_groupDelay, bqriir16x16_df1_nd_init	
bqriir16x16_df2_hifi4.o	1918		bqriir16x16_df2, bqriir16x16_df2_alloc, bqriir16x16_df2_groupDelay, bqriir16x16_df2_init	
bqriir16x16_df2_nd_hifi4.o	1955		bqriir16x16_df2_nd, bqriir16x16_df2_nd_alloc, bqriir16x16_df2_nd_groupDelay, bqriir16x16_df2_nd_init	
bqriir32x16_df1_hifi4.o	49		bqriir32x16_df1_alloc, bqriir32x16_df1_groupDelay, bqriir32x16_df1_init	bqriir32x16_df1_nd_alloc, bqriir32x16_df1_nd_init
bqriir32x16_df1_process_hifi4.o	25		bqriir32x16_df1	bqriir32x16_df1_nd
bqriir32x16_df2_hifi4.o	49		bqriir32x16_df2_alloc, bqriir32x16_df2_groupDelay, bqriir32x16_df2_init	bqriir32x16_df2_nd_alloc, bqriir32x16_df2_nd_init
bqriir32x16_df2_process_hifi4.o	25		bqriir32x16_df2	bqriir32x16_df2_nd
bqriir32x32_df1_hifi4.o	49		bqriir32x32_df1_alloc, bqriir32x32_df1_groupDelay, bqriir32x32_df1_init	bqriir32x32_df1_nd_alloc, bqriir32x32_df1_nd_init
bqriir32x32_df1_process_hifi4.o	25		bqriir32x32_df1	bqriir32x32_df1_nd
bqriir32x32_df2_hifi4.o	49		bqriir32x32_df2_alloc, bqriir32x32_df2_groupDelay, bqriir32x32_df2_init	bqriir32x32_df2_nd_alloc, bqriir32x32_df2_nd_init
bqriir32x32_df2_process_hifi4.o	25		bqriir32x32_df2	bqriir32x32_df2_nd
bqriir32x16_df1_nd_hifi4.o	246		bqriir32x16_df1_nd_alloc, bqriir32x16_df1_nd_groupDelay, bqriir32x16_df1_nd_init	
bqriir32x16_df1_nd_process_hifi4.o	1485		bqriir32x16_df1_nd	
bqriir32x16_df2_nd_hifi4.o	221		bqriir32x16_df2_nd_alloc, bqriir32x16_df2_nd_groupDelay, bqriir32x16_df2_nd_init	
bqriir32x16_df2_nd_process_hifi4.o	1069		bqriir32x16_df2_nd	
bqriir32x32_df1_nd_hifi4.o	450		bqriir32x32_df1_nd_alloc, bqriir32x32_df1_nd_groupDelay, bqriir32x32_df1_nd_init	
bqriir32x32_df1_nd_process_hifi4.o	1821		bqriir32x32_df1_nd	
bqriir32x32_df2_nd_hifi4.o	158		bqriir32x32_df2_nd_alloc, bqriir32x32_df2_nd_groupDelay, bqriir32x32_df2_nd_init	

Object file	Code size	Data size	Symbols	
			Global	Referenced
bqriir32x32_df2_nd_process_hifi4.o	1229		bqriir32x32_df2_nd	
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	1676		vec_complex2mag	
fft_spectrumf_hifi4.o	1301		fft_spectrumf	
fft_spectrum16x32_hifi4.o	1873	24	fft_spectrum16x32	
fft_spectrum32x32_hifi4.o	2205	24	fft_spectrum32x32	
scl_add_32x16ef_hifi4.o	135		scl_add_32x16ef	
scl_mul_32x16ef_hifi4.o	104		scl_mul_32x16ef	
scl_mac_32x16ef_hifi4.o	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	816		vec_mac_32x16ef	
vec_dot_32x16ef_hifi4.o	1244		vec_dot_32x16ef	
vec_dot_batch16x16_fast_hifi4.o	305		vec_dot_batch16x16_fast	
vec_dot_batch16x16_hifi4.o	468		vec_dot_batch16x16	
vec_dot_batch8x16_fast_hifi4.o	324		vec_dot_batch8x16_fast	
vec_dot_batch8x16_hifi4.o	2346		vec_dot_batch8x16	
vec_dot_batch8x8_fast_hifi4.o	308		vec_dot_batch8x8_fast	
vec_dot_batch8x8_hifi4.o	8018		vec_dot_batch8x8	
vec_dot_batchf_fast_hifi4.o	365		vec_dot_batchf_fast	
vec_dot_batchf_hifi4.o	876		vec_dot_batchf	
dct_16x16_cffts_hifi4.o	1754	16	NatureDSP_Signal_522, NatureDSP_Signal_847	
dct_16x16_hifi4.o	1051		dct_16x16	NatureDSP_Signal_522, NatureDSP_Signal_847
dct_32x16_cffts_hifi4.o	1528	16	NatureDSP_Signal_016, NatureDSP_Signal_521	
dct_32x16_hifi4.o	434		dct_32x16	NatureDSP_Signal_016, NatureDSP_Signal_521
dct_32x32_cffts_hifi4.o	1466	24	NatureDSP_Signal_520, NatureDSP_Signal_848	
dct_32x32_hifi4.o	511		dct_32x32	NatureDSP_Signal_520, NatureDSP_Signal_848
dct4_32x16_hifi4.o	4666		dct4_32x16	
dct4_32x32_hifi4.o	4753		dct4_32x32	
dct2d_8x16_hifi4.o	966	52	dct2d_16_8, dct2d_8x16	
idct2d_16x8_hifi4.o	1339	52	idct2d_16_8, idct2d_16x8	
dctf_hifi4.o	1389	4	dctf	fft_cplxf_ie
fft_cplx_16x16_hifi4.o	350		fft_cplx16x16	NatureDSP_Signal_523, NatureDSP_Signal_524
fft_cplx_16x16_stages_scl2_r2_r3_r5_hifi4.o	5134	32	NatureDSP_Signal_509, NatureDSP_Signal_511, NatureDSP_Signal_572, NatureDSP_Signal_573, NatureDSP_Signal_577, NatureDSP_Signal_579	__divsi3
fft_cplx_16x16_stages_scl2_r4_r8_hifi4.o	7659	216	NatureDSP_Signal_510, NatureDSP_Signal_524, NatureDSP_Signal_563, NatureDSP_Signal_566, NatureDSP_Signal_567, NatureDSP_Signal_571, NatureDSP_Signal_578, NatureDSP_Signal_970, NatureDSP_Signal_971, NatureDSP_Signal_973	__divsi3, NatureDSP_Signal_509, NatureDSP_Signal_511, NatureDSP_Signal_572, NatureDSP_Signal_573, NatureDSP_Signal_577, NatureDSP_Signal_579
fft_cplx_16x16_stages_scl3_r2_r3_r5_hifi4.o	4148	32	NatureDSP_Signal_506, NatureDSP_Signal_508, NatureDSP_Signal_569, NatureDSP_Signal_570, NatureDSP_Signal_574, NatureDSP_Signal_576	__divsi3
fft_cplx_16x16_stages_scl3_r4_r8_hifi4.o	4620	104	NatureDSP_Signal_507, NatureDSP_Signal_523, NatureDSP_Signal_562, NatureDSP_Signal_564, NatureDSP_Signal_565, NatureDSP_Signal_568, NatureDSP_Signal_575	__divsi3, NatureDSP_Signal_506, NatureDSP_Signal_508, NatureDSP_Signal_569, NatureDSP_Signal_570, NatureDSP_Signal_574, NatureDSP_Signal_576
fft_cplx_32x16_hifi4.o	357		fft_cplx32x16	NatureDSP_Signal_518, NatureDSP_Signal_519
fft_cplx_32x16_stages_scl2_r2_r3_r5_hifi4.o	5672		NatureDSP_Signal_502, 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_560	__divsi3
fft_cplx_32x16_stages_scl2_r4_r8_hifi4.o	3950	104	NatureDSP_Signal_503, NatureDSP_Signal_519, NatureDSP_Signal_532, NatureDSP_Signal_538, NatureDSP_Signal_540, NatureDSP_Signal_549, NatureDSP_Signal_550, NatureDSP_Signal_558	__divsi3, NatureDSP_Signal_502, NatureDSP_Signal_504, NatureDSP_Signal_505, NatureDSP_Signal_539, NatureDSP_Signal_541,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_542, NatureDSP_Signal_548, NatureDSP_Signal_551, NatureDSP_Signal_552, NatureDSP_Signal_557, 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
fft_cplx_32x16_stages_scl3_r4_r8_hifi4.o	3250	104	NatureDSP_Signal_499, NatureDSP_Signal_518, NatureDSP_Signal_531, NatureDSP_Signal_533, NatureDSP_Signal_535, NatureDSP_Signal_544, NatureDSP_Signal_545, NatureDSP_Signal_554	__divsi3, 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
fft_cplx_32x32_hifi4.o	334		fft_cplx32x32	
fft_cplx_stages_S2_radix2_3_5_32x32_hifi4.o	5193		NatureDSP_Signal_341, NatureDSP_Signal_342, 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, NatureDSP_Signal_360	__divsi3
fft_cplx_stages_S2_radix4_8_32x32_hifi4.o	4764	24	NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_357, NatureDSP_Signal_358, NatureDSP_Signal_415, NatureDSP_Signal_417, NatureDSP_Signal_418, NatureDSP_Signal_419	__divsi3
fft_cplx_stages_S3_radix2_3_5_32x32_hifi4.o	4279		NatureDSP_Signal_361, NatureDSP_Signal_362, NatureDSP_Signal_363, NatureDSP_Signal_364, NatureDSP_Signal_365, NatureDSP_Signal_366, NatureDSP_Signal_370, NatureDSP_Signal_371, NatureDSP_Signal_372, NatureDSP_Signal_374, NatureDSP_Signal_375, NatureDSP_Signal_376, NatureDSP_Signal_377, NatureDSP_Signal_380, NatureDSP_Signal_381	__divsi3
fft_cplx_stages_S3_radix4_8_32x32_hifi4.o	4375	32	NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_373, NatureDSP_Signal_378, NatureDSP_Signal_379, NatureDSP_Signal_420, NatureDSP_Signal_421, NatureDSP_Signal_422	__divsi3
fft_real_16x16_hifi4.o	1173		fft_real16x16	fft_cplx16x16
fft_real_32x16_hifi4.o	389		fft_real32x16	fft_cplx32x16
fft_real_32x32_hifi4.o	949		fft_real32x32	
ifft_cplx_16x16_hifi4.o	339		ifft_cplx16x16	NatureDSP_Signal_523, NatureDSP_Signal_524
ifft_cplx_32x16_hifi4.o	354		ifft_cplx32x16	NatureDSP_Signal_518, NatureDSP_Signal_519
ifft_cplx_32x32_hifi4.o	319		ifft_cplx32x32	
ifft_real_16x16_hifi4.o	1529		ifft_real16x16	ifft_cplx16x16
ifft_real_32x16_hifi4.o	661		ifft_real32x16	NatureDSP_Signal_518, NatureDSP_Signal_519
ifft_real_32x32_hifi4.o	798		ifft_real32x32	
fft_cplx16x16_ie_hifi4.o	1699		fft_cplx16x16_ie	__divsi3, NatureDSP_Signal_340
fft_cplx32x16_ie_hifi4.o	2489		fft_cplx32x16_ie	
fft_cplx32x32_ie_hifi4.o	377		fft_cplx32x32_ie	NatureDSP_Signal_341, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_363, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_real16x16_ie_hifi4.o	657		fft_real16x16_ie	fft_cplx16x16_ie

Object file	Code size	Data size	Symbols	
			Global	Referenced
fft_real32x16_ie_hifi4.o	565		fft_real32x16_ie	fft_cplx32x16_ie
fft_real32x32_ie_hifi4.o	519		fft_real32x32_ie	fft_cplx32x32_ie
fft_stage_inner_DFT4_16x16_ie_hifi4.o	644		NatureDSP_Signal_340	__divsi3
ifft_cplx16x16_ie_hifi4.o	1626		ifft_cplx16x16_ie	__divsi3, NatureDSP_Signal_340
ifft_cplx32x16_ie_hifi4.o	2631		ifft_cplx32x16_ie	
ifft_cplx32x32_ie_hifi4.o	377		ifft_cplx32x32_ie	NatureDSP_Signal_341, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_363, NatureDSP_Signal_369, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
ifft_real16x16_ie_hifi4.o	704		ifft_real16x16_ie	ifft_cplx16x16_ie
ifft_real32x16_ie_hifi4.o	561		ifft_real32x16_ie	ifft_cplx32x16_ie
ifft_real32x32_ie_hifi4.o	439		ifft_real32x32_ie	ifft_cplx32x32_ie
fft_cplxf_ie_hifi4.o	1955	4	fft_cplxf_ie	
fft_realf_ie_hifi4.o	783		fft_realf_ie	fft_cplxf_ie
ifft_cplxf_ie_hifi4.o	1883	4	ifft_cplxf_ie	
ifft_realf_ie_hifi4.o	794		ifft_realf_ie	ifft_cplxf_ie
stereo_fft_cplx16x16_ie_hifi4.o	2162		stereo_fft_cplx16x16_ie	
stereo_fft_cplx32x16_ie_hifi4.o	608		stereo_fft_cplx32x16_ie	NatureDSP_Signal_800
stereo_fft_cplx32x32_ie_hifi4.o	969		stereo_fft_cplx32x32_ie	NatureDSP_Signal_801, NatureDSP_Signal_802
stereo_fft_cplxf_ie_hifi4.o	1215		stereo_fft_cplxf_ie	
stereo_ifft_cplx16x16_ie_hifi4.o	2121		stereo_ifft_cplx16x16_ie	
stereo_ifft_cplx32x16_ie_hifi4.o	1000		stereo_ifft_cplx32x16_ie	NatureDSP_Signal_800
stereo_ifft_cplx32x32_ie_hifi4.o	1403		stereo_ifft_cplx32x32_ie	NatureDSP_Signal_801, NatureDSP_Signal_802
stereo_ifft_cplxf_ie_hifi4.o	1336		stereo_ifft_cplxf_ie	
stereo_fft_cplx32x16_ie_inner_hifi4.o	2509		NatureDSP_Signal_800	
stereo_fft_cplx32x32_ie_inner_hifi4.o	2204		NatureDSP_Signal_801, NatureDSP_Signal_802	
imdct_32x16_hifi4.o	247		imdct_32x16	dct4_32x16
imdct_32x32_hifi4.o	247		imdct_32x32	dct4_32x32
mdct_32x16_hifi4.o	143		mdct_32x16	dct4_32x16
mdct_32x32_hifi4.o	148		mdct_32x32	dct4_32x32
conv2d_11x7_16x16_hifi4.o	1189		conv2d_11x7_16x16, conv2d_11x7_16x16_getScratchSize	
conv2d_11x7_8x16_hifi4.o	102		conv2d_11x7_8x16, conv2d_11x7_8x16_getScratchSize	conv2d_11x7_16x16, conv2d_11x7_16x16_getScratchSize
conv2d_11x7_8x8_hifi4.o	1406		conv2d_11x7_8x8, conv2d_11x7_8x8_getScratchSize	
conv2d_3x3_16x16_hifi4.o	509		conv2d_3x3_16x16, conv2d_3x3_16x16_getScratchSize	
conv2d_3x3_8x16_hifi4.o	92		conv2d_3x3_8x16, conv2d_3x3_8x16_getScratchSize	conv2d_3x3_16x16, conv2d_3x3_16x16_getScratchSize
conv2d_3x3_8x8_hifi4.o	753		conv2d_3x3_8x8, conv2d_3x3_8x8_getScratchSize	
conv2d_5x5_16x16_hifi4.o	1270		conv2d_5x5_16x16, conv2d_5x5_16x16_getScratchSize	
conv2d_5x5_8x16_hifi4.o	138		conv2d_5x5_8x16, conv2d_5x5_8x16_getScratchSize	conv2d_5x5_16x16, conv2d_5x5_16x16_getScratchSize
conv2d_5x5_8x8_hifi4.o	1581		conv2d_5x5_8x8, conv2d_5x5_8x8_getScratchSize	
conv2d_11x7f_hifi4.o	1163		conv2d_11x7f, conv2d_11x7f_getScratchSize	
conv2d_3x3f_hifi4.o	3805		conv2d_3x3f, conv2d_3x3f_getScratchSize	
conv2d_5x5f_hifi4.o	7164		conv2d_5x5f, conv2d_5x5f_getScratchSize	
stereo_bkfir16x16_hifi4.o	105		stereo_bkfir16x16_alloc, stereo_bkfir16x16_init	bkfir16x16_alloc, bkfir16x16_init
stereo_bkfir16x16_process_hifi4.o	570		stereo_bkfir16x16_process	bkfir16x16_process
stereo_bkfir32x32_hifi4.o	250		stereo_bkfir32x32_alloc, stereo_bkfir32x32_init	
stereo_bkfir32x32_process_hifi4.o	514		stereo_bkfir32x32_process	

Object file	Code size	Data size	Symbols	
			Global	Referenced
stereo_bqriir16x16_df1_hifi4.o	157		stereo_bqriir16x16_df1_alloc, stereo_bqriir16x16_df1_groupDelay, stereo_bqriir16x16_df1_init	bqriir16x16_df1_alloc, bqriir16x16_df1_init
stereo_bqriir16x16_df1_process_hifi4.o	629		stereo_bqriir16x16_df1	bqriir16x16_df1
stereo_bqriir32x16_df1_hifi4.o	65		stereo_bqriir32x16_df1_alloc, stereo_bqriir32x16_df1_groupDelay, stereo_bqriir32x16_df1_init	stereo_bqriir32x16_df1_nd_alloc, stereo_bqriir32x16_df1_nd_init
stereo_bqriir32x16_df1_process_hifi4.o	25		stereo_bqriir32x16_df1	stereo_bqriir32x16_df1_nd
stereo_bqriir32x32_df1_hifi4.o	65		stereo_bqriir32x32_df1_alloc, stereo_bqriir32x32_df1_groupDelay, stereo_bqriir32x32_df1_init	stereo_bqriir32x32_df1_nd_alloc, stereo_bqriir32x32_df1_nd_init
stereo_bqriir32x32_df1_process_hifi4.o	25		stereo_bqriir32x32_df1	stereo_bqriir32x32_df1_nd
stereo_bqriirf_df1_hifi4.o	234		stereo_bqriirf_df1_alloc, stereo_bqriirf_df1_groupDelay, stereo_bqriirf_df1_init	
stereo_bqriirf_df1_process_hifi4.o	1711		stereo_bqriirf_df1	
stereo_bqriir16x16_df1_nd_hifi4.o	149		stereo_bqriir16x16_df1_nd_alloc, stereo_bqriir16x16_df1_nd_groupDelay, stereo_bqriir16x16_df1_nd_init	bqriir16x16_df1_nd_alloc, bqriir16x16_df1_nd_init
stereo_bqriir16x16_df1_nd_process_hifi4.o	629		stereo_bqriir16x16_df1_nd	bqriir16x16_df1_nd
stereo_bqriir32x16_df1_nd_hifi4.o	390		stereo_bqriir32x16_df1_nd_alloc, stereo_bqriir32x16_df1_nd_groupDelay, stereo_bqriir32x16_df1_nd_init	
stereo_bqriir32x16_df1_nd_process_hifi4.o	1757		stereo_bqriir32x16_df1_nd	
stereo_bqriir32x32_df1_nd_hifi4.o	815		stereo_bqriir32x32_df1_nd_alloc, stereo_bqriir32x32_df1_nd_groupDelay, stereo_bqriir32x32_df1_nd_init	
stereo_bqriir32x32_df1_nd_process_hifi4.o	1184		stereo_bqriir32x32_df1_nd	
stereo_bqriirf_df1_nd_hifi4.o	226		stereo_bqriirf_df1_nd_alloc, stereo_bqriirf_df1_nd_groupDelay, stereo_bqriirf_df1_nd_init	
stereo_bqriirf_df1_nd_process_hifi4.o	1795		stereo_bqriirf_df1_nd	
stereo_bkfirf_hifi4.o	105		stereo_bkfirf_alloc, stereo_bkfirf_init	bkfirf_alloc, bkfirf_init
stereo_bkfirf_process_hifi4.o	317		stereo_bkfirf_process	bkfirf_process
bkfir24x24p_hifi4.o	296		bkfir24x24p_alloc, bkfir24x24p_init	
bkfir24x24p_process_hifi4.o	723		bkfir24x24p_process	
bkfir16x16_hifi4.o	880		bkfir16x16_alloc, bkfir16x16_init, bkfir16x16_process	
bkfir32x16_hifi4.o	346		bkfir32x16_alloc, bkfir32x16_init	NatureDSP_Signal_803, NatureDSP_Signal_804, NatureDSP_Signal_805
bkfir32x16_process_hifi4.o	1514		bkfir32x16_process, NatureDSP_Signal_803, NatureDSP_Signal_804, NatureDSP_Signal_805	
bkfir32x32ep_hifi4.o	239		bkfir32x32ep_alloc, bkfir32x32ep_init	
bkfir32x32ep_process_hifi4.o	328		bkfir32x32ep_process	
bkfir32x32_hifi4.o	225		bkfir32x32_alloc, bkfir32x32_init	
bkfir32x32_process_hifi4.o	679		bkfir32x32_process	
bkfira16x16_hifi4.o	1521		bkfira16x16_alloc, bkfira16x16_init, bkfira16x16_process	
bkfira32x16_hifi4.o	363		bkfira32x16_alloc, bkfira32x16_init	
bkfira32x16_process_hifi4.o	759		bkfira32x16_process	
bkfira32x32ep_hifi4.o	359		bkfira32x32ep_alloc, bkfira32x32ep_init	
bkfira32x32ep_process_hifi4.o	705		bkfira32x32ep_process	
bkfira32x32_hifi4.o	359		bkfira32x32_alloc, bkfira32x32_init	
bkfira32x32_process_hifi4.o	554		bkfira32x32_process	
cxfir16x16_hifi4.o	667		cxfir16x16_alloc, cxfir16x16_init, cxfir16x16_process	
cxfir32x16_hifi4.o	228		cxfir32x16_alloc, cxfir32x16_init	
cxfir32x16_process_hifi4.o	447		cxfir32x16_process	
cxfir32x32ep_hifi4.o	267		cxfir32x32ep_alloc, cxfir32x32ep_init	
cxfir32x32ep_process_hifi4.o	307		cxfir32x32ep_process	
cxfir32x32_hifi4.o	267		cxfir32x32_alloc, cxfir32x32_init	
cxfir32x32_process_hifi4.o	316		cxfir32x32_process	
bkfiraf_hifi4.o	158		bkfiraf_alloc, bkfiraf_init	
bkfiraf_process_hifi4.o	684		bkfiraf_process	

Object file	Code size	Data size	Symbols	
			Global	Referenced
bkfirf_hifi4.o	153		bkfirf_alloc, bkfirf_init	
bkfirf_process_hifi4.o	306		bkfirf_process	
cxfirf_hifi4.o	154		cxfirf_alloc, cxfirf_init	
cxfirf_process_hifi4.o	256		cxfirf_process	
firdec16x16_D2_hifi4.o	313		NatureDSP_Signal_400	
firdec16x16_D3_hifi4.o	295		NatureDSP_Signal_401	
firdec16x16_D4_hifi4.o	318		NatureDSP_Signal_402	
firdec16x16_DX_hifi4.o	319		NatureDSP_Signal_403	
firdec16x16_hifi4.o	468		firdec16x16_alloc, firdec16x16_init, firdec16x16_process	NatureDSP_Signal_400, NatureDSP_Signal_401, NatureDSP_Signal_402, NatureDSP_Signal_403
firdec32x16_D2_hifi4.o	383		NatureDSP_Signal_423	
firdec32x16_D3_hifi4.o	455		NatureDSP_Signal_424	
firdec32x16_D4_hifi4.o	613		NatureDSP_Signal_425	
firdec32x16_DX_hifi4.o	317		NatureDSP_Signal_426	
firdec32x16_hifi4.o	465		firdec32x16_alloc, firdec32x16_init, firdec32x16_process	NatureDSP_Signal_423, NatureDSP_Signal_424, NatureDSP_Signal_425, NatureDSP_Signal_426
firdec32x32ep_D2_hifi4.o	360		NatureDSP_Signal_193	
firdec32x32ep_D3_hifi4.o	546		NatureDSP_Signal_194	
firdec32x32ep_D4_hifi4.o	402		NatureDSP_Signal_195	
firdec32x32ep_DX_hifi4.o	408		NatureDSP_Signal_196	
firdec32x32ep_hifi4.o	486		firdec32x32ep_alloc, firdec32x32ep_init, firdec32x32ep_process	NatureDSP_Signal_193, NatureDSP_Signal_194, NatureDSP_Signal_195, NatureDSP_Signal_196
firdec32x32_D2_hifi4.o	279		NatureDSP_Signal_396	
firdec32x32_D3_hifi4.o	498		NatureDSP_Signal_397	
firdec32x32_D4_hifi4.o	451		NatureDSP_Signal_398	
firdec32x32_DX_hifi4.o	328		NatureDSP_Signal_399	
firdec32x32_hifi4.o	454		firdec32x32_alloc, firdec32x32_init, firdec32x32_process	NatureDSP_Signal_396, NatureDSP_Signal_397, NatureDSP_Signal_398, NatureDSP_Signal_399
firdecf_hifi4.o	297	12	firdecf_alloc, firdecf_init, firdecf_process	NatureDSP_Signal_214, NatureDSP_Signal_215, NatureDSP_Signal_216, NatureDSP_Signal_217
fir_decimaf_2x_hifi4.o	315		NatureDSP_Signal_214	
fir_decimaf_3x_hifi4.o	566		NatureDSP_Signal_215	
fir_decimaf_4x_hifi4.o	410		NatureDSP_Signal_216	
fir_decimaf_Dx_hifi4.o	294		NatureDSP_Signal_217	
firinterp16x16_D2_hifi4.o	335		NatureDSP_Signal_392	
firinterp16x16_D3_hifi4.o	525		NatureDSP_Signal_393	
firinterp16x16_D4_hifi4.o	380		NatureDSP_Signal_394	
firinterp16x16_DX_hifi4.o	696		NatureDSP_Signal_395	
firinterp16x16_hifi4.o	498		firinterp16x16_alloc, firinterp16x16_init, firinterp16x16_process	NatureDSP_Signal_392, NatureDSP_Signal_393, NatureDSP_Signal_394, NatureDSP_Signal_395
firinterp32x16_D2_hifi4.o	913		NatureDSP_Signal_427	
firinterp32x16_D3_hifi4.o	1467		NatureDSP_Signal_428	
firinterp32x16_D4_hifi4.o	1060		NatureDSP_Signal_429	
firinterp32x16_DX_hifi4.o	555		NatureDSP_Signal_430	
firinterp32x16_hifi4.o	623		firinterp32x16_alloc, firinterp32x16_init, firinterp32x16_process	NatureDSP_Signal_427, NatureDSP_Signal_428, NatureDSP_Signal_429, NatureDSP_Signal_430
firinterp32x32ep_D2_hifi4.o	540		NatureDSP_Signal_184	
firinterp32x32ep_D3_hifi4.o	454		NatureDSP_Signal_185	
firinterp32x32ep_D4_hifi4.o	495		NatureDSP_Signal_186	
firinterp32x32ep_DX_hifi4.o	485		NatureDSP_Signal_183	
firinterp32x32ep_hifi4.o	484		firinterp32x32ep_alloc, firinterp32x32ep_init, firinterp32x32ep_process	NatureDSP_Signal_183, NatureDSP_Signal_184, NatureDSP_Signal_185, NatureDSP_Signal_186
firinterp32x32_D2_hifi4.o	506		NatureDSP_Signal_388	
firinterp32x32_D3_hifi4.o	462		NatureDSP_Signal_389	
firinterp32x32_D4_hifi4.o	462		NatureDSP_Signal_390	
firinterp32x32_DX_hifi4.o	469		NatureDSP_Signal_391	
firinterp32x32_hifi4.o	484		firinterp32x32_alloc, firinterp32x32_init, firinterp32x32_process	NatureDSP_Signal_388, NatureDSP_Signal_389, NatureDSP_Signal_390, NatureDSP_Signal_391

Object file	Code size	Data size	Symbols	
			Global	Referenced
firinterpf_hifi4.o	443	12	firinterpf_alloc, firinterpf_init, firinterpf_process	NatureDSP_Signal_218, NatureDSP_Signal_219, NatureDSP_Signal_220, NatureDSP_Signal_221
fir_interpf_2x_hifi4.o	304		NatureDSP_Signal_218	
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_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	fir_xcorra32x32ep, NatureDSP_Signal_187
fir_acorra32x32_hifi4.o	178		fir_acorra32x32	fir_xcorra32x32, NatureDSP_Signal_383
fir_blms16x16_hifi4.o	1446		fir_blms16x16	
fir_blms16x32_hifi4.o	1101		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_convol16x16_hifi4.o	675		fir_convol16x16	
fir_convol32x16_hifi4.o	1355		fir_convol32x16	
fir_convol32x32ep_hifi4.o	331		fir_convol32x32ep	
fir_convol32x32_hifi4.o	439		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		fir_lacorra32x32	
fir_lconvola16x16_hifi4.o	238		fir_lconvola16x16	NatureDSP_Signal_384
fir_lconvola32x32_hifi4.o	246		fir_lconvola32x32	NatureDSP_Signal_385
fir_lxcorra16x16_hifi4.o	235		fir_lxcorra16x16	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	278		fir_xcorr32x32ep	
fir_xcorr32x32_hifi4.o	343		fir_xcorr32x32	
cxfir_xcorr32x32_hifi4.o	213		cxfir_xcorr32x32	
cxfir_xcorra32x32_hifi4.o	351		cxfir_xcorra32x32	
fir_xcorra16x16_hifi4.o	285		fir_xcorra16x16	NatureDSP_Signal_382
fir_xcorra32x16_hifi4.o	291		fir_xcorra32x16	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		NatureDSP_Signal_385	
cxfir_xcorraf_hifi4.o	427		cxfir_xcorraf	
cxfir_xcorrf_hifi4.o	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	252		fir_xcorrf	
raw_corrf_hifi4.o	501		NatureDSP_Signal_256	
vec_poly4_32x32_hifi4.o	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_hifi4.o	5169	36	latr16x16_alloc, latr16x16_init, latr16x16_process	
latr32x16_1_proc_hifi4.o	90		NatureDSP_Signal_431	
latr32x16_2_proc_hifi4.o	90		NatureDSP_Signal_432	
latr32x16_3_proc_hifi4.o	174		NatureDSP_Signal_433	
latr32x16_4_proc_hifi4.o	172		NatureDSP_Signal_434	

Object file	Code size	Data size	Symbols	
			Global	Referenced
latr32x16_5_proc_hifi4.o	220		NatureDSP_Signal_435	
latr32x16_6_proc_hifi4.o	218		NatureDSP_Signal_436	
latr32x16_7_proc_hifi4.o	570		NatureDSP_Signal_437	
latr32x16_8_proc_hifi4.o	654		NatureDSP_Signal_438	
latr32x16_hifi4.o	811		latr32x16_alloc, latr32x16_init, latr32x16_process	NatureDSP_Signal_431, NatureDSP_Signal_432, NatureDSP_Signal_433, NatureDSP_Signal_434, NatureDSP_Signal_435, NatureDSP_Signal_436, NatureDSP_Signal_437, NatureDSP_Signal_438, NatureDSP_Signal_439
latr32x16_X_proc_hifi4.o	714		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	236		NatureDSP_Signal_444	
latr32x32_6_proc_hifi4.o	568		NatureDSP_Signal_445	
latr32x32_7_proc_hifi4.o	751		NatureDSP_Signal_446	
latr32x32_8_proc_hifi4.o	321		NatureDSP_Signal_447	
latr32x32_hifi4.o	210	36	latr32x32_alloc, latr32x32_init, latr32x32_process	NatureDSP_Signal_440, NatureDSP_Signal_441, 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	
bqciirf_df1_hifi4.o	191		bqciirf_df1_alloc, bqciirf_df1_groupDelay, bqciirf_df1_init	
bqciirf_df1_process_hifi4.o	1671		bqciirf_df1	
bqriirf_df1_hifi4.o	300		bqriirf_df1_alloc, bqriirf_df1_groupDelay, bqriirf_df1_init	
bqriirf_df1_process_hifi4.o	1660		bqriirf_df1	
bqriirf_df2t_hifi4.o	255		bqriirf_df2t_alloc, bqriirf_df2t_groupDelay, bqriirf_df2t_init	
bqriirf_df2t_process_hifi4.o	1941		bqriirf_df2t	
bqriirf_df2_hifi4.o	266		bqriirf_df2_alloc, bqriirf_df2_groupDelay, bqriirf_df2_init	
bqriirf_df2_process_hifi4.o	1360		bqriirf_df2	
bqciirf_df1_nd_hifi4.o	183		bqciirf_df1_nd_alloc, bqciirf_df1_nd_groupDelay, bqciirf_df1_nd_init	
bqciirf_df1_nd_process_hifi4.o	1735		bqciirf_df1_nd	
bqriirf_df1_nd_hifi4.o	322		bqriirf_df1_nd_alloc, bqriirf_df1_nd_groupDelay, bqriirf_df1_nd_init	
bqriirf_df1_nd_process_hifi4.o	1584		bqriirf_df1_nd	
bqriirf_df2t_nd_hifi4.o	397		bqriirf_df2t_nd_alloc, bqriirf_df2t_nd_groupDelay, bqriirf_df2t_nd_init	
bqriirf_df2t_nd_process_hifi4.o	1724		bqriirf_df2t_nd	
bqriirf_df2_nd_hifi4.o	269		bqriirf_df2_nd_alloc, bqriirf_df2_nd_groupDelay, bqriirf_df2_nd_init	
bqriirf_df2_nd_process_hifi4.o	679		bqriirf_df2_nd	
latrf1_hifi4.o	133		NatureDSP_Signal_224	
latrf2_hifi4.o	298		NatureDSP_Signal_225	
latrf3_hifi4.o	484		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	
latrf_hifi4.o	168	32	latrf_alloc, latrf_init, latrf_process	NatureDSP_Signal_224, NatureDSP_Signal_225, NatureDSP_Signal_226,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_227, NatureDSP_Signal_228, NatureDSP_Signal_229, NatureDSP_Signal_230, NatureDSP_Signal_231, 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	150		scl_atan32x32	NatureDSP_Signal_012
scl_cosine_32x32_hifi4.o	115		scl_cosine32x32	NatureDSP_Signal_009
scl_divide16x16_hifi4.o	247		scl_divide16x16	
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	157		scl_logn_32x32	NatureDSP_Signal_011
scl_recip16x16_hifi4.o	268		scl_recip16x16	
scl_recip32x32_hifi4.o	161		scl_recip32x32	
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	142		scl_sqrt16x16	NatureDSP_Signal_386
scl_sqrt64x32_hifi4.o	152		scl_sqrt64x32	NatureDSP_Signal_010
scl_sqrt_32x32_hifi4.o	123		scl_sqrt32x32	NatureDSP_Signal_010
scl_tanh32x32_hifi4.o	178	20	scl_tanh32x32	
scl_tan_32x32_hifi4.o	299		scl_tan32x32	NatureDSP_Signal_008, NatureDSP_Signal_009
vec_alog10_32x32_hifi4.o	589		vec_antilog10_32x32	NatureDSP_Signal_202
vec_alog2_32x32_hifi4.o	693		vec_antilog2_32x32	NatureDSP_Signal_202
vec_alogn_32x32_hifi4.o	589		vec_antilogn_32x32	NatureDSP_Signal_202
vec_atan_32x32_hifi4.o	841		vec_atan32x32	NatureDSP_Signal_012
vec_cosine_32x32_fast_hifi4.o	429		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_divide32x32	
vec_divide64x32i_hifi4.o	1482		vec_divide64x32i	
vec_log10_32x32_hifi4.o	921	4	vec_log10_32x32	NatureDSP_Signal_011
vec_log2_32x32_hifi4.o	789		vec_log2_32x32	NatureDSP_Signal_011
vec_logn_32x32_hifi4.o	921	4	vec_logn_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	1345		vec_rsqrt32x32	
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	1269		vec_sqrt16x16	NatureDSP_Signal_386
vec_sqrt64x32_hifi4.o	954		vec_sqrt64x32	NatureDSP_Signal_010
vec_sqrt_32x32_fast_hifi4.o	734		vec_sqrt32x32_fast	NatureDSP_Signal_010
vec_sqrt_32x32_hifi4.o	996		vec_sqrt32x32	NatureDSP_Signal_010
vec_tanh32x32_hifi4.o	831	20	vec_tanh32x32	
vec_tan_32x32_hifi4.o	1256		vec_tan32x32	NatureDSP_Signal_008, NatureDSP_Signal_009
scl_antilog10f_hifi4.o	367		scl_antilog10f	_reent_ptr, NatureDSP_Signal_206, NatureDSP_Signal_207, NatureDSP_Signal_212, NatureDSP_Signal_241, NatureDSP_Signal_244
scl_antilog2f_hifi4.o	347		scl_antilog2f	_reent_ptr, NatureDSP_Signal_208, NatureDSP_Signal_212, 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
scl_atan2f_hifi4.o	341		scl_atan2f	_reent_ptr,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246, 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
scl_cosinef_hifi4.o	298	24	scl_cosinef	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_268
scl_float2int_hifi4.o	31		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
scl_log2f_hifi4.o	549		scl_log2f	_reent_ptr, NatureDSP_Signal_234, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
scl_lognf_hifi4.o	558		scl_lognf	_reent_ptr, NatureDSP_Signal_233, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258, NatureDSP_Signal_260
scl_sinef_hifi4.o	299	24	scl_sinef	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_268
scl_tanf_hifi4.o	367	24	scl_tanf	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_254, NatureDSP_Signal_255, NatureDSP_Signal_268
scl_tanhf_hifi4.o	387		scl_tanhf	_reent_ptr, NatureDSP_Signal_479, NatureDSP_Signal_480, NatureDSP_Signal_485, NatureDSP_Signal_512
scl_reluf_hifi4.o	28		scl_reluf	
scl_relu32x32_hifi4.o	17		scl_relu32x32	
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	
vec_alog10f_hifi4.o	796		vec_antilog10f	NatureDSP_Signal_206, NatureDSP_Signal_207, NatureDSP_Signal_212
vec_alog2f_hifi4.o	829		vec_antilog2f	NatureDSP_Signal_208, NatureDSP_Signal_212, NatureDSP_Signal_241
vec_alognf_hifi4.o	831		vec_antilognf	NatureDSP_Signal_212, NatureDSP_Signal_213, NatureDSP_Signal_241
vec_atan2f_hifi4.o	2233		vec_atan2f	NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246, NatureDSP_Signal_249

Object file	Code size	Data size	Symbols	
			Global	Referenced
vec_atanf_hifi4.o	1818		vec_atanf	NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_244, NatureDSP_Signal_246
vec_cosinef_hifi4.o	1767	24	vec_cosinef	NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_268
vec_float2int_hifi4.o	291		vec_float2int	
vec_int2float_hifi4.o	331		vec_int2float	
vec_log10f_hifi4.o	1646	16	vec_log10f	NatureDSP_Signal_203, NatureDSP_Signal_205, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
vec_log2f_hifi4.o	1596	16	vec_log2f	NatureDSP_Signal_234, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
vec_lognf_hifi4.o	1587	16	vec_lognf	NatureDSP_Signal_233, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258, NatureDSP_Signal_260
vec_sinef_hifi4.o	1787	24	vec_sinef	NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_268
vec_tanf_hifi4.o	2416	24	vec_tanf	NatureDSP_Signal_241, NatureDSP_Signal_254, NatureDSP_Signal_255, NatureDSP_Signal_268
vec_tanhf_hifi4.o	2492		vec_tanhf	NatureDSP_Signal_479, NatureDSP_Signal_480, NatureDSP_Signal_485, NatureDSP_Signal_512, scl_tanhf
vec_reluf_hifi4.o	180		vec_reluf	
vec_relu32x32_hifi4.o	195		vec_relu32x32	
vec_softmaxf_hifi4.o	838		vec_softmaxf	NatureDSP_Signal_243, vec_antilognf
vec_recip64x64_hifi4.o	1855		vec_recip64x64	
vec_divide64x64_hifi4.o	2618		vec_divide64x64	
vec_sqrt32x16_hifi4.o	975		vec_sqrt32x16	NatureDSP_Signal_386, scl_sqrt32x16
vec_sigmoidf_hifi4.o	1967	36	vec_sigmoidf	scl_sigmoidf
vec_pow_32x32_hifi4.o	3364		vec_pow_32x32	NatureDSP_Signal_450, NatureDSP_Signal_451, NatureDSP_Signal_452
scl_pow_32x32_hifi4.o	570		NatureDSP_Signal_452	NatureDSP_Signal_450, NatureDSP_Signal_451
vec_powf_hifi4.o	4426	72	vec_powf	NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_479, NatureDSP_Signal_484
scl_powf_hifi4.o	1299	36	scl_powf	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_479, NatureDSP_Signal_484
mtx_inv2x2f_hifi4.o	99		mtx_inv2x2f, mtx_inv2x2f_getScratchSize	
mtx_inv3x3f_hifi4.o	394		mtx_inv3x3f, mtx_inv3x3f_getScratchSize	
mtx_inv4x4f_hifi4.o	592		mtx_inv4x4f, mtx_inv4x4f_getScratchSize	
mtx_inv6x6f_hifi4.o	810		mtx_inv6x6f, mtx_inv6x6f_getScratchSize	
mtx_inv8x8f_hifi4.o	917		mtx_inv8x8f, mtx_inv8x8f_getScratchSize	
mtx_inv10x10f_hifi4.o	1076		mtx_inv10x10f, mtx_inv10x10f_getScratchSize	
cmtx_gjelim10x10_32x32_hifi4.o	3017		cmtx_gjelim10x10_32x32, cmtx_gjelim10x10_32x32_getScratchSize	
cmtx_gjelim2x2_32x32_hifi4.o	1040		cmtx_gjelim2x2_32x32, cmtx_gjelim2x2_32x32_getScratchSize	
cmtx_gjelim3x3_32x32_hifi4.o	1232		cmtx_gjelim3x3_32x32,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			cmtx_gjelim3x3_32x32_getScratchSize	
cmtx_gjelim4x4_32x32_hifi4.o	1513		cmtx_gjelim4x4_32x32, cmtx_gjelim4x4_32x32_getScratchSize	
cmtx_gjelim6x6_32x32_hifi4.o	1997		cmtx_gjelim6x6_32x32, cmtx_gjelim6x6_32x32_getScratchSize	
cmtx_gjelim8x8_32x32_hifi4.o	2678		cmtx_gjelim8x8_32x32, cmtx_gjelim8x8_32x32_getScratchSize	
cmtx_inv10x10_32x32_hifi4.o	1727		cmtx_inv10x10_32x32, cmtx_inv10x10_32x32_getScratchSize	
cmtx_inv2x2_32x32_hifi4.o	1215		cmtx_inv2x2_32x32, cmtx_inv2x2_32x32_getScratchSize	
cmtx_inv3x3_32x32_hifi4.o	1309		cmtx_inv3x3_32x32, cmtx_inv3x3_32x32_getScratchSize	
cmtx_inv4x4_32x32_hifi4.o	1511		cmtx_inv4x4_32x32, cmtx_inv4x4_32x32_getScratchSize	
cmtx_inv6x6_32x32_hifi4.o	1449		cmtx_inv6x6_32x32, cmtx_inv6x6_32x32_getScratchSize	
cmtx_inv8x8_32x32_hifi4.o	1596		cmtx_inv8x8_32x32, cmtx_inv8x8_32x32_getScratchSize	
mtx_gjelim10x10_32x32_hifi4.o	1687		mtx_gjelim10x10_32x32, mtx_gjelim10x10_32x32_getScratchSize	
mtx_gjelim2x2_32x32_hifi4.o	238		mtx_gjelim2x2_32x32, mtx_gjelim2x2_32x32_getScratchSize	
mtx_gjelim3x3_32x32_hifi4.o	1106		mtx_gjelim3x3_32x32, mtx_gjelim3x3_32x32_getScratchSize	
mtx_gjelim4x4_32x32_hifi4.o	1214		mtx_gjelim4x4_32x32, mtx_gjelim4x4_32x32_getScratchSize	
mtx_gjelim6x6_32x32_hifi4.o	1493		mtx_gjelim6x6_32x32, mtx_gjelim6x6_32x32_getScratchSize	
mtx_gjelim8x8_32x32_hifi4.o	1502		mtx_gjelim8x8_32x32, mtx_gjelim8x8_32x32_getScratchSize	
mtx_inv10x10_32x32_hifi4.o	1450		mtx_inv10x10_32x32, mtx_inv10x10_32x32_getScratchSize	
mtx_inv2x2_32x32_hifi4.o	248		mtx_inv2x2_32x32, mtx_inv2x2_32x32_getScratchSize	
mtx_inv3x3_32x32_hifi4.o	1201		mtx_inv3x3_32x32, mtx_inv3x3_32x32_getScratchSize	
mtx_inv4x4_32x32_hifi4.o	1291		mtx_inv4x4_32x32, mtx_inv4x4_32x32_getScratchSize	
mtx_inv6x6_32x32_hifi4.o	1247		mtx_inv6x6_32x32, mtx_inv6x6_32x32_getScratchSize	
mtx_inv8x8_32x32_hifi4.o	1369		mtx_inv8x8_32x32, 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	2632		mtx_mpy32x32, mtx_mpy32x32_getScratchSize	
mtx_mpy8x16_fast_hifi4.o	476		mtx_mpy8x16_fast, mtx_mpy8x16_fast_getScratchSize	
mtx_mpy8x16_hifi4.o	10647		mtx_mpy8x16, mtx_mpy8x16_getScratchSize	
mtx_mpy8x8_fast_hifi4.o	637		mtx_mpy8x8_fast, mtx_mpy8x8_fast_getScratchSize	
mtx_mpy8x8_hifi4.o	10732		mtx_mpy8x8, mtx_mpy8x8_getScratchSize	
mtx_mpyt16x16_fast_hifi4.o	617		mtx_mpyt16x16_fast, mtx_mpyt16x16_fast_getScratchSize	
mtx_mpyt16x16_hifi4.o	1813		mtx_mpyt16x16, mtx_mpyt16x16_getScratchSize	
mtx_mpyt32x32_fast_hifi4.o	490		mtx_mpyt32x32_fast, mtx_mpyt32x32_fast_getScratchSize	
mtx_mpyt32x32_hifi4.o	1144		mtx_mpyt32x32, mtx_mpyt32x32_getScratchSize	
mtx_mpyt8x16_fast_hifi4.o	628		mtx_mpyt8x16_fast, mtx_mpyt8x16_fast_getScratchSize	
mtx_mpyt8x16_hifi4.o	9079		mtx_mpyt8x16, mtx_mpyt8x16_getScratchSize	
mtx_mpyt8x8_fast_hifi4.o	525		mtx_mpyt8x8_fast, mtx_mpyt8x8_fast_getScratchSize	
mtx_mpyt8x8_hifi4.o	11813		mtx_mpyt8x8, mtx_mpyt8x8_getScratchSize	
mtx_transpose16x16_fast_hifi4.o	514		mtx_transpose16x16_fast	
mtx_transpose16x16_hifi4.o	791		mtx_transpose16x16	
mtx_transpose32x32_fast_hifi4.o	150		mtx_transpose32x32_fast	
mtx_transpose32x32_hifi4.o	244		mtx_transpose32x32	
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

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			Global	Referenced
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	528		mtx_vecmpy32x32	
mtx_vecmpy8x16_fast_hifi4.o	1127		mtx_vecmpy8x16_fast	
mtx_vecmpy8x16_hifi4.o	1261		mtx_vecmpy8x16	
mtx_vecmpy8x8_fast_hifi4.o	1228		mtx_vecmpy8x8_fast	
mtx_vecmpy8x8_hifi4.o	2520		mtx_vecmpy8x8	
mtx_mpyf_fast_hifi4.o	372		mtx_mpyf_fast, mtx_mpyf_fast_getScratchSize	
mtx_mpyf_hifi4.o	1288		mtx_mpyf, mtx_mpyf_getScratchSize	
mtx_mpytf_fast_hifi4.o	524		mtx_mpytf_fast, mtx_mpytf_fast_getScratchSize	
mtx_mpytf_hifi4.o	2725		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		vec_add16x16_fast	
vec_add16x16_hifi4.o	514		vec_add16x16	
vec_add32x32_fast_hifi4.o	118		vec_add32x32_fast	
vec_add32x32_hifi4.o	151		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	164		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	135		vec_dot32x32_fast	
vec_dot32x32_hifi4.o	344		vec_dot32x32	
vec_dot64x32_fast_hifi4.o	200		vec_dot64x32_fast	
vec_dot64x32_hifi4.o	314		vec_dot64x32	
vec_dot64x64i_fast_hifi4.o	125		vec_dot64x64i_fast	
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	284		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	284		vec_min16x16	
vec_min_32x32_fast_hifi4.o	167		vec_min32x32_fast	
vec_min_32x32_hifi4.o	206		vec_min32x32	
vec_power16x16_fast_hifi4.o	124		vec_power16x16_fast	
vec_power16x16_hifi4.o	185		vec_power16x16	
vec_power32x32_fast_hifi4.o	104		vec_power32x32_fast	
vec_power32x32_hifi4.o	178		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		vec_shift16x16_fast	
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		vec_dotf	
vec_maxf_hifi4.o	153	4	vec_maxf	
vec_minf_hifi4.o	165	4	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	
expf_tbl.o		80	NatureDSP_Signal_211, NatureDSP_Signal_212, NatureDSP_Signal_213, NatureDSP_Signal_485, NatureDSP_Signal_582	

Object file	Code size	Data size	Symbols	
			Global	Referenced
inff_tbl.o		16	NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_245, NatureDSP_Signal_923	
inv2pif_tbl.o		16	NatureDSP_Signal_222, NatureDSP_Signal_223, NatureDSP_Signal_268	
log10f_tbl.o		44	NatureDSP_Signal_203, NatureDSP_Signal_204, NatureDSP_Signal_205	
log2f_tbl.o		40	NatureDSP_Signal_234	
lognf_tbl.o		36	NatureDSP_Signal_233, NatureDSP_Signal_260	
nan_tbl.o		32	NatureDSP_Signal_235, NatureDSP_Signal_236, NatureDSP_Signal_237, NatureDSP_Signal_238	
nanf_tbl.o		16	NatureDSP_Signal_239, NatureDSP_Signal_240, NatureDSP_Signal_241, NatureDSP_Signal_242	
pif_tbl.o		16	NatureDSP_Signal_246, NatureDSP_Signal_247, NatureDSP_Signal_248, NatureDSP_Signal_249	
polyrsqrtq23_tbl.o		20	NatureDSP_Signal_386	
scl_atan_table.o		524	NatureDSP_Signal_012	
scl_atan_table16.o		136	NatureDSP_Signal_013	
scl_sine_table16.o		1028	NatureDSP_Signal_257	
scl_sine_table32.o		2056	NatureDSP_Signal_009	
scl_sqrt_table.o		1024	NatureDSP_Signal_010	
sinf_tbl.o		52	NatureDSP_Signal_250, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253	
sqrt2f_tbl.o		8	NatureDSP_Signal_258, NatureDSP_Signal_259	
tanf_tbl.o		36	NatureDSP_Signal_254, NatureDSP_Signal_255	
tanhf_tbl.o		20	NatureDSP_Signal_480, NatureDSP_Signal_512	
pow2f_tbl.o		112	NatureDSP_Signal_479, NatureDSP_Signal_481, NatureDSP_Signal_484	
vec_alog_table.o		20	NatureDSP_Signal_202	
vec_log_table.o		1024	NatureDSP_Signal_011	
vec_recip_table.o		516	NatureDSP_Signal_008	
vec_pow_32x32_table.o		156	NatureDSP_Signal_450, NatureDSP_Signal_451	
logmel32x32_hifi4.o	2618	68	logmel32x32_alloc, logmel32x32_init	memset, NatureDSP_Signal_806, NatureDSP_Signal_807, NatureDSP_Signal_809, vec_recip32x32
logmelf_hifi4.o	1690		logmelf_alloc, logmelf_init	memset, NatureDSP_Signal_806, NatureDSP_Signal_807, scl_antilog10f, scl_antilog2f, scl_int2float, scl_log10f, scl_log2f, vec_recip32x32
mfcc32x32_hifi4.o	789		mfcc32x32_alloc, mfcc32x32_init	logmel32x32_alloc, logmel32x32_init, memset, mtx_vecmpy32x32, mtx_vecmpy32x32_fast, NatureDSP_Signal_810, NatureDSP_Signal_811
mfccf_hifi4.o	734		mfccf_alloc, mfccf_init	logmelf_alloc, logmelf_init, memset, mtx_vecmpyf, mtx_vecmpyf_fast, NatureDSP_Signal_812, NatureDSP_Signal_813
dct_16_32.o		168	dct2_16_32	
dct_16_64.o		312	dct2_16_64	
dct_32_32.o		320	dct2_32_32	
dct_32_64.o		792	dct2_32_64	
dct4_16_128.o		568	dct4_16_128, mdct_16_128	
dct4_16_256.o		1112	dct4_16_256, mdct_16_256	
dct4_16_32.o		160	dct4_16_32, mdct_16_32	
dct4_16_512.o		2200	dct4_16_512, mdct_16_512	
dct4_16_64.o		296	dct4_16_64, mdct_16_64	
dct4_32_128.o		1108	dct4_32_128, mdct_32_128	
dct4_32_256.o		2196	dct4_32_256, mdct_32_256	
dct4_32_32.o		292	dct4_32_32, mdct_32_32	
dct4_32_512.o		4372	dct4_32_512, mdct_32_512	
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_1024_tbl.o		4224	cfft16_1024, cifft16_1024, NatureDSP_Signal_761, NatureDSP_Signal_786	
fft_cplx_twd16_128_tbl.o		592	cfft16_128, cifft16_128,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_760, NatureDSP_Signal_785	
fft_cplx_twd16_144_tbl.o		688	cinfft16_144, cnfft16_144, NatureDSP_Signal_944, NatureDSP_Signal_953	
fft_cplx_twd16_16_tbl.o		144	cfft16_16, cifft16_16, NatureDSP_Signal_759, NatureDSP_Signal_784	
fft_cplx_twd16_160_tbl.o		752	cinfft16_160, cnfft16_160, NatureDSP_Signal_758, NatureDSP_Signal_783	
fft_cplx_twd16_176_tbl.o		772	cinfft16_176, cnfft16_176, NatureDSP_Signal_945, NatureDSP_Signal_954	
fft_cplx_twd16_192_tbl.o		864	cinfft16_192, cnfft16_192, NatureDSP_Signal_757, NatureDSP_Signal_782	
fft_cplx_twd16_2048_tbl.o		8304	cfft16_2048, cifft16_2048, NatureDSP_Signal_756, NatureDSP_Signal_781	
fft_cplx_twd16_240_tbl.o		1056	cinfft16_240, cnfft16_240, NatureDSP_Signal_755, NatureDSP_Signal_780	
fft_cplx_twd16_256_tbl.o		1136	cfft16_256, cifft16_256, NatureDSP_Signal_754, NatureDSP_Signal_779	
fft_cplx_twd16_288_tbl.o		1248	cinfft16_288, cnfft16_288, NatureDSP_Signal_946, NatureDSP_Signal_955	
fft_cplx_twd16_32_tbl.o		192	cfft16_32, cifft16_32, NatureDSP_Signal_753, NatureDSP_Signal_778	
fft_cplx_twd16_320_tbl.o		1376	cinfft16_320, cnfft16_320, NatureDSP_Signal_947, NatureDSP_Signal_956	
fft_cplx_twd16_352_tbl.o		1492	cinfft16_352, cnfft16_352, NatureDSP_Signal_948, NatureDSP_Signal_957	
fft_cplx_twd16_384_tbl.o		1664	cinfft16_384, cnfft16_384	
fft_cplx_twd16_4096_tbl.o		16528	cfft16_4096, cifft16_4096, NatureDSP_Signal_752, NatureDSP_Signal_777	
fft_cplx_twd16_48_tbl.o		288	cinfft16_48, cnfft16_48, NatureDSP_Signal_949, NatureDSP_Signal_958	
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_576_tbl.o		2432	cinfft16_576, cnfft16_576, NatureDSP_Signal_950, NatureDSP_Signal_959	
fft_cplx_twd16_64_tbl.o		352	cfft16_64, cifft16_64, NatureDSP_Signal_750, NatureDSP_Signal_775	
fft_cplx_twd16_640_tbl.o		2656	cinfft16_640, cnfft16_640, NatureDSP_Signal_951, NatureDSP_Signal_960	
fft_cplx_twd16_96_tbl.o		464	cinfft16_96, cnfft16_96, NatureDSP_Signal_952, NatureDSP_Signal_961	
fft_cplx_twd32_100_tbl.o		896	cinfft32_100, cnfft32_100	NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_cplx_twd32_1024_tbl.o		6328	cfft32_1024, cifft32_1024, NatureDSP_Signal_279, NatureDSP_Signal_312	NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_419, NatureDSP_Signal_421, NatureDSP_Signal_422
fft_cplx_twd32_108_tbl.o		1000	cinfft32_108, cnfft32_108, NatureDSP_Signal_289, NatureDSP_Signal_322	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_cplx_twd32_12_tbl.o		176	cinfft32_12, cnfft32_12, NatureDSP_Signal_282, NatureDSP_Signal_315	NatureDSP_Signal_345, NatureDSP_Signal_349, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_369, NatureDSP_Signal_377
fft_cplx_twd32_120_tbl.o		1080	cinfft32_120, cnfft32_120, NatureDSP_Signal_290, NatureDSP_Signal_323	NatureDSP_Signal_342, NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_cplx_twd32_128_tbl.o		920	cfft32_128, cifft32_128, NatureDSP_Signal_276, NatureDSP_Signal_309	NatureDSP_Signal_341, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_419, NatureDSP_Signal_421
fft_cplx_twd32_144_tbl.o		1288	cinfft32_144, cnfft32_144, NatureDSP_Signal_291, NatureDSP_Signal_324	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_16_tbl.o		208	cfft32_16, cifft32_16, NatureDSP_Signal_273, NatureDSP_Signal_306	NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379
fft_cplx_twd32_160_tbl.o		1352	cinfft32_160, cnfft32_160, NatureDSP_Signal_769, NatureDSP_Signal_794	NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_415
fft_cplx_twd32_180_tbl.o		1560	cinfft32_180, cnfft32_180, NatureDSP_Signal_292, NatureDSP_Signal_325	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_cplx_twd32_192_tbl.o		1664	cinfft32_192, cnfft32_192, NatureDSP_Signal_293, NatureDSP_Signal_326	NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_349, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_367, NatureDSP_Signal_369, NatureDSP_Signal_377, NatureDSP_Signal_417, NatureDSP_Signal_420
fft_cplx_twd32_200_tbl.o		1720	cinfft32_200, cnfft32_200	NatureDSP_Signal_342, NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_cplx_twd32_2048_tbl.o		12488	cfft32_2048, cifft32_2048, NatureDSP_Signal_280, NatureDSP_Signal_313	NatureDSP_Signal_341, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_419, NatureDSP_Signal_421
fft_cplx_twd32_216_tbl.o		1896	cinfft32_216, cnfft32_216, NatureDSP_Signal_294, NatureDSP_Signal_327	NatureDSP_Signal_341, NatureDSP_Signal_344,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_363, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_cplx_twd32_24_tbl.o		304	cinfft32_24, cnfft32_24, NatureDSP_Signal_283, NatureDSP_Signal_316	NatureDSP_Signal_341, NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_373, NatureDSP_Signal_377
fft_cplx_twd32_240_tbl.o		2040	cinfft32_240, cnfft32_240, NatureDSP_Signal_295, NatureDSP_Signal_328	NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_367, NatureDSP_Signal_372, NatureDSP_Signal_377, NatureDSP_Signal_417, NatureDSP_Signal_420
fft_cplx_twd32_256_tbl.o		1696	cfft32_256, cifft32_256, NatureDSP_Signal_277, NatureDSP_Signal_310	NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_419, NatureDSP_Signal_421, NatureDSP_Signal_422
fft_cplx_twd32_288_tbl.o		2464	cinfft32_288, cnfft32_288, NatureDSP_Signal_296, NatureDSP_Signal_329	NatureDSP_Signal_342, NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_300_tbl.o		2520	cinfft32_300, cnfft32_300, NatureDSP_Signal_297, NatureDSP_Signal_330	NatureDSP_Signal_345, NatureDSP_Signal_347, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_367, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_cplx_twd32_32_tbl.o		320	cfft32_32, cifft32_32, NatureDSP_Signal_274, NatureDSP_Signal_307	NatureDSP_Signal_341, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_419
fft_cplx_twd32_320_tbl.o		2688	cinfft32_320, cnfft32_320	NatureDSP_Signal_347, NatureDSP_Signal_349, NatureDSP_Signal_351, NatureDSP_Signal_360, NatureDSP_Signal_367, NatureDSP_Signal_369, NatureDSP_Signal_371, NatureDSP_Signal_381, NatureDSP_Signal_417, NatureDSP_Signal_420
fft_cplx_twd32_324_tbl.o		2752	cinfft32_324, cnfft32_324, NatureDSP_Signal_298, NatureDSP_Signal_331	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_368, NatureDSP_Signal_379
fft_cplx_twd32_36_tbl.o		400	cinfft32_36, cnfft32_36, NatureDSP_Signal_284, NatureDSP_Signal_317	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_cplx_twd32_360_tbl.o		3024	cinfft32_360, cnfft32_360, NatureDSP_Signal_299, NatureDSP_Signal_332	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_372, NatureDSP_Signal_375, NatureDSP_Signal_417, NatureDSP_Signal_420
fft_cplx_twd32_384_tbl.o		3168	cinfft32_384, cnfft32_384	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, NatureDSP_Signal_421
fft_cplx_twd32_400_tbl.o		3320	cinfft32_400, cnfft32_400	NatureDSP_Signal_348, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_4096_tbl.o		24784	cfft32_4096, cifft32_4096, NatureDSP_Signal_281, NatureDSP_Signal_314	NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_419, NatureDSP_Signal_421, NatureDSP_Signal_422
fft_cplx_twd32_432_tbl.o		3616	cinfft32_432, cnfft32_432, NatureDSP_Signal_300, NatureDSP_Signal_333	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_48_tbl.o		496	cinfft32_48, cnfft32_48, NatureDSP_Signal_285, NatureDSP_Signal_318	NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_480_tbl.o		3984	cinfft32_480, cnfft32_480, NatureDSP_Signal_301, NatureDSP_Signal_334	NatureDSP_Signal_342, NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_512_tbl.o		3248	cfft32_512, cifft32_512, NatureDSP_Signal_278, NatureDSP_Signal_311	NatureDSP_Signal_341, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_419, NatureDSP_Signal_421
fft_cplx_twd32_540_tbl.o		4464	cinfft32_540, cnfft32_540, NatureDSP_Signal_302, NatureDSP_Signal_335	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_cplx_twd32_576_tbl.o		4768	cinfft32_576, cnfft32_576, NatureDSP_Signal_303, NatureDSP_Signal_336	NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_60_tbl.o		576	cinfft32_60, cnfft32_60, NatureDSP_Signal_286, NatureDSP_Signal_319	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379
fft_cplx_twd32_600_tbl.o		4896	cinfft32_600, cnfft32_600	NatureDSP_Signal_345, NatureDSP_Signal_350, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_370, NatureDSP_Signal_373, NatureDSP_Signal_377, NatureDSP_Signal_415
fft_cplx_twd32_64_tbl.o		520	cfft32_64, cifft32_64, NatureDSP_Signal_275, NatureDSP_Signal_308	NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_379, NatureDSP_Signal_419, NatureDSP_Signal_422
fft_cplx_twd32_72_tbl.o		720	cinfft32_72, cnfft32_72, NatureDSP_Signal_287, NatureDSP_Signal_320	NatureDSP_Signal_341, NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_363, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_379
fft_cplx_twd32_768_tbl.o		6304	cinfft32_768, cnfft32_768, NatureDSP_Signal_304, NatureDSP_Signal_337	NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_80_tbl.o		736	cinfft32_80, cnfft32_80, NatureDSP_Signal_762, NatureDSP_Signal_787	NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_96_tbl.o		904	cinfft32_96, cnfft32_96,	NatureDSP_Signal_342,

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_288, NatureDSP_Signal_321	NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32_960_tbl.o		7824	cinfft32_960, cnfft32_960, NatureDSP_Signal_305, NatureDSP_Signal_338	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_cplx_twd32x16_160_tbl.o		744	cinfft32x16_160, cnfft32x16_160, NatureDSP_Signal_774, NatureDSP_Signal_799	
fft_cplx_twd32x16_192_tbl.o		912	cinfft32x16_192, cnfft32x16_192, NatureDSP_Signal_773, NatureDSP_Signal_798	
fft_cplx_twd32x16_240_tbl.o		1104	cinfft32x16_240, cnfft32x16_240, NatureDSP_Signal_772, NatureDSP_Signal_797	
fft_cplx_twd32x16_320_tbl.o		1424	cinfft32x16_320, cnfft32x16_320	
fft_cplx_twd32x16_384_tbl.o		1664	cinfft32x16_384, cnfft32x16_384	
fft_cplx_twd32x16_480_tbl.o		2048	cinfft32x16_480, cnfft32x16_480	
fft_real_twd16_1024_tbl.o		1048	rfft16_1024, rifft16_1024	NatureDSP_Signal_751, NatureDSP_Signal_776
fft_real_twd16_128_tbl.o		152	rfft16_128, rifft16_128	NatureDSP_Signal_750, NatureDSP_Signal_775
fft_real_twd16_144_tbl.o		560	rinfft16_144, rnfft16_144	
fft_real_twd16_160_tbl.o		576	rinfft16_160, rnfft16_160	
fft_real_twd16_176_tbl.o		612	rinfft16_176, rnfft16_176	
fft_real_twd16_192_tbl.o		704	rinfft16_192, rnfft16_192	
fft_real_twd16_2048_tbl.o		2072	rfft16_2048, rifft16_2048	NatureDSP_Signal_761, NatureDSP_Signal_786
fft_real_twd16_240_tbl.o		848	rinfft16_240, rnfft16_240	
fft_real_twd16_256_tbl.o		280	rfft16_256, rifft16_256	NatureDSP_Signal_760, NatureDSP_Signal_785
fft_real_twd16_288_tbl.o		312	rinfft16_288, rnfft16_288	NatureDSP_Signal_944, NatureDSP_Signal_953
fft_real_twd16_32_tbl.o		56	rfft16_32, rifft16_32	NatureDSP_Signal_759, NatureDSP_Signal_784
fft_real_twd16_320_tbl.o		344	rinfft16_320, rnfft16_320	NatureDSP_Signal_758, NatureDSP_Signal_783
fft_real_twd16_352_tbl.o		376	rinfft16_352, rnfft16_352	NatureDSP_Signal_945, NatureDSP_Signal_954
fft_real_twd16_384_tbl.o		408	rinfft16_384, rnfft16_384	NatureDSP_Signal_757, NatureDSP_Signal_782
fft_real_twd16_4096_tbl.o		4120	rfft16_4096, rifft16_4096	NatureDSP_Signal_756, NatureDSP_Signal_781
fft_real_twd16_480_tbl.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_576_tbl.o		600	rinfft16_576, rnfft16_576	NatureDSP_Signal_946, NatureDSP_Signal_955
fft_real_twd16_64_tbl.o		88	rfft16_64, rifft16_64	NatureDSP_Signal_753, NatureDSP_Signal_778
fft_real_twd16_640_tbl.o		664	rinfft16_640, rnfft16_640	NatureDSP_Signal_947, NatureDSP_Signal_956
fft_real_twd16_8192_tbl.o		8216	rfft16_8192, rifft16_8192	NatureDSP_Signal_752, NatureDSP_Signal_777
fft_real_twd16_96_tbl.o		120	rinfft16_96, rnfft16_96	NatureDSP_Signal_949, NatureDSP_Signal_958
fft_real_twd32_1024_tbl.o		2072	rfft32_1024, rifft32_1024	NatureDSP_Signal_278, NatureDSP_Signal_311
fft_real_twd32_108_tbl.o		800	rinfft32_108, rnfft32_108	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_375

Object file	Code size	Data size	Symbols	
			Global	Referenced
fft_real_twd32_1152_tbl.o		2328	rinfft32_1152, rnfft32_1152	NatureDSP_Signal_303, NatureDSP_Signal_336
fft_real_twd32_12_tbl.o		184	rinfft32_12, rnfft32_12	NatureDSP_Signal_341, NatureDSP_Signal_345, NatureDSP_Signal_356, NatureDSP_Signal_363, NatureDSP_Signal_365, NatureDSP_Signal_377
fft_real_twd32_120_tbl.o		264	rinfft32_120, rnfft32_120	NatureDSP_Signal_286, NatureDSP_Signal_319
fft_real_twd32_128_tbl.o		280	rfft32_128, rifft32_128	NatureDSP_Signal_275, NatureDSP_Signal_308
fft_real_twd32_144_tbl.o		312	rinfft32_144, rnfft32_144	NatureDSP_Signal_287, NatureDSP_Signal_320
fft_real_twd32_1440_tbl.o		8800	rinfft32_1440, rnfft32_1440	NatureDSP_Signal_344, NatureDSP_Signal_348, NatureDSP_Signal_352, NatureDSP_Signal_358, NatureDSP_Signal_364, NatureDSP_Signal_368, NatureDSP_Signal_372, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_real_twd32_1536_tbl.o		3096	rinfft32_1536, rnfft32_1536	NatureDSP_Signal_304, NatureDSP_Signal_337
fft_real_twd32_160_tbl.o		344	rinfft32_160, rnfft32_160	NatureDSP_Signal_762, NatureDSP_Signal_787
fft_real_twd32_180_tbl.o		1216	rinfft32_180, rnfft32_180	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd32_192_tbl.o		408	rinfft32_192, rnfft32_192	NatureDSP_Signal_288, NatureDSP_Signal_321
fft_real_twd32_1920_tbl.o		3864	rinfft32_1920, rnfft32_1920	NatureDSP_Signal_305, NatureDSP_Signal_338
fft_real_twd32_2048_tbl.o		4120	rfft32_2048, rifft32_2048	NatureDSP_Signal_279, NatureDSP_Signal_312
fft_real_twd32_216_tbl.o		456	rinfft32_216, rnfft32_216	NatureDSP_Signal_289, NatureDSP_Signal_322
fft_real_twd32_24_tbl.o		72	rinfft32_24, rnfft32_24	NatureDSP_Signal_282, NatureDSP_Signal_315
fft_real_twd32_240_tbl.o		504	rinfft32_240, rnfft32_240	NatureDSP_Signal_290, NatureDSP_Signal_323
fft_real_twd32_256_tbl.o		536	rfft32_256, rifft32_256	NatureDSP_Signal_276, NatureDSP_Signal_309
fft_real_twd32_288_tbl.o		600	rinfft32_288, rnfft32_288	NatureDSP_Signal_291, NatureDSP_Signal_324
fft_real_twd32_30_tbl.o		272	rinfft32_30, rnfft32_30	NatureDSP_Signal_345, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_365, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_real_twd32_300_tbl.o		1936	rinfft32_300, rnfft32_300	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_370, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd32_32_tbl.o		88	rfft32_32, rifft32_32	NatureDSP_Signal_273, NatureDSP_Signal_306
fft_real_twd32_320_tbl.o		664	rinfft32_320, rnfft32_320	NatureDSP_Signal_769, NatureDSP_Signal_794
fft_real_twd32_324_tbl.o		2120	rinfft32_324, rnfft32_324	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_354, NatureDSP_Signal_362,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_364, NatureDSP_Signal_366, NatureDSP_Signal_375
fft_real_twd32_36_tbl.o		344	rinfft32_36, rnfft32_36	NatureDSP_Signal_342, NatureDSP_Signal_345, NatureDSP_Signal_346, NatureDSP_Signal_356, NatureDSP_Signal_361, NatureDSP_Signal_365, NatureDSP_Signal_366, NatureDSP_Signal_377
fft_real_twd32_360_tbl.o		744	rinfft32_360, rnfft32_360	NatureDSP_Signal_292, NatureDSP_Signal_325
fft_real_twd32_384_tbl.o		792	rinfft32_384, rnfft32_384	NatureDSP_Signal_293, NatureDSP_Signal_326
fft_real_twd32_4096_tbl.o		8216	rfft32_4096, rifft32_4096	NatureDSP_Signal_280, NatureDSP_Signal_313
fft_real_twd32_432_tbl.o		888	rinfft32_432, rnfft32_432	NatureDSP_Signal_294, NatureDSP_Signal_327
fft_real_twd32_48_tbl.o		120	rinfft32_48, rnfft32_48	NatureDSP_Signal_283, NatureDSP_Signal_316
fft_real_twd32_480_tbl.o		984	rinfft32_480, rnfft32_480	NatureDSP_Signal_295, NatureDSP_Signal_328
fft_real_twd32_512_tbl.o		1048	rfft32_512, rifft32_512	NatureDSP_Signal_277, NatureDSP_Signal_310
fft_real_twd32_540_tbl.o		3400	rinfft32_540, rnfft32_540	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd32_576_tbl.o		1176	rinfft32_576, rnfft32_576	NatureDSP_Signal_296, NatureDSP_Signal_329
fft_real_twd32_60_tbl.o		472	rinfft32_60, rnfft32_60	NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_352, NatureDSP_Signal_354, NatureDSP_Signal_362, NatureDSP_Signal_364, NatureDSP_Signal_372, NatureDSP_Signal_375
fft_real_twd32_64_tbl.o		152	rfft32_64, rifft32_64	NatureDSP_Signal_274, NatureDSP_Signal_307
fft_real_twd32_72_tbl.o		168	rinfft32_72, rnfft32_72	NatureDSP_Signal_284, NatureDSP_Signal_317
fft_real_twd32_720_tbl.o		1464	rinfft32_720, rnfft32_720	NatureDSP_Signal_299, NatureDSP_Signal_332
fft_real_twd32_768_tbl.o		4784	rinfft32_768, rnfft32_768	NatureDSP_Signal_342, NatureDSP_Signal_346, NatureDSP_Signal_348, NatureDSP_Signal_358, NatureDSP_Signal_361, NatureDSP_Signal_366, NatureDSP_Signal_368, NatureDSP_Signal_379, NatureDSP_Signal_418, NatureDSP_Signal_421
fft_real_twd32_8192_tbl.o		16408	rfft32_8192, rifft32_8192	NatureDSP_Signal_281, NatureDSP_Signal_314
fft_real_twd32_90_tbl.o		656	rinfft32_90, rnfft32_90	NatureDSP_Signal_344, NatureDSP_Signal_345, NatureDSP_Signal_352, NatureDSP_Signal_356, NatureDSP_Signal_364, NatureDSP_Signal_365, NatureDSP_Signal_372, NatureDSP_Signal_377
fft_real_twd32_96_tbl.o		216	rinfft32_96, rnfft32_96	NatureDSP_Signal_285, NatureDSP_Signal_318
fft_real_twd32_960_tbl.o		1944	rinfft32_960, rnfft32_960	NatureDSP_Signal_301, NatureDSP_Signal_334
fft_real_twd32x16_160_tbl.o		616	rinfft32x16_160, rnfft32x16_160	
fft_real_twd32x16_192_tbl.o		696	rinfft32x16_192, rnfft32x16_192	
fft_real_twd32x16_240_tbl.o		840	rinfft32x16_240, rnfft32x16_240	
fft_real_twd32x16_320_tbl.o		344	rinfft32x16_320, rnfft32x16_320	NatureDSP_Signal_774,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_799
fft_real_twd32x16_384_tbl.o		408	rinfft32x16_384, rnfft32x16_384	NatureDSP_Signal_773, NatureDSP_Signal_798
fft_real_twd32x16_480_tbl.o		504	rinfft32x16_480, rnfft32x16_480	NatureDSP_Signal_772, NatureDSP_Signal_797
cubic_kernel_hifi4.o	489	16	NatureDSP_Signal_845	
divide_q31_hifi4.o	470		NatureDSP_Signal_846, NatureDSP_Signal_926	
img_getCoef_dn_cubic_hifi4.o	1177		img_getCoef_dn_cubic_init, NatureDSP_Signal_853	NatureDSP_Signal_845, NatureDSP_Signal_846, NatureDSP_Signal_926
img_getCoef_dn_hifi4.o	941		img_getCoef_dn_init, NatureDSP_Signal_852	NatureDSP_Signal_846, NatureDSP_Signal_926
img_getCoef_up_cubic_hifi4.o	1177		img_getCoef_up_cubic_init, NatureDSP_Signal_855	NatureDSP_Signal_845, NatureDSP_Signal_846, NatureDSP_Signal_926
img_getCoef_up_hifi4.o	554		img_getCoef_up_init, NatureDSP_Signal_854	NatureDSP_Signal_846
imghist_gu8_hifi4.o	2007		imghist_gu8	
imghist_gs8_hifi4.o	2303		imghist_gs8	
imghist_gs8_hifi4.o	2303		imghist_gs8	
img_resize_hifi4.o	1192		NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895	
imgconvert_rgbyuv_hifi4.o	2034		imgconvert_rgbyuv	
imgconvert_rgbyuv16_hifi4.o	2280		imgconvert_rgbyuv16	
imgconvert_yuvrgb_hifi4.o	1789		imgconvert_yuvrgb	
imgconvert_yuvrgb16_hifi4.o	1171		imgconvert_yuvrgb16	
imgcopy_api_gu8_temp_hifi4.o	272	8	NatureDSP_Signal_876	
imgcopy_api_gs8_temp_hifi4.o	324	8	NatureDSP_Signal_1036	
imgcopy_api_gs16_temp_hifi4.o	356	8	NatureDSP_Signal_874	
imgcopy_api_gs16fast_temp_hifi4.o	201	8	NatureDSP_Signal_875	
imgcopy_api_gu8fast_temp_hifi4.o	123	8	NatureDSP_Signal_877	
imgcopy_api_gs8fast_temp_hifi4.o	166	8	NatureDSP_Signal_1037	
imgcopy_api_temp_gu8_hifi4.o	655	8	NatureDSP_Signal_878	
imgcopy_api_temp_gs8_hifi4.o	464	8	NatureDSP_Signal_1038	
imgcopy_api_temp_gs16_hifi4.o	276	8	NatureDSP_Signal_879	
imgcopy_api_temp_gs16fast_hifi4.o	399	8	NatureDSP_Signal_880	
imgcopy_api_temp_gu8fast_hifi4.o	1057	8	NatureDSP_Signal_881	
imgcopy_api_temp_gs8fast_hifi4.o	626	8	NatureDSP_Signal_1039	
imgcopyHorz_gu8_hifi4.o	258		NatureDSP_Signal_866	
imgcopyHorz_gs8_hifi4.o	25		NatureDSP_Signal_1032	NatureDSP_Signal_866
imgcopyHorz_gs16_hifi.o	192		NatureDSP_Signal_867	
imgcopyLeftRightBorders_gu8_hifi4.o	654		NatureDSP_Signal_868	
imgcopyLeftRightBorders_gs8_hifi4.o	117		NatureDSP_Signal_1033	NatureDSP_Signal_868
imgcopyLeftRightBorders_gs16_hifi4.o	826		NatureDSP_Signal_869	
imgcopyUpBtmBorders_gu8_hifi4.o	1236		NatureDSP_Signal_870	
imgcopyUpBtmBorders_gs8_hifi4.o	117		NatureDSP_Signal_1034	NatureDSP_Signal_870
imgcopyUpBtmBorders_gs16_hifi4.o	893		NatureDSP_Signal_871	
imgcopyVert_gu8_hifi4.o	305		NatureDSP_Signal_872	
imgcopyVert_gs8_hifi4.o	25		NatureDSP_Signal_1035	NatureDSP_Signal_872
imgcopyVert_gs16_hifi4.o	148		NatureDSP_Signal_873	
imgdeinterleave_hifi4.o	472		imgdeinterleave	
imgdeinterleave16_hifi4.o	527		imgdeinterleave16	
imgfastconvert_rgbyuv_hifi4.o	2792		imgfastconvert_rgbyuv	
imgfastconvert_rgbyuv16_hifi4.o	1472		imgfastconvert_rgbyuv16	
imgfastconvert_yuvrgb_hifi4.o	1353		imgfastconvert_yuvrgb	
imgfastconvert_yuvrgb16_hifi4.o	1451		imgfastconvert_yuvrgb16	
imgfastdeinterleave_hifi4.o	1354		imgfastdeinterleave	
imgfastdeinterleave16_hifi4.o	656		imgfastdeinterleave16	
imgfasthist_gu8_hifi4.o	1470		imgfasthist_gu8	
imgfasthist_gs8_hifi4.o	1675		imgfasthist_gs8	
imgfasthist_gs16_hifi4.o	1464		imgfasthist_gs16	
imgfastinterleave_hifi4.o	732		imgfastinterleave	

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			Global	Referenced
imgfastinterleave16_hifi4.o	662		imgfastinterleave16	
imgfastnorm_gu8_hifi4.o	2235		imgfastnorm_gu8	
imgfastnorm_gu8_nonlinear_hifi4.o	2352		imgfastnorm_gu8_nonlinear	
imgfastnorm_gs8_hifi4.o	2199		imgfastnorm_gs8	
imgfastnorm_gs8_nonlinear_hifi4.o	1874		imgfastnorm_gs8_nonlinear	
imgfastnorm_gs16_hifi4.o	1490		imgfastnorm_gs16	NatureDSP_Signal_846
imgfastnorm_gs16_nonlinear_hifi4.o	1147		imgfastnorm_gs16_nonlinear	
imgfastpad_gu8_hifi4.o	44	28	imgfastpad_gu8, imgfastpad_gu8_getScratchSize	NatureDSP_Signal_866, NatureDSP_Signal_868, NatureDSP_Signal_870, NatureDSP_Signal_872, NatureDSP_Signal_889, NatureDSP_Signal_890, NatureDSP_Signal_916
imgfastpad_gs8_hifi4.o	44	28	imgfastpad_gs8, imgfastpad_gs8_getScratchSize	NatureDSP_Signal_1032, NatureDSP_Signal_1033, NatureDSP_Signal_1034, NatureDSP_Signal_1035, NatureDSP_Signal_1047, NatureDSP_Signal_889, NatureDSP_Signal_890
imgfastpad_gs16_hifi4.o	44	28	imgfastpad_gs16, imgfastpad_gs16_getScratchSize	NatureDSP_Signal_867, NatureDSP_Signal_869, NatureDSP_Signal_871, NatureDSP_Signal_873, NatureDSP_Signal_889, NatureDSP_Signal_890, NatureDSP_Signal_917
imgfastresize_gu8_hifi4.o	87		imgfastresize_gu8_alloc, imgfastresize_gu8_getScratchSize, imgfastresize_gu8_init, imgfastresize_gu8_process	NatureDSP_Signal_877, NatureDSP_Signal_881, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895
imgfastresize_gs8_hifi4.o	87		imgfastresize_gs8_alloc, imgfastresize_gs8_getScratchSize, imgfastresize_gs8_init, imgfastresize_gs8_process	NatureDSP_Signal_1037, NatureDSP_Signal_1039, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895
imgfastresize_gs16_hifi4.o	87		imgfastresize_gs16_alloc, imgfastresize_gs16_getScratchSize, imgfastresize_gs16_init, imgfastresize_gs16_process	NatureDSP_Signal_875, NatureDSP_Signal_880, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895
imghist_gs16_hifi4.o	1428		imghist_gs16	
imginterleave_hifi4.o	298		imginterleave	
imginterleave16_hifi4.o	438		imginterleave16	
imgnorm_gu8_hifi4.o	4856		imgnorm_gu8	
imgnorm_gu8_nonlinear_hifi4.o	6002		imgnorm_gu8_nonlinear	
imgnorm_gs8_hifi4.o	4729		imgnorm_gs8	
imgnorm_gs8_nonlinear_hifi4.o	6553		imgnorm_gs8_nonlinear	
imgnorm_gs16_hifi4.o	1449		imgnorm_gs16	NatureDSP_Signal_846
imgnorm_gs16_nonlinear_hifi4.o	1174		imgnorm_gs16_nonlinear	
imgpad_gu8_hifi4.o	44	28	imgpad_gu8, imgpad_gu8_getScratchSize	NatureDSP_Signal_866, NatureDSP_Signal_868, NatureDSP_Signal_870, NatureDSP_Signal_872, NatureDSP_Signal_889, NatureDSP_Signal_890, NatureDSP_Signal_916
imgpad_gs8_hifi4.o	44	28	imgpad_gs8, imgpad_gs8_getScratchSize	NatureDSP_Signal_1032, NatureDSP_Signal_1033, NatureDSP_Signal_1034, NatureDSP_Signal_1035, NatureDSP_Signal_1047, NatureDSP_Signal_889, NatureDSP_Signal_890
imgpad_gs16_hifi4.o	44	28	imgpad_gs16, imgpad_gs16_getScratchSize	NatureDSP_Signal_867, NatureDSP_Signal_869, NatureDSP_Signal_871, NatureDSP_Signal_873,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_889, NatureDSP_Signal_890, NatureDSP_Signal_917
imgpad_process_hifi4.o	777		NatureDSP_Signal_889, NatureDSP_Signal_890	
imgresize_gu8_hifi4.o	87		imgresize_gu8_alloc, imgresize_gu8_getScratchSize, imgresize_gu8_init, imgresize_gu8_process	NatureDSP_Signal_876, NatureDSP_Signal_878, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895
imgresize_gs8_hifi4.o	87		imgresize_gs8_alloc, imgresize_gs8_getScratchSize, imgresize_gs8_init, imgresize_gs8_process	NatureDSP_Signal_1036, NatureDSP_Signal_1038, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895
imgresize_gs16_hifi4.o	87		imgresize_gs16_alloc, imgresize_gs16_getScratchSize, imgresize_gs16_init, imgresize_gs16_process	NatureDSP_Signal_874, NatureDSP_Signal_879, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895
imgresizer_bicubic_hifi4.o	1019	36	imgresize_method_bicubic	NatureDSP_Signal_897, NatureDSP_Signal_899, NatureDSP_Signal_901, NatureDSP_Signal_903, NatureDSP_Signal_907, NatureDSP_Signal_909, NatureDSP_Signal_911, NatureDSP_Signal_913
imgresizer_bilinear_hifi4.o	1019	36	imgresize_method_bilinear	NatureDSP_Signal_896, NatureDSP_Signal_898, NatureDSP_Signal_900, NatureDSP_Signal_902, NatureDSP_Signal_906, NatureDSP_Signal_908, NatureDSP_Signal_910, NatureDSP_Signal_912
imgresizer_dn2xh_cubic_hifi4.o	577	44	NatureDSP_Signal_897	
imgresizer_dn2xh_hifi4.o	410	36	NatureDSP_Signal_896	
imgresizer_dn2xv_cubic_hifi4.o	574	28	NatureDSP_Signal_899	
imgresizer_dn2xv_hifi4.o	460	20	NatureDSP_Signal_898	
imgresizer_dnxh_cubic_hifi4.o	1730	20	NatureDSP_Signal_901	img_getCoef_dn_cubic_init, NatureDSP_Signal_853
imgresizer_dnxh_hifi4.o	1622	20	NatureDSP_Signal_900	img_getCoef_dn_init, NatureDSP_Signal_852
imgresizer_dnxv_cubic_hifi4.o	796	20	NatureDSP_Signal_903	img_getCoef_dn_cubic_init, NatureDSP_Signal_853
imgresizer_dnxv_hifi4.o	881	20	NatureDSP_Signal_902	img_getCoef_dn_init, NatureDSP_Signal_852
imgresizer_nearest_hifi4.o	266	36	imgresize_method_nearest	NatureDSP_Signal_904, NatureDSP_Signal_905
imgresizer_nh_hifi4.o	13185	20	NatureDSP_Signal_904	
imgresizer_nv_hifi4.o	2763	20	NatureDSP_Signal_905	
imgresizer_up2xh_cubic_hifi4.o	664	28	NatureDSP_Signal_907	
imgresizer_up2xh_hifi4.o	371	20	NatureDSP_Signal_906	
imgresizer_up2xv_cubic_hifi4.o	704	28	NatureDSP_Signal_909	
imgresizer_up2xv_hifi4.o	314	20	NatureDSP_Signal_908	
imgresizer_upxh_cubic_hifi4.o	1599	20	NatureDSP_Signal_911	img_getCoef_up_cubic_init, NatureDSP_Signal_855
imgresizer_upxh_hifi4.o	1355	20	NatureDSP_Signal_910	img_getCoef_up_init, NatureDSP_Signal_854
imgresizer_upxv_cubic_hifi4.o	915	20	NatureDSP_Signal_913	img_getCoef_up_cubic_init, NatureDSP_Signal_855
imgresizer_upxv_hifi4.o	1078	20	NatureDSP_Signal_912	img_getCoef_up_init, NatureDSP_Signal_854
imgsubcopy_gu8_hifi4.o	530		NatureDSP_Signal_916	
imgsubcopy_gs8_hifi4.o	29		NatureDSP_Signal_1047	NatureDSP_Signal_916

Object file	Code size	Data size	Symbols	
			Global	Referenced
imgsubcopy_gs16_hifi4.o	653		NatureDSP_Signal_917	
imgfft_common_hifi4.o	2486		NatureDSP_Signal_930, NatureDSP_Signal_932	cfft16_1024, cfft16_128, cfft16_2048, cfft16_256, cfft16_512, cfft16_64, cnfft16_144, cnfft16_176, cnfft16_240, cnfft16_288, cnfft16_320, cnfft16_352, cnfft16_384, cnfft16_480, cnfft16_576, cnfft16_640, cnfft16_96, fft_cplx16x16, fft_real16x16, rfft16_1024, rfft16_128, rfft16_2048, rfft16_256, rfft16_512, rfft16_64, rnfft16_144, rnfft16_176, rnfft16_240, rnfft16_288, rnfft16_320, rnfft16_352, rnfft16_384, rnfft16_480, rnfft16_576, rnfft16_640, rnfft16_96
imgfft_gu8_hifi4.o	227		imgfft_gu8, imgfft_gu8_getScratchSize	NatureDSP_Signal_930, NatureDSP_Signal_932
imgfft_gs8_hifi4.o	352		imgfft_gs8, imgfft_gs8_getScratchSize	NatureDSP_Signal_930, NatureDSP_Signal_932
imgfft_gs16_hifi4.o	183		imgfft_gs16, imgfft_gs16_getScratchSize	NatureDSP_Signal_930, NatureDSP_Signal_932
imgifft_common_hifi4.o	1425		NatureDSP_Signal_931, NatureDSP_Signal_933	cifft16_1024, cifft16_128, cifft16_2048, cifft16_256, cifft16_512, cifft16_64, cinfft16_144, cinfft16_176, cinfft16_240, cinfft16_288, cinfft16_320, cinfft16_352, cinfft16_384, cinfft16_480, cinfft16_576, cinfft16_640, cinfft16_96, ifft_cplx16x16, ifft_real16x16, rifft16_1024, rifft16_128, rifft16_2048, rifft16_256, rifft16_512, rifft16_64, rinfft16_144, rinfft16_176, rinfft16_240, rinfft16_288, rinfft16_320, rinfft16_352, rinfft16_384, rinfft16_480, rinfft16_576, rinfft16_640, rinfft16_96
imgifft_gu8_hifi4.o	851		imgifft_gu8, imgifft_gu8_getScratchSize	__divsi3, NatureDSP_Signal_931, NatureDSP_Signal_933
imgifft_gs8_hifi4.o	658		imgifft_gs8, imgifft_gs8_getScratchSize	__divsi3,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_931, NatureDSP_Signal_933
imgifft_gs16_hifi4.o	394		imgifft_gs16, imgifft_gs16_getScratchSize	__divsi3, NatureDSP_Signal_931, NatureDSP_Signal_933
img_gu8_crop_hifi4.o	1931		NatureDSP_Signal_860	
img_gs8_crop_hifi4.o	942		NatureDSP_Signal_1024	
img_gs_hshear_hifi4.o	900		NatureDSP_Signal_862	
img_gu8_rot0_16_hifi4.o	818		NatureDSP_Signal_979	
img_gu8_rot0_hifi4.o	805		NatureDSP_Signal_978	
img_gu8_rot180_16_hifi4.o	786		NatureDSP_Signal_981	
img_gu8_rot180_hifi4.o	1704		NatureDSP_Signal_980	
img_gu8_rot270_16_hifi4.o	1258		NatureDSP_Signal_983	
img_gu8_rot270_hifi4.o	578		NatureDSP_Signal_982	
img_gu8_rot90_16_hifi4.o	1148		NatureDSP_Signal_985	
img_gu8_rot90_hifi4.o	642		NatureDSP_Signal_984	
img_gu8_rotq_hifi4.o	104		NatureDSP_Signal_863	NatureDSP_Signal_978, NatureDSP_Signal_980, NatureDSP_Signal_982, NatureDSP_Signal_984
img_gu8_rotq16_hifi4.o	126		NatureDSP_Signal_864	NatureDSP_Signal_979, NatureDSP_Signal_981, NatureDSP_Signal_983, NatureDSP_Signal_985
img_gs8_rot0_16_hifi4.o	983		NatureDSP_Signal_1026	
img_gs8_rot180_16_hifi4.o	1018		NatureDSP_Signal_1027	
img_gs8_rot270_16_hifi4.o	1380		NatureDSP_Signal_1028	
img_gs8_rot90_16_hifi4.o	1269		NatureDSP_Signal_1029	
img_gs8_rotq_hifi4.o	104		NatureDSP_Signal_1030	NatureDSP_Signal_978, NatureDSP_Signal_980, NatureDSP_Signal_982, NatureDSP_Signal_984
img_gs8_rotq16_hifi4.o	126		NatureDSP_Signal_1031	NatureDSP_Signal_1026, NatureDSP_Signal_1027, NatureDSP_Signal_1028, NatureDSP_Signal_1029
img_gs_vshear_hifi4.o	3087		NatureDSP_Signal_865	
img_gs16_crop_hifi4.o	560		NatureDSP_Signal_856	
img_gs16_rot0_hifi4.o	244		NatureDSP_Signal_974	
img_gs16_rot0_16_hifi4.o	483		NatureDSP_Signal_1013	
img_gs16_rot180_hifi4.o	271		NatureDSP_Signal_975	
img_gs16_rot180_16_hifi4.o	484		NatureDSP_Signal_1014	
img_gs16_rot270_hifi4.o	1087		NatureDSP_Signal_976	
img_gs16_rot270_16_hifi4.o	1461		NatureDSP_Signal_1015	
img_gs16_rot90_hifi4.o	1026		NatureDSP_Signal_977	
img_gs16_rot90_16_hifi4.o	1341		NatureDSP_Signal_1016	
img_gs16_rotq_hifi4.o	104		NatureDSP_Signal_858	NatureDSP_Signal_974, NatureDSP_Signal_975, NatureDSP_Signal_976, NatureDSP_Signal_977
img_gs16_rotq16_hifi4.o	126		NatureDSP_Signal_859	NatureDSP_Signal_1013, NatureDSP_Signal_1014, NatureDSP_Signal_1015, NatureDSP_Signal_1016
imgfast_gu8_crop_hifi4.o	1017		NatureDSP_Signal_886	
imgfast_gu8_rot0_16_hifi4.o	540		NatureDSP_Signal_995	
imgfast_gu8_rot0_hifi4.o	142		NatureDSP_Signal_994	
imgfast_gu8_rot180_16_hifi4.o	634		NatureDSP_Signal_997	
imgfast_gu8_rot180_hifi4.o	777		NatureDSP_Signal_996	
imgfast_gu8_rot270_16_hifi4.o	1728		NatureDSP_Signal_999	
imgfast_gu8_rot270_hifi4.o	910		NatureDSP_Signal_998	
imgfast_gu8_rot90_16_hifi4.o	1432		NatureDSP_Signal_1001	
imgfast_gu8_rot90_hifi4.o	833		NatureDSP_Signal_1000	
imgfast_gu8_rotq_hifi4.o	104		NatureDSP_Signal_887	NatureDSP_Signal_1000, NatureDSP_Signal_994, NatureDSP_Signal_996, NatureDSP_Signal_998
imgfast_gu8_rotq16_hifi4.o	126		NatureDSP_Signal_888	NatureDSP_Signal_1001, NatureDSP_Signal_995, NatureDSP_Signal_997, NatureDSP_Signal_999
imgfast_gs8_crop_hifi4.o	573		NatureDSP_Signal_1040	
imgfast_gs8_rot0_16_hifi4.o	585		NatureDSP_Signal_1041	
imgfast_gs8_rot180_16_hifi4.o	693		NatureDSP_Signal_1042	
imgfast_gs8_rot270_16_hifi4.o	2067		NatureDSP_Signal_1043	

Object file	Code size	Data size	Symbols	
			Global	Referenced
imgfast_gs8_rot90_16_hifi4.o	1612		NatureDSP_Signal_1044	
imgfast_gs8_rotq_hifi4.o	104		NatureDSP_Signal_1045	NatureDSP_Signal_1000, NatureDSP_Signal_994, NatureDSP_Signal_996, NatureDSP_Signal_998
imgfast_gs8_rotq16_hifi4.o	126		NatureDSP_Signal_1046	NatureDSP_Signal_1041, NatureDSP_Signal_1042, NatureDSP_Signal_1043, NatureDSP_Signal_1044
imgfast_gs16_crop_hifi4.o	532		NatureDSP_Signal_882	
imgfast_gs16_rot0_16_hifi4.o	437		NatureDSP_Signal_987	
imgfast_gs16_rot0_hifi4.o	167		NatureDSP_Signal_986	
imgfast_gs16_rot180_16_hifi4.o	541		NatureDSP_Signal_989	
imgfast_gs16_rot180_hifi4.o	262		NatureDSP_Signal_988	
imgfast_gs16_rot270_16_hifi4.o	1864		NatureDSP_Signal_991	
imgfast_gs16_rot270_hifi4.o	1502		NatureDSP_Signal_990	
imgfast_gs16_rot90_16_hifi4.o	1794		NatureDSP_Signal_993	
imgfast_gs16_rot90_hifi4.o	1424		NatureDSP_Signal_992	
imgfast_gs16_rotq_hifi4.o	104		NatureDSP_Signal_884	NatureDSP_Signal_986, NatureDSP_Signal_988, NatureDSP_Signal_990, NatureDSP_Signal_992
imgfast_gs16_rotq16_hifi4.o	126		NatureDSP_Signal_885	NatureDSP_Signal_987, NatureDSP_Signal_989, NatureDSP_Signal_991, NatureDSP_Signal_993
imgfastrotate_gu8_hifi4.o	258	40	imgfastrotate_gu8_alloc, imgfastrotate_gu8_getOutSize, imgfastrotate_gu8_getScratchSize, imgfastrotate_gu8_init, imgfastrotate_gu8_process	NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_886, NatureDSP_Signal_887, NatureDSP_Signal_888, NatureDSP_Signal_914, NatureDSP_Signal_915
imgfastrotate_gs8_hifi4.o	258	40	imgfastrotate_gs8_alloc, imgfastrotate_gs8_getOutSize, imgfastrotate_gs8_getScratchSize, imgfastrotate_gs8_init, imgfastrotate_gs8_process	NatureDSP_Signal_1040, NatureDSP_Signal_1045, NatureDSP_Signal_1046, NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_914, NatureDSP_Signal_915
imgfastrotate_gs16_hifi4.o	258	40	imgfastrotate_gs16_alloc, imgfastrotate_gs16_getOutSize, imgfastrotate_gs16_getScratchSize, imgfastrotate_gs16_init, imgfastrotate_gs16_process, NatureDSP_Signal_883	NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_882, NatureDSP_Signal_884, NatureDSP_Signal_885, NatureDSP_Signal_914, NatureDSP_Signal_915
imgrotate_getCoef_hifi4.o	604	48	NatureDSP_Signal_914	
imgrotate_gu8_hifi4.o	258	40	imgrotate_gu8_alloc, imgrotate_gu8_getOutSize, imgrotate_gu8_getScratchSize, imgrotate_gu8_init, imgrotate_gu8_process, NatureDSP_Signal_861	NatureDSP_Signal_860, NatureDSP_Signal_862, NatureDSP_Signal_863, NatureDSP_Signal_864, NatureDSP_Signal_865, NatureDSP_Signal_914, NatureDSP_Signal_915
imgrotate_gs8_hifi4.o	258	40	imgrotate_gs8_alloc, imgrotate_gs8_getOutSize, imgrotate_gs8_getScratchSize, imgrotate_gs8_init, imgrotate_gs8_process, NatureDSP_Signal_1025	NatureDSP_Signal_1024, NatureDSP_Signal_1030, NatureDSP_Signal_1031, NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_914, NatureDSP_Signal_915
imgrotate_gs16_hifi4.o	258	40	imgrotate_gs16_alloc, imgrotate_gs16_getOutSize, imgrotate_gs16_getScratchSize, imgrotate_gs16_init, imgrotate_gs16_process, NatureDSP_Signal_857	NatureDSP_Signal_856, NatureDSP_Signal_858, NatureDSP_Signal_859, NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_914, NatureDSP_Signal_915
imgrotate_process_hifi4.o	231		NatureDSP_Signal_915	
cmatcholtransformR_hifi4.o	122		NatureDSP_Signal_968	
cmatcholbkwsubstnxn_hifi4.o	748		NatureDSP_Signal_1017	
cmatcholfwdsubstnxn_hifi4.o	519		NatureDSP_Signal_1018	
cmatcholfwdsubstrec_hifi4.o	563		NatureDSP_Signal_1019	
cmatcholdiagUpd_hifi4.o	293		NatureDSP_Signal_965	

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			Global	Referenced
cmatcholdecomp10x10_32x32_hifi4.o	1026		cmatcholdecomp10x10_32x32, cmatcholdecomp10x10_32x32_getScratchSize	NatureDSP_Signal_1019, NatureDSP_Signal_965
cmatcholdecomp4x4_32x32_hifi4.o	597		cmatcholdecomp4x4_32x32, cmatcholdecomp4x4_32x32_getScratchSize	NatureDSP_Signal_1019, NatureDSP_Signal_965
cmatcholdecomp6x6_32x32_hifi4.o	721		cmatcholdecomp6x6_32x32, cmatcholdecomp6x6_32x32_getScratchSize	NatureDSP_Signal_1019, NatureDSP_Signal_965
cmatcholdecomp8x8_32x32_hifi4.o	888		cmatcholdecomp8x8_32x32, cmatcholdecomp8x8_32x32_getScratchSize	NatureDSP_Signal_1019, NatureDSP_Signal_965
cmatcholbkwsubst10x10_32x32_hifi4.o	434		cmatcholbkwsubst10x10_32x32, cmatcholbkwsubst10x10_32x32_getScratchSize	
cmatcholbkwsubst4x4_32x32_hifi4.o	413		cmatcholbkwsubst4x4_32x32, cmatcholbkwsubst4x4_32x32_getScratchSize	
cmatcholbkwsubst6x6_32x32_hifi4.o	434		cmatcholbkwsubst6x6_32x32, cmatcholbkwsubst6x6_32x32_getScratchSize	
cmatcholbkwsubst8x8_32x32_hifi4.o	434		cmatcholbkwsubst8x8_32x32, cmatcholbkwsubst8x8_32x32_getScratchSize	
cmatcholfwdsubst10x10_32x32_hifi4.o	1195		cmatcholfwdsubst10x10_32x32, cmatcholfwdsubst10x10_32x32_getScratchSize	
cmatcholfwdsubst4x4_32x32_hifi4.o	686		cmatcholfwdsubst4x4_32x32, cmatcholfwdsubst4x4_32x32_getScratchSize	
cmatcholfwdsubst6x6_32x32_hifi4.o	836		cmatcholfwdsubst6x6_32x32, cmatcholfwdsubst6x6_32x32_getScratchSize	
cmatcholfwdsubst8x8_32x32_hifi4.o	947		cmatcholfwdsubst8x8_32x32, cmatcholfwdsubst8x8_32x32_getScratchSize	
cmatcholmmsesolver10x10_32x32_hifi4.o	161		cmatcholmmsesolver10x10_32x32, cmatcholmmsesolver10x10_32x32_getScratchSize	cmatcholbkwsubst10x10_32x32, cmatcholbkwsubst10x10_32x32_getScratchSize, cmatcholdecomp10x10_32x32, cmatcholdecomp10x10_32x32_getScratchSize, cmatcholfwdsubst10x10_32x32, cmatcholfwdsubst10x10_32x32_getScratchSize
cmatcholmmsesolver4x4_32x32_hifi4.o	158		cmatcholmmsesolver4x4_32x32, cmatcholmmsesolver4x4_32x32_getScratchSize	cmatcholbkwsubst4x4_32x32, cmatcholbkwsubst4x4_32x32_getScratchSize, cmatcholdecomp4x4_32x32, cmatcholdecomp4x4_32x32_getScratchSize, cmatcholfwdsubst4x4_32x32, cmatcholfwdsubst4x4_32x32_getScratchSize
cmatcholmmsesolver6x6_32x32_hifi4.o	161		cmatcholmmsesolver6x6_32x32, cmatcholmmsesolver6x6_32x32_getScratchSize	cmatcholbkwsubst6x6_32x32, cmatcholbkwsubst6x6_32x32_getScratchSize, cmatcholdecomp6x6_32x32, cmatcholdecomp6x6_32x32_getScratchSize, cmatcholfwdsubst6x6_32x32, cmatcholfwdsubst6x6_32x32_getScratchSize
cmatcholmmsesolver8x8_32x32_hifi4.o	161		cmatcholmmsesolver8x8_32x32, cmatcholmmsesolver8x8_32x32_getScratchSize	cmatcholbkwsubst8x8_32x32, cmatcholbkwsubst8x8_32x32_getScratchSize, cmatcholdecomp8x8_32x32, cmatcholdecomp8x8_32x32_getScratchSize, cmatcholfwdsubst8x8_32x32, cmatcholfwdsubst8x8_32x32_getScratchSize
cmatcholpseudoinv10x10_32x32_hifi4.o	153		cmatcholpseudoinv10x10_32x32, cmatcholpseudoinv10x10_32x32_getScratchSize	cmatcholdecomp10x10_32x32, cmatcholdecomp10x10_32x32_getScratchSize, NatureDSP_Signal_1017,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				NatureDSP_Signal_1018, NatureDSP_Signal_968
cmatcholpseudoinv4x4_32x32_hifi4.o	147		cmatcholpseudoinv4x4_32x32, cmatcholpseudoinv4x4_32x32_getScratchSize	cmatcholdecomp4x4_32x32, cmatcholdecomp4x4_32x32_getScratchSize, NatureDSP_Signal_1017, NatureDSP_Signal_1018, NatureDSP_Signal_968
cmatcholpseudoinv6x6_32x32_hifi4.o	150		cmatcholpseudoinv6x6_32x32, cmatcholpseudoinv6x6_32x32_getScratchSize	cmatcholdecomp6x6_32x32, cmatcholdecomp6x6_32x32_getScratchSize, NatureDSP_Signal_1017, NatureDSP_Signal_1018, NatureDSP_Signal_968
cmatcholpseudoinv8x8_32x32_hifi4.o	153		cmatcholpseudoinv8x8_32x32, cmatcholpseudoinv8x8_32x32_getScratchSize	cmatcholdecomp8x8_32x32, cmatcholdecomp8x8_32x32_getScratchSize, NatureDSP_Signal_1017, NatureDSP_Signal_1018, NatureDSP_Signal_968
cmatcholpreprocess10x10_32x32_hifi4.o	1010		cmatcholpreprocess10x10_32x32, cmatcholpreprocess10x10_32x32_getScratchSize	
cmatcholpreprocess4x4_32x32_hifi4.o	626		cmatcholpreprocess4x4_32x32, cmatcholpreprocess4x4_32x32_getScratchSize	
cmatcholpreprocess6x6_32x32_hifi4.o	724		cmatcholpreprocess6x6_32x32, cmatcholpreprocess6x6_32x32_getScratchSize	
cmatcholpreprocess8x8_32x32_hifi4.o	888		cmatcholpreprocess8x8_32x32, cmatcholpreprocess8x8_32x32_getScratchSize	
matcholbkwsubstnxn_hifi4.o	440		NatureDSP_Signal_1020	
matcholfwdsubstnxn_hifi4.o	386		NatureDSP_Signal_1022	
matcholfwdsubstrec_hifi4.o	508		NatureDSP_Signal_1023	
matcholdiagUpd_hifi4.o	274		NatureDSP_Signal_1021	
matcholdecomp10x10_32x32_hifi4.o	115		matcholdecomp10x10_32x32, matcholdecomp10x10_32x32_getScratchSize	matcholpreprocess10x10_32x32, NatureDSP_Signal_1021, NatureDSP_Signal_1023
matcholdecomp4x4_32x32_hifi4.o	115		matcholdecomp4x4_32x32, matcholdecomp4x4_32x32_getScratchSize	matcholpreprocess4x4_32x32, NatureDSP_Signal_1021, NatureDSP_Signal_1023
matcholdecomp6x6_32x32_hifi4.o	115		matcholdecomp6x6_32x32, matcholdecomp6x6_32x32_getScratchSize	matcholpreprocess6x6_32x32, NatureDSP_Signal_1021, NatureDSP_Signal_1023
matcholdecomp8x8_32x32_hifi4.o	115		matcholdecomp8x8_32x32, matcholdecomp8x8_32x32_getScratchSize	matcholpreprocess8x8_32x32, NatureDSP_Signal_1021, NatureDSP_Signal_1023
matcholbkwsubst10x10_32x32_hifi4.o	316		matcholbkwsubst10x10_32x32, matcholbkwsubst10x10_32x32_getScratchSize	
matcholbkwsubst4x4_32x32_hifi4.o	314		matcholbkwsubst4x4_32x32, matcholbkwsubst4x4_32x32_getScratchSize	
matcholbkwsubst6x6_32x32_hifi4.o	302		matcholbkwsubst6x6_32x32, matcholbkwsubst6x6_32x32_getScratchSize	
matcholbkwsubst8x8_32x32_hifi4.o	311		matcholbkwsubst8x8_32x32, matcholbkwsubst8x8_32x32_getScratchSize	
matcholfwdsubst10x10_32x32_hifi4.o	725		matcholfwdsubst10x10_32x32, matcholfwdsubst10x10_32x32_getScratchSize	
matcholfwdsubst4x4_32x32_hifi4.o	422		matcholfwdsubst4x4_32x32, matcholfwdsubst4x4_32x32_getScratchSize	
matcholfwdsubst6x6_32x32_hifi4.o	575		matcholfwdsubst6x6_32x32, matcholfwdsubst6x6_32x32_getScratchSize	
matcholfwdsubst8x8_32x32_hifi4.o	693		matcholfwdsubst8x8_32x32, matcholfwdsubst8x8_32x32_getScratchSize	
matcholmmsesolver10x10_32x32_hifi4.o	230		matcholmmsesolver10x10_32x32, matcholmmsesolver10x10_32x32_getScratchSize	matcholbkwsubst10x10_32x32, matcholbkwsubst10x10_32x32_getScratchSize, matcholdecomp10x10_32x32, matcholdecomp10x10_32x32_getScratchSize, matcholfwdsubst10x10_32x32,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				matcholfwdsubst10x10_32x32_getScratchSize
matcholmmsesolver4x4_32x32_hifi4.o	222		matcholmmsesolver4x4_32x32, matcholmmsesolver4x4_32x32_getScratchSize	matcholbkwsubst4x4_32x32, matcholbkwsubst4x4_32x32_getScratchSize, matcholdecomp4x4_32x32, matcholdecomp4x4_32x32_getScratchSize, matcholfwdsubst4x4_32x32, matcholfwdsubst4x4_32x32_getScratchSize
matcholmmsesolver6x6_32x32_hifi4.o	224		matcholmmsesolver6x6_32x32, matcholmmsesolver6x6_32x32_getScratchSize	matcholbkwsubst6x6_32x32, matcholbkwsubst6x6_32x32_getScratchSize, matcholdecomp6x6_32x32, matcholdecomp6x6_32x32_getScratchSize, matcholfwdsubst6x6_32x32, matcholfwdsubst6x6_32x32_getScratchSize
matcholmmsesolver8x8_32x32_hifi4.o	230		matcholmmsesolver8x8_32x32, matcholmmsesolver8x8_32x32_getScratchSize	matcholbkwsubst8x8_32x32, matcholbkwsubst8x8_32x32_getScratchSize, matcholdecomp8x8_32x32, matcholdecomp8x8_32x32_getScratchSize, matcholfwdsubst8x8_32x32, matcholfwdsubst8x8_32x32_getScratchSize
matcholpseudoinv10x10_32x32_hifi4.o	137		matcholpseudoinv10x10_32x32, matcholpseudoinv10x10_32x32_getScratchSize	matcholdecomp10x10_32x32, matcholdecomp10x10_32x32_getScratchSize, NatureDSP_Signal_1020, NatureDSP_Signal_1022
matcholpseudoinv4x4_32x32_hifi4.o	129		matcholpseudoinv4x4_32x32, matcholpseudoinv4x4_32x32_getScratchSize	matcholdecomp4x4_32x32, matcholdecomp4x4_32x32_getScratchSize, NatureDSP_Signal_1020, NatureDSP_Signal_1022
matcholpseudoinv6x6_32x32_hifi4.o	132		matcholpseudoinv6x6_32x32, matcholpseudoinv6x6_32x32_getScratchSize	matcholdecomp6x6_32x32, matcholdecomp6x6_32x32_getScratchSize, NatureDSP_Signal_1020, NatureDSP_Signal_1022
matcholpseudoinv8x8_32x32_hifi4.o	137		matcholpseudoinv8x8_32x32, matcholpseudoinv8x8_32x32_getScratchSize	matcholdecomp8x8_32x32, matcholdecomp8x8_32x32_getScratchSize, NatureDSP_Signal_1020, NatureDSP_Signal_1022
matcholpreprocess10x10_32x32_hifi4.o	339		matcholpreprocess10x10_32x32, matcholpreprocess10x10_32x32_getScratchSize	
matcholpreprocess4x4_32x32_hifi4.o	330		matcholpreprocess4x4_32x32, matcholpreprocess4x4_32x32_getScratchSize	
matcholpreprocess6x6_32x32_hifi4.o	330		matcholpreprocess6x6_32x32, matcholpreprocess6x6_32x32_getScratchSize	
matcholpreprocess8x8_32x32_hifi4.o	336		matcholpreprocess8x8_32x32, matcholpreprocess8x8_32x32_getScratchSize	
cmatcholdecomp10x10f_hifi4.o	115	40	cmatcholdecomp10x10f, cmatcholdecomp10x10f_getScratchSize	cmatcholpreprocess10x10f, NatureDSP_Signal_1012, NatureDSP_Signal_831, NatureDSP_Signal_832, NatureDSP_Signal_833, NatureDSP_Signal_834, NatureDSP_Signal_835, NatureDSP_Signal_836, NatureDSP_Signal_837, NatureDSP_Signal_838, NatureDSP_Signal_839, NatureDSP_Signal_840

Object file	Code size	Data size	Symbols	
			Global	Referenced
cmatcholdecomp4x4f_hifi4.o	115	16	cmatcholdecomp4x4f, cmatcholdecomp4x4f_getScratchSize	cmatcholpreprocess4x4f, NatureDSP_Signal_1012, NatureDSP_Signal_832, NatureDSP_Signal_833, NatureDSP_Signal_834, NatureDSP_Signal_835
cmatcholdecomp6x6f_hifi4.o	115	24	cmatcholdecomp6x6f, cmatcholdecomp6x6f_getScratchSize	cmatcholpreprocess6x6f, NatureDSP_Signal_1012, NatureDSP_Signal_832, NatureDSP_Signal_833, NatureDSP_Signal_834, NatureDSP_Signal_835, NatureDSP_Signal_836, NatureDSP_Signal_837
cmatcholdecomp8x8f_hifi4.o	115	32	cmatcholdecomp8x8f, cmatcholdecomp8x8f_getScratchSize	cmatcholpreprocess8x8f, NatureDSP_Signal_1012, NatureDSP_Signal_832, NatureDSP_Signal_833, NatureDSP_Signal_834, NatureDSP_Signal_835, NatureDSP_Signal_836, NatureDSP_Signal_837, NatureDSP_Signal_838, NatureDSP_Signal_839
cmatcholbkwsubst10x10f_hifi4.o	875		cmatcholbkwsubst10x10f, cmatcholbkwsubst10x10f_getScratchSize	
cmatcholbkwsubst4x4f_hifi4.o	210		cmatcholbkwsubst4x4f, cmatcholbkwsubst4x4f_getScratchSize	
cmatcholbkwsubst6x6f_hifi4.o	389		cmatcholbkwsubst6x6f, cmatcholbkwsubst6x6f_getScratchSize	
cmatcholbkwsubst8x8f_hifi4.o	612		cmatcholbkwsubst8x8f, cmatcholbkwsubst8x8f_getScratchSize	
cmatcholfwdsubst10x10f_hifi4.o	460		cmatcholfwdsubst10x10f, cmatcholfwdsubst10x10f_getScratchSize, NatureDSP_Signal_841	NatureDSP_Signal_831
cmatcholfwdsubst4x4f_hifi4.o	276		cmatcholfwdsubst4x4f, cmatcholfwdsubst4x4f_getScratchSize, NatureDSP_Signal_842	NatureDSP_Signal_835
cmatcholfwdsubst6x6f_hifi4.o	276		cmatcholfwdsubst6x6f, cmatcholfwdsubst6x6f_getScratchSize, NatureDSP_Signal_843	NatureDSP_Signal_837
cmatcholfwdsubst8x8f_hifi4.o	398		cmatcholfwdsubst8x8f, cmatcholfwdsubst8x8f_getScratchSize, NatureDSP_Signal_844	NatureDSP_Signal_839
cmatcholmmsesolver10x10f_hifi4.o	124		cmatcholmmsesolver10x10f, cmatcholmmsesolver10x10f_getScratchSize	cmatcholbkwsubst10x10f, cmatcholbkwsubst10x10f_ getScratchSize, cmatcholdecomp10x10f, cmatcholdecomp10x10f_ge tScratchSize, cmatcholfwdsubst10x10f, cmatcholfwdsubst10x10f_ getScratchSize
cmatcholmmsesolver4x4f_hifi4.o	121		cmatcholmmsesolver4x4f, cmatcholmmsesolver4x4f_getScratchSize	cmatcholbkwsubst4x4f, cmatcholbkwsubst4x4f_ge tScratchSize, cmatcholdecomp4x4f, cmatcholdecomp4x4f_getS cratchSize, cmatcholfwdsubst4x4f, cmatcholfwdsubst4x4f_ge tScratchSize
cmatcholmmsesolver6x6f_hifi4.o	123		cmatcholmmsesolver6x6f, cmatcholmmsesolver6x6f_getScratchSize	cmatcholbkwsubst6x6f, cmatcholbkwsubst6x6f_ge tScratchSize, cmatcholdecomp6x6f, cmatcholdecomp6x6f_getS cratchSize, cmatcholfwdsubst6x6f, cmatcholfwdsubst6x6f_ge tScratchSize
cmatcholmmsesolver8x8f_hifi4.o	126		cmatcholmmsesolver8x8f, cmatcholmmsesolver8x8f_getScratchSize	cmatcholbkwsubst8x8f, cmatcholbkwsubst8x8f_ge tScratchSize, cmatcholdecomp8x8f, cmatcholdecomp8x8f_getS cratchSize, cmatcholfwdsubst8x8f,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				cmatcholfwdsubst8x8f_getScratchSize
cmatcholpseudoinv10x10f_hifi4.o	1195		cmatcholpseudoinv10x10f, cmatcholpseudoinv10x10f_getScratchSize	cmatcholdecomp10x10f, cmatcholdecomp10x10f_getScratchSize
cmatcholpseudoinv4x4f_hifi4.o	454		cmatcholpseudoinv4x4f, cmatcholpseudoinv4x4f_getScratchSize	cmatcholdecomp4x4f, cmatcholdecomp4x4f_getScratchSize
cmatcholpseudoinv6x6f_hifi4.o	767		cmatcholpseudoinv6x6f, cmatcholpseudoinv6x6f_getScratchSize	cmatcholdecomp6x6f, cmatcholdecomp6x6f_getScratchSize
cmatcholpseudoinv8x8f_hifi4.o	1004		cmatcholpseudoinv8x8f, cmatcholpseudoinv8x8f_getScratchSize	cmatcholdecomp8x8f, cmatcholdecomp8x8f_getScratchSize
cmatcholpreprocess10x10f_hifi4.o	328		cmatcholpreprocess10x10f, cmatcholpreprocess10x10f_getScratchSize	
cmatcholpreprocess4x4f_hifi4.o	628		cmatcholpreprocess4x4f, cmatcholpreprocess4x4f_getScratchSize	
cmatcholpreprocess6x6f_hifi4.o	327		cmatcholpreprocess6x6f, cmatcholpreprocess6x6f_getScratchSize	
cmatcholpreprocess8x8f_hifi4.o	323		cmatcholpreprocess8x8f, cmatcholpreprocess8x8f_getScratchSize	
cplxcholDiagUpdf_hifi4.o	108		NatureDSP_Signal_1012	
cplxcholFwdrec10f_hifi4.o	832		NatureDSP_Signal_831	
cplxcholFwdrec1f_hifi4.o	20		NatureDSP_Signal_832	
cplxcholFwdrec2f_hifi4.o	54		NatureDSP_Signal_833	
cplxcholFwdrec3f_hifi4.o	110		NatureDSP_Signal_834	
cplxcholFwdrec4f_hifi4.o	183		NatureDSP_Signal_835	
cplxcholFwdrec5f_hifi4.o	264		NatureDSP_Signal_836	
cplxcholFwdrec6f_hifi4.o	353		NatureDSP_Signal_837	
cplxcholFwdrec7f_hifi4.o	459		NatureDSP_Signal_838	
cplxcholFwdrec8f_hifi4.o	575		NatureDSP_Signal_839	
cplxcholFwdrec9f_hifi4.o	697		NatureDSP_Signal_840	
matcholdecomp10x10f_hifi4.o	115	40	matcholdecomp10x10f, matcholdecomp10x10f_getScratchSize	matcholpreprocess10x10f, NatureDSP_Signal_1002, NatureDSP_Signal_1003, NatureDSP_Signal_1004, NatureDSP_Signal_1005, NatureDSP_Signal_1006, NatureDSP_Signal_1007, NatureDSP_Signal_1008, NatureDSP_Signal_1009, NatureDSP_Signal_1010, NatureDSP_Signal_1011, NatureDSP_Signal_972
matcholdecomp4x4f_hifi4.o	114	16	matcholdecomp4x4f, matcholdecomp4x4f_getScratchSize	matcholpreprocess4x4f, NatureDSP_Signal_1003, NatureDSP_Signal_1004, NatureDSP_Signal_1005, NatureDSP_Signal_1006, NatureDSP_Signal_972
matcholdecomp6x6f_hifi4.o	115	24	matcholdecomp6x6f, matcholdecomp6x6f_getScratchSize	matcholpreprocess6x6f, NatureDSP_Signal_1003, NatureDSP_Signal_1004, NatureDSP_Signal_1005, NatureDSP_Signal_1006, NatureDSP_Signal_1007, NatureDSP_Signal_1008, NatureDSP_Signal_972
matcholdecomp8x8f_hifi4.o	115	32	matcholdecomp8x8f, matcholdecomp8x8f_getScratchSize	matcholpreprocess8x8f, NatureDSP_Signal_1003, NatureDSP_Signal_1004, NatureDSP_Signal_1005, NatureDSP_Signal_1006, NatureDSP_Signal_1007, NatureDSP_Signal_1008, NatureDSP_Signal_1009, NatureDSP_Signal_1010, NatureDSP_Signal_972
matcholbkwsubst10x10f_hifi4.o	549		matcholbkwsubst10x10f, matcholbkwsubst10x10f_getScratchSize	
matcholbkwsubst4x4f_hifi4.o	148		matcholbkwsubst4x4f, matcholbkwsubst4x4f_getScratchSize	
matcholbkwsubst6x6f_hifi4.o	255		matcholbkwsubst6x6f, matcholbkwsubst6x6f_getScratchSize	

Object file	Code size	Data size	Symbols	
			Global	Referenced
matcholbkwsubst8x8f_hifi4.o	390		matcholbkwsubst8x8f, matcholbkwsubst8x8f_getScratchSize	
matcholfwdsubst10x10f_hifi4.o	470		matcholfwdsubst10x10f, matcholfwdsubst10x10f_getScratchSize	NatureDSP_Signal_1002
matcholfwdsubst4x4f_hifi4.o	131		matcholfwdsubst4x4f, matcholfwdsubst4x4f_getScratchSize	NatureDSP_Signal_1006
matcholfwdsubst6x6f_hifi4.o	185		matcholfwdsubst6x6f, matcholfwdsubst6x6f_getScratchSize	NatureDSP_Signal_1008
matcholfwdsubst8x8f_hifi4.o	338		matcholfwdsubst8x8f, matcholfwdsubst8x8f_getScratchSize	NatureDSP_Signal_1010
matcholmmsesolver10x10f_hifi4.o	124		matcholmmsesolver10x10f, matcholmmsesolver10x10f_getScratchSize	matcholbkwsubst10x10f, matcholbkwsubst10x10f_getScratchSize, matcholdecomp10x10f, matcholdecomp10x10f_getScratchSize, matcholfwdsubst10x10f, matcholfwdsubst10x10f_getScratchSize
matcholmmsesolver4x4f_hifi4.o	113		matcholmmsesolver4x4f, matcholmmsesolver4x4f_getScratchSize	matcholbkwsubst4x4f, matcholbkwsubst4x4f_getScratchSize, matcholdecomp4x4f, matcholdecomp4x4f_getScratchSize, matcholfwdsubst4x4f, matcholfwdsubst4x4f_getScratchSize
matcholmmsesolver6x6f_hifi4.o	121		matcholmmsesolver6x6f, matcholmmsesolver6x6f_getScratchSize	matcholbkwsubst6x6f, matcholbkwsubst6x6f_getScratchSize, matcholdecomp6x6f, matcholdecomp6x6f_getScratchSize, matcholfwdsubst6x6f, matcholfwdsubst6x6f_getScratchSize
matcholmmsesolver8x8f_hifi4.o	124		matcholmmsesolver8x8f, matcholmmsesolver8x8f_getScratchSize	matcholbkwsubst8x8f, matcholbkwsubst8x8f_getScratchSize, matcholdecomp8x8f, matcholdecomp8x8f_getScratchSize, matcholfwdsubst8x8f, matcholfwdsubst8x8f_getScratchSize
matcholpseudoinv10x10f_hifi4.o	528		matcholpseudoinv10x10f, matcholpseudoinv10x10f_getScratchSize	matcholdecomp10x10f, matcholdecomp10x10f_getScratchSize
matcholpseudoinv4x4f_hifi4.o	280		matcholpseudoinv4x4f, matcholpseudoinv4x4f_getScratchSize	matcholdecomp4x4f, matcholdecomp4x4f_getScratchSize
matcholpseudoinv6x6f_hifi4.o	344		matcholpseudoinv6x6f, matcholpseudoinv6x6f_getScratchSize	matcholdecomp6x6f, matcholdecomp6x6f_getScratchSize
matcholpseudoinv8x8f_hifi4.o	427		matcholpseudoinv8x8f, matcholpseudoinv8x8f_getScratchSize	matcholdecomp8x8f, matcholdecomp8x8f_getScratchSize
matcholpreprocess10x10f_hifi4.o	540		matcholpreprocess10x10f, matcholpreprocess10x10f_getScratchSize	
matcholpreprocess4x4f_hifi4.o	333		matcholpreprocess4x4f, matcholpreprocess4x4f_getScratchSize	
matcholpreprocess6x6f_hifi4.o	873		matcholpreprocess6x6f, matcholpreprocess6x6f_getScratchSize	
matcholpreprocess8x8f_hifi4.o	477		matcholpreprocess8x8f, matcholpreprocess8x8f_getScratchSize	
realcholDiagUpdf_hifi4.o	155		NatureDSP_Signal_972	
realcholFwdrec10f_hifi4.o	495		NatureDSP_Signal_1002	
realcholFwdrec1f_hifi4.o	20		NatureDSP_Signal_1003	
realcholFwdrec2f_hifi4.o	43		NatureDSP_Signal_1004	
realcholFwdrec3f_hifi4.o	74		NatureDSP_Signal_1005	
realcholFwdrec4f_hifi4.o	118		NatureDSP_Signal_1006	
realcholFwdrec5f_hifi4.o	169		NatureDSP_Signal_1007	
realcholFwdrec6f_hifi4.o	228		NatureDSP_Signal_1008	
realcholFwdrec7f_hifi4.o	287		NatureDSP_Signal_1009	
realcholFwdrec8f_hifi4.o	350		NatureDSP_Signal_1010	
realcholFwdrec9f_hifi4.o	430		NatureDSP_Signal_1011	

Object file	Code size	Data size	Symbols	
			Global	Referenced
NatureDSP_Signal_complex_id.o		236	NatureDSP_Signal_annotation_scl_complex2invmag, NatureDSP_Signal_annotation_scl_complex2mag, NatureDSP_Signal_annotation_vec_complex2invmag, NatureDSP_Signal_annotation_vec_complex2mag	
NatureDSP_Signal_fft_id.o		5401	NatureDSP_Signal_annotation_dct_16x16, NatureDSP_Signal_annotation_dct_24x24, NatureDSP_Signal_annotation_dct_32x16, NatureDSP_Signal_annotation_dct_32x32, NatureDSP_Signal_annotation_dct2d_8x16, NatureDSP_Signal_annotation_dct4_24x24, NatureDSP_Signal_annotation_dct4_32x16, NatureDSP_Signal_annotation_dct4_32x32, NatureDSP_Signal_annotation_dctf, NatureDSP_Signal_annotation_fft_cplx16x16, NatureDSP_Signal_annotation_fft_cplx16x16_ie, NatureDSP_Signal_annotation_fft_cplx24x24, NatureDSP_Signal_annotation_fft_cplx24x24_ie, NatureDSP_Signal_annotation_fft_cplx32x16, NatureDSP_Signal_annotation_fft_cplx32x16_ie, NatureDSP_Signal_annotation_fft_cplx32x32, NatureDSP_Signal_annotation_fft_cplx32x32_ie, NatureDSP_Signal_annotation_fft_cplxf_ie, NatureDSP_Signal_annotation_fft_real16x16, NatureDSP_Signal_annotation_fft_real16x16_ie, NatureDSP_Signal_annotation_fft_real24x24, NatureDSP_Signal_annotation_fft_real24x24_ie, NatureDSP_Signal_annotation_fft_real24x24_ie_24p, NatureDSP_Signal_annotation_fft_real32x16, NatureDSP_Signal_annotation_fft_real32x16_ie, NatureDSP_Signal_annotation_fft_real32x16_ie_24p, NatureDSP_Signal_annotation_fft_real32x32, NatureDSP_Signal_annotation_fft_real32x32_ie, NatureDSP_Signal_annotation_fft_realf_ie, NatureDSP_Signal_annotation_fft_spectrum16x32, NatureDSP_Signal_annotation_fft_spectrum32x32, NatureDSP_Signal_annotation_fft_spectrumf, NatureDSP_Signal_annotation_idct2d_16x8, NatureDSP_Signal_annotation_ifft_cplx16x16, NatureDSP_Signal_annotation_ifft_cplx16x16_ie, NatureDSP_Signal_annotation_ifft_cplx24x24, NatureDSP_Signal_annotation_ifft_cplx24x24_ie, NatureDSP_Signal_annotation_ifft_cplx32x16, NatureDSP_Signal_annotation_ifft_cplx32x16_ie, NatureDSP_Signal_annotation_ifft_cplx32x32, NatureDSP_Signal_annotation_ifft_cplx32x32_ie, NatureDSP_Signal_annotation_ifft_cplxf_ie, NatureDSP_Signal_annotation_ifft_real16x16, NatureDSP_Signal_annotation_ifft_real16x16_ie, NatureDSP_Signal_annotation_ifft_real24x24, NatureDSP_Signal_annotation_ifft_real24x24_ie, NatureDSP_Signal_annotation_ifft_real24x24_ie_24p, NatureDSP_Signal_annotation_ifft_real32x16, NatureDSP_Signal_annotation_ifft_real32x16_ie, NatureDSP_Signal_annotation_ifft_real32x16_ie_24p, NatureDSP_Signal_annotation_ifft_real32x32, NatureDSP_Signal_annotation_ifft_real32x32_ie, NatureDSP_Signal_annotation_ifft_realf_ie, NatureDSP_Signal_annotation_imdct_24x24, NatureDSP_Signal_annotation_imdct_32x16, NatureDSP_Signal_annotation_imdct_32x32,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_mdct_24x24, NatureDSP_Signal_annotation_mdct_32x16, NatureDSP_Signal_annotation_mdct_32x32, NatureDSP_Signal_annotation_stereo_fft_cplx16x16_ie, NatureDSP_Signal_annotation_stereo_fft_cplx32x16_ie, NatureDSP_Signal_annotation_stereo_fft_cplx32x32_ie, NatureDSP_Signal_annotation_stereo_fft_cplxf_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx16x16_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx32x16_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx32x32_ie, NatureDSP_Signal_annotation_stereo_ifft_cplxf_ie	
NatureDSP_Signal_fir_id.o		9047	NatureDSP_Signal_annotation_bkfir16x16_process, NatureDSP_Signal_annotation_bkfir24x24_process, NatureDSP_Signal_annotation_bkfir24x24p_process, NatureDSP_Signal_annotation_bkfir32x16_process, NatureDSP_Signal_annotation_bkfir32x32_process, NatureDSP_Signal_annotation_bkfir32x32ep_process, NatureDSP_Signal_annotation_bkfira16x16_process, NatureDSP_Signal_annotation_bkfira24x24_process, NatureDSP_Signal_annotation_bkfira32x16_process, NatureDSP_Signal_annotation_bkfira32x32_process, NatureDSP_Signal_annotation_bkfira32x32ep_process, NatureDSP_Signal_annotation_bkfiraf_process, NatureDSP_Signal_annotation_bkfirf_process, NatureDSP_Signal_annotation_conv2d_11x7_16x16, NatureDSP_Signal_annotation_conv2d_11x7_8x16, NatureDSP_Signal_annotation_conv2d_11x7_8x8, NatureDSP_Signal_annotation_conv2d_11x7f, NatureDSP_Signal_annotation_conv2d_3x3_16x16, NatureDSP_Signal_annotation_conv2d_3x3_8x16, NatureDSP_Signal_annotation_conv2d_3x3_8x8, NatureDSP_Signal_annotation_conv2d_3x3f, NatureDSP_Signal_annotation_conv2d_5x5_16x16, NatureDSP_Signal_annotation_conv2d_5x5_8x16, NatureDSP_Signal_annotation_conv2d_5x5_8x8, NatureDSP_Signal_annotation_conv2d_5x5f, NatureDSP_Signal_annotation_cxfir_blms32x32, NatureDSP_Signal_annotation_cxfir_blmsf, NatureDSP_Signal_annotation_cxfir_convol32x16, NatureDSP_Signal_annotation_cxfir_convola32x16, NatureDSP_Signal_annotation_cxfir_xcorr32x32, NatureDSP_Signal_annotation_cxfir_xcorra32x32, NatureDSP_Signal_annotation_cxfir_xcorraf, NatureDSP_Signal_annotation_cxfir_xcorrf, NatureDSP_Signal_annotation_cxfir16x16_process, NatureDSP_Signal_annotation_cxfir24x24_process, NatureDSP_Signal_annotation_cxfir32x16_process, NatureDSP_Signal_annotation_cxfir32x32_process,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_cxfir32x32ep_process, NatureDSP_Signal_annotation_cxfirf_process, NatureDSP_Signal_annotation_fir_acorr16x16, NatureDSP_Signal_annotation_fir_acorr24x24, NatureDSP_Signal_annotation_fir_acorr32x32, NatureDSP_Signal_annotation_fir_acorr32x32ep, NatureDSP_Signal_annotation_fir_acorra16x16, NatureDSP_Signal_annotation_fir_acorra24x24, NatureDSP_Signal_annotation_fir_acorra32x32, NatureDSP_Signal_annotation_fir_acorra32x32ep, 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_convol32x32ep, NatureDSP_Signal_annotation_fir_convola16x16, NatureDSP_Signal_annotation_fir_convola24x24, NatureDSP_Signal_annotation_fir_convola32x16, NatureDSP_Signal_annotation_fir_convola32x32, NatureDSP_Signal_annotation_fir_convola32x32ep, NatureDSP_Signal_annotation_fir_convolaf, NatureDSP_Signal_annotation_fir_convolf, NatureDSP_Signal_annotation_fir_lacorra16x16, NatureDSP_Signal_annotation_fir_lacorra32x32, NatureDSP_Signal_annotation_fir_lconvola16x16, NatureDSP_Signal_annotation_fir_lconvola32x32, NatureDSP_Signal_annotation_fir_lxcorra16x16, NatureDSP_Signal_annotation_fir_lxcorra32x32, NatureDSP_Signal_annotation_fir_xcorr16x16, NatureDSP_Signal_annotation_fir_xcorr24x24, NatureDSP_Signal_annotation_fir_xcorr32x16, NatureDSP_Signal_annotation_fir_xcorr32x32, NatureDSP_Signal_annotation_fir_xcorr32x32ep, NatureDSP_Signal_annotation_fir_xcorra16x16, NatureDSP_Signal_annotation_fir_xcorra24x24, NatureDSP_Signal_annotation_fir_xcorra32x16, NatureDSP_Signal_annotation_fir_xcorra32x32, NatureDSP_Signal_annotation_fir_xcorra32x32ep, NatureDSP_Signal_annotation_fir_xcorraf, NatureDSP_Signal_annotation_fir_xcorrf, NatureDSP_Signal_annotation_firdec16x16_process, NatureDSP_Signal_annotation_firdec24x24_process, NatureDSP_Signal_annotation_firdec32x16_process, NatureDSP_Signal_annotation_firdec32x32_process, NatureDSP_Signal_annotation_firdec32x32ep_process, NatureDSP_Signal_annotation_firdecf_process, NatureDSP_Signal_annotation_firinterp16x16_process, NatureDSP_Signal_annotation_firinterp24x24_process,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_firinterp32x16_process, NatureDSP_Signal_annotation_firinterp32x32_process, NatureDSP_Signal_annotation_firinterp32x32ep_process, NatureDSP_Signal_annotation_firinterpf_process, NatureDSP_Signal_annotation_stereo_bkfir16x16_process, NatureDSP_Signal_annotation_stereo_bkfir32x32_process, NatureDSP_Signal_annotation_stereo_bkfirf_process	
NatureDSP_Signal_fit_id.o		250	NatureDSP_Signal_annotation_vec_poly4_24x24, NatureDSP_Signal_annotation_vec_poly4_32x32, NatureDSP_Signal_annotation_vec_poly4f, NatureDSP_Signal_annotation_vec_poly8_24x24, NatureDSP_Signal_annotation_vec_poly8_32x32, NatureDSP_Signal_annotation_vec_poly8f	
NatureDSP_Signal_iir_id.o		3720	NatureDSP_Signal_annotation_bqciirf_df1, NatureDSP_Signal_annotation_bqciirf_df1_nd, NatureDSP_Signal_annotation_bqriir16x16_df1, NatureDSP_Signal_annotation_bqriir16x16_df1_nd, NatureDSP_Signal_annotation_bqriir16x16_df2, NatureDSP_Signal_annotation_bqriir16x16_df2_nd, NatureDSP_Signal_annotation_bqriir24x24_df1, NatureDSP_Signal_annotation_bqriir24x24_df2, NatureDSP_Signal_annotation_bqriir32x16_df1, NatureDSP_Signal_annotation_bqriir32x16_df1_nd, NatureDSP_Signal_annotation_bqriir32x16_df2, NatureDSP_Signal_annotation_bqriir32x16_df2_nd, NatureDSP_Signal_annotation_bqriir32x32_df1, NatureDSP_Signal_annotation_bqriir32x32_df1_nd, NatureDSP_Signal_annotation_bqriir32x32_df2, NatureDSP_Signal_annotation_bqriir32x32_df2_nd, NatureDSP_Signal_annotation_bqriirf_df1, NatureDSP_Signal_annotation_bqriirf_df1_nd, NatureDSP_Signal_annotation_bqriirf_df2, NatureDSP_Signal_annotation_bqriirf_df2_nd, NatureDSP_Signal_annotation_bqriirf_df2t, NatureDSP_Signal_annotation_bqriirf_df2t_nd, NatureDSP_Signal_annotation_latr16x16_process, NatureDSP_Signal_annotation_latr24x24_process, NatureDSP_Signal_annotation_latr32x16_process, NatureDSP_Signal_annotation_latr32x32_process, NatureDSP_Signal_annotation_latrf_process, NatureDSP_Signal_annotation_stereo_bqriir16x16_df1, NatureDSP_Signal_annotation_stereo_bqriir16x16_df1_nd, NatureDSP_Signal_annotation_stereo_bqriir32x16_df1, NatureDSP_Signal_annotation_stereo_bqriir32x16_df1_nd, NatureDSP_Signal_annotation_stereo_bqriir32x32_df1, NatureDSP_Signal_annotation_stereo_bqriir32x32_df1_nd, NatureDSP_Signal_annotation_stereo_bqriirf_df1, NatureDSP_Signal_annotation_stereo_bqriirf_df1_nd	
NatureDSP_Signal_math_id.o		5053	NatureDSP_Signal_annotation_scl_antilog10_24x24, NatureDSP_Signal_annotation_scl_antilog10_32x32, NatureDSP_Signal_annotation_scl_antilog10f, NatureDSP_Signal_annotation_scl_antilog2_24x24,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_scl_antilog2_32x32, NatureDSP_Signal_annotation_scl_antilog2f, NatureDSP_Signal_annotation_scl_antilogn_24x24, NatureDSP_Signal_annotation_scl_antilogn_32x32, NatureDSP_Signal_annotation_scl_antilognf, NatureDSP_Signal_annotation_scl_atan2_24x24, NatureDSP_Signal_annotation_scl_atan24x24, NatureDSP_Signal_annotation_scl_atan2f, NatureDSP_Signal_annotation_scl_atan32x32, NatureDSP_Signal_annotation_scl_atanf, NatureDSP_Signal_annotation_scl_cosine24x24, NatureDSP_Signal_annotation_scl_cosine32x32, NatureDSP_Signal_annotation_scl_cosinef, NatureDSP_Signal_annotation_scl_divide16x16, NatureDSP_Signal_annotation_scl_divide24x24, NatureDSP_Signal_annotation_scl_divide32x32, NatureDSP_Signal_annotation_scl_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_annotation_scl_log2_24x24, NatureDSP_Signal_annotation_scl_log2_32x32, NatureDSP_Signal_annotation_scl_log2f, NatureDSP_Signal_annotation_scl_logn_24x24, NatureDSP_Signal_annotation_scl_logn_32x32, NatureDSP_Signal_annotation_scl_lognf, NatureDSP_Signal_annotation_scl_powf, 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_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_24x24, NatureDSP_Signal_annotation_vec_antilog10_32x32, NatureDSP_Signal_annotation_vec_antilog10f, NatureDSP_Signal_annotation_vec_antilog2_24x24, NatureDSP_Signal_annotation_vec_antilog2_32x32, NatureDSP_Signal_annotation_vec_antilog2f, NatureDSP_Signal_annotation_vec_antilogn_24x24, NatureDSP_Signal_annotation_vec_antilogn_32x32, NatureDSP_Signal_annotation_vec_antilognf, NatureDSP_Signal_annotation_vec_atan2_24x24, NatureDSP_Signal_annotation_vec_atan24x24, NatureDSP_Signal_annotation_vec_atan2f, NatureDSP_Signal_annotation_vec_atan32x32, NatureDSP_Signal_annotation_vec_atanf, NatureDSP_Signal_annotation_vec_cosine24x24, NatureDSP_Signal_annotation_vec_cosine24x24_	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			fast, NatureDSP_Signal_annotation_vec_cosine32x32, NatureDSP_Signal_annotation_vec_cosine32x32_ fast, NatureDSP_Signal_annotation_vec_cosinef, NatureDSP_Signal_annotation_vec_divide16x16, NatureDSP_Signal_annotation_vec_divide16x16_ fast, NatureDSP_Signal_annotation_vec_divide24x24, NatureDSP_Signal_annotation_vec_divide24x24_ fast, NatureDSP_Signal_annotation_vec_divide32x32, NatureDSP_Signal_annotation_vec_divide32x32_ fast, NatureDSP_Signal_annotation_vec_divide64x32i , 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_lognf, NatureDSP_Signal_annotation_vec_pow_32x32, NatureDSP_Signal_annotation_vec_powf, NatureDSP_Signal_annotation_vec_recip16x16, 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_matinv_id.o		7820	NatureDSP_Signal_annotation_cmatcholbkwsubst 10x10_32x32, NatureDSP_Signal_annotation_cmatcholbkwsubst 10x10f, NatureDSP_Signal_annotation_cmatcholbkwsubst 4x4_32x32, NatureDSP_Signal_annotation_cmatcholbkwsubst 4x4f, NatureDSP_Signal_annotation_cmatcholbkwsubst 6x6_32x32, NatureDSP_Signal_annotation_cmatcholbkwsubst 6x6f, NatureDSP_Signal_annotation_cmatcholbkwsubst 8x8_32x32, NatureDSP_Signal_annotation_cmatcholbkwsubst 8x8f, NatureDSP_Signal_annotation_cmatcholdecomp10	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			x10_32x32, NatureDSP_Signal_annotation_cmatcholdecomp10x10f, NatureDSP_Signal_annotation_cmatcholdecomp4x4_32x32, NatureDSP_Signal_annotation_cmatcholdecomp4x4f, NatureDSP_Signal_annotation_cmatcholdecomp6x6_32x32, NatureDSP_Signal_annotation_cmatcholdecomp6x6f, NatureDSP_Signal_annotation_cmatcholdecomp8x8_32x32, NatureDSP_Signal_annotation_cmatcholdecomp8x8f, NatureDSP_Signal_annotation_cmatcholfwdsubst10x10_32x32, NatureDSP_Signal_annotation_cmatcholfwdsubst10x10f, NatureDSP_Signal_annotation_cmatcholfwdsubst4x4_32x32, NatureDSP_Signal_annotation_cmatcholfwdsubst4x4f, NatureDSP_Signal_annotation_cmatcholfwdsubst6x6_32x32, NatureDSP_Signal_annotation_cmatcholfwdsubst6x6f, NatureDSP_Signal_annotation_cmatcholfwdsubst8x8_32x32, NatureDSP_Signal_annotation_cmatcholfwdsubst8x8f, NatureDSP_Signal_annotation_cmatcholmmsesolver10x10_32x32, NatureDSP_Signal_annotation_cmatcholmmsesolver10x10f, NatureDSP_Signal_annotation_cmatcholmmsesolver4x4_32x32, NatureDSP_Signal_annotation_cmatcholmmsesolver4x4f, NatureDSP_Signal_annotation_cmatcholmmsesolver6x6_32x32, NatureDSP_Signal_annotation_cmatcholmmsesolver6x6f, NatureDSP_Signal_annotation_cmatcholmmsesolver8x8_32x32, NatureDSP_Signal_annotation_cmatcholmmsesolver8x8f, NatureDSP_Signal_annotation_cmatcholpreprocess10x10_32x32, NatureDSP_Signal_annotation_cmatcholpreprocess10x10f, NatureDSP_Signal_annotation_cmatcholpreprocess4x4_32x32, NatureDSP_Signal_annotation_cmatcholpreprocess4x4f, NatureDSP_Signal_annotation_cmatcholpreprocess6x6_32x32, NatureDSP_Signal_annotation_cmatcholpreprocess6x6f, NatureDSP_Signal_annotation_cmatcholpreprocess8x8_32x32, NatureDSP_Signal_annotation_cmatcholpreprocess8x8f, NatureDSP_Signal_annotation_cmatcholpseudoinv10x10_32x32, NatureDSP_Signal_annotation_cmatcholpseudoinv10x10f, NatureDSP_Signal_annotation_cmatcholpseudoinv4x4_32x32, NatureDSP_Signal_annotation_cmatcholpseudoinv4x4f, NatureDSP_Signal_annotation_cmatcholpseudoinv6x6_32x32, NatureDSP_Signal_annotation_cmatcholpseudoinv6x6f, NatureDSP_Signal_annotation_cmatcholpseudoinv8x8_32x32, NatureDSP_Signal_annotation_cmatcholpseudoin	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			v8x8f, NatureDSP_Signal_annotation_cmtx_gjelim10x10_32x32, NatureDSP_Signal_annotation_cmtx_gjelim2x2_32x32, NatureDSP_Signal_annotation_cmtx_gjelim3x3_32x32, NatureDSP_Signal_annotation_cmtx_gjelim4x4_32x32, NatureDSP_Signal_annotation_cmtx_gjelim6x6_32x32, NatureDSP_Signal_annotation_cmtx_gjelim8x8_32x32, NatureDSP_Signal_annotation_cmtx_inv10x10_32x32, NatureDSP_Signal_annotation_cmtx_inv2x2_32x32, NatureDSP_Signal_annotation_cmtx_inv3x3_32x32, NatureDSP_Signal_annotation_cmtx_inv4x4_32x32, NatureDSP_Signal_annotation_cmtx_inv6x6_32x32, NatureDSP_Signal_annotation_cmtx_inv8x8_32x32, NatureDSP_Signal_annotation_matcholbkwsubst10x10_32x32, NatureDSP_Signal_annotation_matcholbkwsubst10x10f, NatureDSP_Signal_annotation_matcholbkwsubst4x4_32x32, NatureDSP_Signal_annotation_matcholbkwsubst4x4f, NatureDSP_Signal_annotation_matcholbkwsubst6x6_32x32, NatureDSP_Signal_annotation_matcholbkwsubst6x6f, NatureDSP_Signal_annotation_matcholbkwsubst8x8_32x32, NatureDSP_Signal_annotation_matcholbkwsubst8x8f, NatureDSP_Signal_annotation_matcholdecomp10x10_32x32, NatureDSP_Signal_annotation_matcholdecomp10x10f, NatureDSP_Signal_annotation_matcholdecomp4x4_32x32, NatureDSP_Signal_annotation_matcholdecomp4x4f, NatureDSP_Signal_annotation_matcholdecomp6x6_32x32, NatureDSP_Signal_annotation_matcholdecomp6x6f, NatureDSP_Signal_annotation_matcholdecomp8x8_32x32, NatureDSP_Signal_annotation_matcholdecomp8x8f, NatureDSP_Signal_annotation_matcholfwdsubst10x10_32x32, NatureDSP_Signal_annotation_matcholfwdsubst10x10f, NatureDSP_Signal_annotation_matcholfwdsubst4x4_32x32, NatureDSP_Signal_annotation_matcholfwdsubst4x4f, NatureDSP_Signal_annotation_matcholfwdsubst6x6_32x32, NatureDSP_Signal_annotation_matcholfwdsubst6x6f, NatureDSP_Signal_annotation_matcholfwdsubst8x8_32x32, NatureDSP_Signal_annotation_matcholfwdsubst8x8f, NatureDSP_Signal_annotation_matcholmmsesolver10x10_32x32, NatureDSP_Signal_annotation_matcholmmsesolver10x10f, NatureDSP_Signal_annotation_matcholmmsesolver4x4_32x32,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_matcholmmsesolver4x4f, NatureDSP_Signal_annotation_matcholmmsesolver6x6_32x32, NatureDSP_Signal_annotation_matcholmmsesolver6x6f, NatureDSP_Signal_annotation_matcholmmsesolver8x8_32x32, NatureDSP_Signal_annotation_matcholmmsesolver8x8f, NatureDSP_Signal_annotation_matcholpreprocess10x10_32x32, NatureDSP_Signal_annotation_matcholpreprocess10x10f, NatureDSP_Signal_annotation_matcholpreprocess4x4_32x32, NatureDSP_Signal_annotation_matcholpreprocess4x4f, NatureDSP_Signal_annotation_matcholpreprocess6x6_32x32, NatureDSP_Signal_annotation_matcholpreprocess6x6f, NatureDSP_Signal_annotation_matcholpreprocess8x8_32x32, NatureDSP_Signal_annotation_matcholpreprocess8x8f, NatureDSP_Signal_annotation_matcholpseudoinv10x10_32x32, NatureDSP_Signal_annotation_matcholpseudoinv10x10f, NatureDSP_Signal_annotation_matcholpseudoinv4x4_32x32, NatureDSP_Signal_annotation_matcholpseudoinv4x4f, NatureDSP_Signal_annotation_matcholpseudoinv6x6_32x32, NatureDSP_Signal_annotation_matcholpseudoinv6x6f, NatureDSP_Signal_annotation_matcholpseudoinv8x8_32x32, NatureDSP_Signal_annotation_matcholpseudoinv8x8f, NatureDSP_Signal_annotation_mtx_gjelim10x10_32x32, NatureDSP_Signal_annotation_mtx_gjelim2x2_32x32, NatureDSP_Signal_annotation_mtx_gjelim3x3_32x32, NatureDSP_Signal_annotation_mtx_gjelim4x4_32x32, NatureDSP_Signal_annotation_mtx_gjelim6x6_32x32, NatureDSP_Signal_annotation_mtx_gjelim8x8_32x32, NatureDSP_Signal_annotation_mtx_inv10x10_32x32, 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, NatureDSP_Signal_annotation_mtx_inv6x6_32x32, NatureDSP_Signal_annotation_mtx_inv6x6f, NatureDSP_Signal_annotation_mtx_inv8x8_32x32, NatureDSP_Signal_annotation_mtx_inv8x8f	
NatureDSP_Signal_matop_id.o		1661	NatureDSP_Signal_annotation_mtx_mpy16x16, NatureDSP_Signal_annotation_mtx_mpy16x16_fast, NatureDSP_Signal_annotation_mtx_mpy24x24, NatureDSP_Signal_annotation_mtx_mpy24x24_fast, NatureDSP_Signal_annotation_mtx_mpy32x32, NatureDSP_Signal_annotation_mtx_mpy32x32_fast, NatureDSP_Signal_annotation_mtx_mpy8x16, NatureDSP_Signal_annotation_mtx_mpy8x16_fast, NatureDSP_Signal_annotation_mtx_mpy8x8, NatureDSP_Signal_annotation_mtx_mpy8x8_fast, NatureDSP_Signal_annotation_mtx_mpyf,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_mtx_mpyf_fast, NatureDSP_Signal_annotation_mtx_mpyt16x16, NatureDSP_Signal_annotation_mtx_mpyt16x16_fast, NatureDSP_Signal_annotation_mtx_mpyt32x32, NatureDSP_Signal_annotation_mtx_mpyt32x32_fast, NatureDSP_Signal_annotation_mtx_mpyt8x16, NatureDSP_Signal_annotation_mtx_mpyt8x16_fast, 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_transpose16x16, NatureDSP_Signal_annotation_mtx_transpose16x16_fast, NatureDSP_Signal_annotation_mtx_transpose32x32, NatureDSP_Signal_annotation_mtx_transpose32x32_fast, NatureDSP_Signal_annotation_mtx_transpose8x8, NatureDSP_Signal_annotation_mtx_transpose8x8_fast, NatureDSP_Signal_annotation_mtx_transposef, NatureDSP_Signal_annotation_mtx_transposef_fast, NatureDSP_Signal_annotation_mtx_vecmpy16x16, NatureDSP_Signal_annotation_mtx_vecmpy16x16_fast, NatureDSP_Signal_annotation_mtx_vecmpy24x24, NatureDSP_Signal_annotation_mtx_vecmpy24x24_fast, NatureDSP_Signal_annotation_mtx_vecmpy32x32, NatureDSP_Signal_annotation_mtx_vecmpy32x32_fast, NatureDSP_Signal_annotation_mtx_vecmpy8x16, NatureDSP_Signal_annotation_mtx_vecmpy8x16_fast, NatureDSP_Signal_annotation_mtx_vecmpy8x8, NatureDSP_Signal_annotation_mtx_vecmpy8x8_fast, NatureDSP_Signal_annotation_mtx_vecmpyf, NatureDSP_Signal_annotation_mtx_vecmpyf_fast	
NatureDSP_Signal_vector_id.o		3363	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_fast, NatureDSP_Signal_annotation_vec_add32x32, NatureDSP_Signal_annotation_vec_add32x32_fast, NatureDSP_Signal_annotation_vec_addf, NatureDSP_Signal_annotation_vec_bexp16, NatureDSP_Signal_annotation_vec_bexp16_fast, NatureDSP_Signal_annotation_vec_bexp24_fast, NatureDSP_Signal_annotation_vec_bexp32, NatureDSP_Signal_annotation_vec_bexp32_fast, NatureDSP_Signal_annotation_vec_bexpf, NatureDSP_Signal_annotation_vec_dot_32x16ef, NatureDSP_Signal_annotation_vec_dot_batch16x16, NatureDSP_Signal_annotation_vec_dot_batch16x16_fast, NatureDSP_Signal_annotation_vec_dot_batch8x16, NatureDSP_Signal_annotation_vec_dot_batch8x16_fast, NatureDSP_Signal_annotation_vec_dot_batch8x8, NatureDSP_Signal_annotation_vec_dot_batch8x8_fast, NatureDSP_Signal_annotation_vec_dot_batchf, NatureDSP_Signal_annotation_vec_dot_batchf_fast, NatureDSP_Signal_annotation_vec_dot16x16,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_vec_dot16x16_fast, NatureDSP_Signal_annotation_vec_dot32x16, NatureDSP_Signal_annotation_vec_dot32x16_fast, NatureDSP_Signal_annotation_vec_dot32x32, NatureDSP_Signal_annotation_vec_dot32x32_fast, NatureDSP_Signal_annotation_vec_dot64x32, NatureDSP_Signal_annotation_vec_dot64x32_fast, NatureDSP_Signal_annotation_vec_dot64x64, NatureDSP_Signal_annotation_vec_dot64x64_fast, NatureDSP_Signal_annotation_vec_dot64x64i, NatureDSP_Signal_annotation_vec_dot64x64i_fast, NatureDSP_Signal_annotation_vec_dotf, NatureDSP_Signal_annotation_vec_mac_32x16ef, NatureDSP_Signal_annotation_vec_max16x16, NatureDSP_Signal_annotation_vec_max16x16_fast, NatureDSP_Signal_annotation_vec_max32x32, NatureDSP_Signal_annotation_vec_max32x32_fast, NatureDSP_Signal_annotation_vec_maxf, NatureDSP_Signal_annotation_vec_min16x16, NatureDSP_Signal_annotation_vec_min16x16_fast, NatureDSP_Signal_annotation_vec_min32x32, NatureDSP_Signal_annotation_vec_min32x32_fast, NatureDSP_Signal_annotation_vec_minf, NatureDSP_Signal_annotation_vec_mul_32x16ef, NatureDSP_Signal_annotation_vec_power16x16, NatureDSP_Signal_annotation_vec_power16x16_fast, NatureDSP_Signal_annotation_vec_power32x32, NatureDSP_Signal_annotation_vec_power32x32_fast, NatureDSP_Signal_annotation_vec_powerf, NatureDSP_Signal_annotation_vec_scale_sf, NatureDSP_Signal_annotation_vec_scale16x16, NatureDSP_Signal_annotation_vec_scale16x16_fast, NatureDSP_Signal_annotation_vec_scale32x24_fast, NatureDSP_Signal_annotation_vec_scale32x32, NatureDSP_Signal_annotation_vec_scale32x32_fast, NatureDSP_Signal_annotation_vec_scalef, NatureDSP_Signal_annotation_vec_shift16x16, NatureDSP_Signal_annotation_vec_shift16x16_fast, NatureDSP_Signal_annotation_vec_shift32x32, NatureDSP_Signal_annotation_vec_shift32x32_fast, NatureDSP_Signal_annotation_vec_shiftf	
NatureDSP_Signal_mfcc_id.o		384	NatureDSP_Signal_annotation_logmel32x32_process, NatureDSP_Signal_annotation_logmelf_process, NatureDSP_Signal_annotation_mfcc32x32_process, NatureDSP_Signal_annotation_mfccf_process	
NatureDSP_Signal_img_id.o		2535	NatureDSP_Signal_annotation_imgconvert_rgbyuv, NatureDSP_Signal_annotation_imgconvert_rgbyuv16, NatureDSP_Signal_annotation_imgconvert_yuvrgb, NatureDSP_Signal_annotation_imgconvert_yuvrgb16, NatureDSP_Signal_annotation_imgdeinterleave, NatureDSP_Signal_annotation_imgdeinterleave16, NatureDSP_Signal_annotation_imgfastconvert_rgbyuv, NatureDSP_Signal_annotation_imgfastconvert_rgbyuv16, NatureDSP_Signal_annotation_imgfastconvert_yuvrgb, NatureDSP_Signal_annotation_imgfastconvert_yuvrgb16, NatureDSP_Signal_annotation_imgfastdeinterleave, NatureDSP_Signal_annotation_imgfastdeinterleave16, NatureDSP_Signal_annotation_imgfasthist_gs16, NatureDSP_Signal_annotation_imgfasthist_gs8, NatureDSP_Signal_annotation_imgfasthist_gu8,	

Object file	Code size	Data size	Symbols	
			Global	Referenced
			NatureDSP_Signal_annotation_imgfastinterleave, NatureDSP_Signal_annotation_imgfastinterleave16, NatureDSP_Signal_annotation_imgfastnorm_gs16, NatureDSP_Signal_annotation_imgfastnorm_gs16_nonlinear, NatureDSP_Signal_annotation_imgfastnorm_gs8, NatureDSP_Signal_annotation_imgfastnorm_gs8_nonlinear, NatureDSP_Signal_annotation_imgfastnorm_gu8, NatureDSP_Signal_annotation_imgfastnorm_gu8_nonlinear, NatureDSP_Signal_annotation_imgfastpad_gs16, NatureDSP_Signal_annotation_imgfastpad_gs8, NatureDSP_Signal_annotation_imgfastpad_gu8, NatureDSP_Signal_annotation_imgfastresize_gs16_process, NatureDSP_Signal_annotation_imgfastresize_gs8_process, NatureDSP_Signal_annotation_imgfastresize_gu8_process, NatureDSP_Signal_annotation_imgfastrotate_gs16_process, NatureDSP_Signal_annotation_imgfastrotate_gs8_process, NatureDSP_Signal_annotation_imgfastrotate_gu8_process, NatureDSP_Signal_annotation_imgfft_gs16, NatureDSP_Signal_annotation_imgfft_gs8, NatureDSP_Signal_annotation_imgfft_gu8, NatureDSP_Signal_annotation_imghist_gs16, NatureDSP_Signal_annotation_imghist_gs8, NatureDSP_Signal_annotation_imghist_gu8, NatureDSP_Signal_annotation_imgifft_gs16, NatureDSP_Signal_annotation_imgifft_gs8, NatureDSP_Signal_annotation_imgifft_gu8, NatureDSP_Signal_annotation_imginterleave, NatureDSP_Signal_annotation_imginterleave16, NatureDSP_Signal_annotation_imgnorm_gs16, NatureDSP_Signal_annotation_imgnorm_gs16_nonlinear, NatureDSP_Signal_annotation_imgnorm_gs8, NatureDSP_Signal_annotation_imgnorm_gs8_nonlinear, NatureDSP_Signal_annotation_imgnorm_gu8, NatureDSP_Signal_annotation_imgnorm_gu8_nonlinear, NatureDSP_Signal_annotation_imgpad_gs16, NatureDSP_Signal_annotation_imgpad_gs8, NatureDSP_Signal_annotation_imgpad_gu8, NatureDSP_Signal_annotation_imgresize_gs16_process, NatureDSP_Signal_annotation_imgresize_gs8_process, NatureDSP_Signal_annotation_imgresize_gu8_process, NatureDSP_Signal_annotation_imgrotate_gs16_process, NatureDSP_Signal_annotation_imgrotate_gs8_process, NatureDSP_Signal_annotation_imgrotate_gu8_process	
NatureDSP_Signal_fe.o	249		NatureDSP_Signal_feclearexcept, NatureDSP_Signal_feraiseexcept, NatureDSP_Signal_fetestexcept	
NatureDSP_Signal_isa_opt.o	28		NatureDSP_Signal_get_isa_opt	
feature.o	10		__NatureDSP_Signal_isPresent	
math_stdlib.o, logmel32x32_hifi4.o	2618	68	logmel32x32_alloc, logmel32x32_init	memset, NatureDSP_Signal_806, NatureDSP_Signal_807, NatureDSP_Signal_809, vec_recip32x32
logmel32x32_process_hifi4.o	3220	42	logmel32x32_getScratchSize, logmel32x32_process	NatureDSP_Signal_010, NatureDSP_Signal_806, NatureDSP_Signal_807, vec_bexp32,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				vec_shift32x32
logmel_common_hifi4.o	323		NatureDSP_Signal_806, NatureDSP_Signal_807, NatureDSP_Signal_809	vec_recip32x32
logmelf_hifi4.o	1690		logmelf_alloc, logmelf_init	memset, NatureDSP_Signal_806, NatureDSP_Signal_807, scl_antilog10f, scl_antilog2f, scl_int2float, scl_log10f, scl_log2f, vec_recip32x32
logmelf_process_hifi4.o	2031	4	logmelf_getScratchSize, logmelf_process	NatureDSP_Signal_244, NatureDSP_Signal_806, NatureDSP_Signal_807, vec_log10f, vec_lognf
mfcc32x32_compDctMatrix_hifi4.o	1285		NatureDSP_Signal_810	NatureDSP_Signal_816, scl_sqrt64x32, vec_recip32x32
mfcc32x32_compLifterCoefs_hifi4.o	1072		NatureDSP_Signal_811	NatureDSP_Signal_816, vec_recip32x32
mfcc32x32_hifi4.o	789		mfcc32x32_alloc, mfcc32x32_init	logmel32x32_alloc, logmel32x32_init, memset, mtx_vecmpy32x32, mtx_vecmpy32x32_fast, NatureDSP_Signal_810, NatureDSP_Signal_811
mfcc32x32_preemph_hifi4.o	322		NatureDSP_Signal_814	
mfcc32x32_process_hifi4.o	839		mfcc32x32_getScratchSize, mfcc32x32_process	logmel32x32_getScratchSize, logmel32x32_process, memset, NatureDSP_Signal_814, NatureDSP_Signal_815, NatureDSP_Signal_817, vec_shift32x32
mfcc32x32_remdc_hifi4.o	189		NatureDSP_Signal_815	vec_recip32x32
mfcc32x32_tbl.o		192	NatureDSP_Signal_816	
mfcc32x32_vecmpy_hifi4.o	161		NatureDSP_Signal_817	
mfcc_common_hifi4.o	84		mfcc_getDefaultParams	memset
mfccf_compDctMatrix_hifi4.o	519		NatureDSP_Signal_812	NatureDSP_Signal_249, scl_cosinef
mfccf_compLifterCoefs_hifi4.o	256		NatureDSP_Signal_813	NatureDSP_Signal_249, scl_sinef
mfccf_hifi4.o	734		mfccf_alloc, mfccf_init	logmelf_alloc, logmelf_init, memset, mtx_vecmpyf, mtx_vecmpyf_fast, NatureDSP_Signal_812, NatureDSP_Signal_813
mfccf_preemph_hifi4.o	320		NatureDSP_Signal_818	
mfccf_process_hifi4.o	722		mfccf_getScratchSize, mfccf_process	logmelf_getScratchSize, logmelf_process, memset, NatureDSP_Signal_818, NatureDSP_Signal_819, NatureDSP_Signal_820
mfccf_remdc_hifi4.o	843		NatureDSP_Signal_819	
mfccf_vecmpy_hifi4.o	282		NatureDSP_Signal_820	
version.o	38	11	NatureDSP_Signal_get_library_api_version, NatureDSP_Signal_get_library_version	strncpy