

# NatureDSP Signal for HiFi4

**Digital Signal Processing** 

**Performance data** 

Library Release 4.1.0 API Revision 4.30

IntegrIT, Limited <a href="http://www.integrit.com/support@integrit.com">http://www.integrit.com/support@integrit.com</a> Tel: +7 495 545 46 42

## Contents

General Settings and Requirements	3
Performance Briefs	3
Functions Performance	27
Functions Code and Data Size	75

#### **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.

		Invocation	Cycles Measurements
Function Name	Description	parameters	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)

		Invocation	Cycles Measurements
Function Name	Description	parameters	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 proces	Fast Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit		
s	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 proce	Real FIR filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-bit		
ss ss	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)
	Fast Complex Block FIR Filter (32-bit data,		
cxfir32x32_process	32-bit coefficients, 32-bit outputs) Fast Complex Block FIR Filter (32-bit data,	N: 80; M: 128	10817 (3.8 MACs/cycle)
cxfir32x32ep_proces	32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 80; M: 128	10918 (3.8 MACs/cycle)
stereo_bkfir16x16_p	Fast Real FIR Stereo filter (16-bit data, 16-		
rocess stereo_bkfir32x32_p	bit coefficients, 16-bit outputs) Fast Real FIR Stereo filter (32-bit data, 32-	N: 80; M: 256	6112 (6.7 MACs/cycle)
rocess	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 stereo bkfirf proce	Fast Real FIR filter (floating point data) Fast Real FIR Stereo filter (floating point	N: 512; M: 32	7693 (2.1 MACs/cycle)
ss	data) Fast Complex Block FIR Filter (floating point	N: 512; M: 32	17957 (1.8 MACs/cycle)
cxfirf_process	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)
	Decimating Block Real FIR Filter (16-bit data,	N: 1024; M:	
firdec16x16_process	16-bit coefficients, 16-bit outputs)  Decimating Block Real FIR Filter (32-bit data,	256; D: 4 N: 1024; M:	39199 (6.7 MACs/cycle)
firdec32x16_process	16-bit coefficients, 32-bit outputs)  Decimating Block Real FIR Filter (32-bit data,	256; D: 2 N: 1024; M:	38949 (6.7 MACs/cycle)
firdec32x16_process	16-bit coefficients, 32-bit outputs)	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)
	Decimating Block Real FIR Filter (32-bit data,	N: 1024; M:	
firdec32x32_process	32-bit coefficients, 32-bit outputs)  Decimating Block Real FIR Filter (32-bit data,	256; D: 4	74271 (3.5 MACs/cycle)
firdec32x32ep_proce ss	32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate computations	N: 1024; M: 256; D: 2	72609 (3.6 MACs/cycle)
	Decimating Block Real FIR Filter (32-bit data,		72009 (3.0 MACS/CYCIE)
firdec32x32ep_proce ss	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 proce	Decimating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs) using 72-	N: 1024; M:	
ss ss	bit accumulator for intermediate computations	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)
	Decimating Block Real FIR Filter (floating	N: 1024; M:	
firdecf_process Interpolation	point data)	256; D: 4	114714 (2.3 MACs/cycle)
firinterp16x16_proc	Interpolating Block Real FIR Filter (16-bit	N: 1024; M:	
ess firinterp16x16 proc	data, 16-bit coefficients, 16-bit outputs)  Interpolating Block Real FIR Filter (16-bit	256; D: 2 N: 1024; M:	80539 (6.5 MACs/cycle)
ess firinterp16x16 proc	data, 16-bit coefficients, 16-bit outputs) Interpolating Block Real FIR Filter (16-bit	256; D: 3 N: 1024; M:	121957 (6.4 MACs/cycle)
ess	data, 16-bit coefficients, 16-bit outputs)	256; D: 4	161445 (6.5 MACs/cycle)
firinterp32x16_proc ess	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)

			Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
firinterp32x16 proc	Interpolating Block Real FIR Filter (32-bit	N: 1024; M:	
ess	data, 16-bit coefficients, 32-bit outputs)	256; D: 3	116911 (6.7 MACs/cycle)
firinterp32x16_proc ess	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 proc	Interpolating Block Real FIR Filter (32-bit	N: 1024; M:	133940 (0.7 MACS/CYCIE)
ess	data, 32-bit coefficients, 32-bit outputs)	256; D: 2	139816 (3.7 MACs/cycle)
firinterp32x32_proc	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)	N: 1024; M: 256; D: 3	21.62.61 (2.6 M2.65 /515)
ess firinterp32x32 proc	Interpolating Block Real FIR Filter (32-bit	N: 1024; M:	216361 (3.6 MACs/cycle)
ess	data, 32-bit coefficients, 32-bit outputs)	256; D: 4	287017 (3.7 MACs/cycle)
	Interpolating Block Real FIR Filter (32-bit data, 32-bit coefficients, 32-bit outputs)		
firinterp32x32ep pr	using 72-bit accumulator for intermediate	N: 1024; M:	
ocess	computations	256; D: 2	142116 (3.7 MACs/cycle)
	Interpolating Block Real FIR Filter (32-bit		
firinterp32x32ep pr	data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate	N: 1024; M:	
ocess	computations	256; D: 3	219562 (3.6 MACs/cycle)
	Interpolating Block Real FIR Filter (32-bit		
firinterp32x32ep pr	data, 32-bit coefficients, 32-bit outputs) using 72-bit accumulator for intermediate	N: 1024; M:	
ocess	computations	256; D: 4	292392 (3.6 MACs/cycle)
61-1-1	Interpolating Block Real FIR Filter (floating	N: 1024; M:	124205 (2.0.1730)
firinterpf_process	point data)  Interpolating Block Real FIR Filter (floating	256; D: 2 N: 1024; M:	134295 (3.9 MACs/cycle)
firinterpf_process	point data)	256; D: 3	221465 (3.6 MACs/cycle)
	Interpolating Block Real FIR Filter (floating	N: 1024; M:	0.00000 (0.0000 (0.0000)
firinterpf_process Correlation.	point data)	256; D: 4	269082 (3.9 MACs/cycle)
Convolution,			
Despreading, LMS			
fir convol16x16	Fast Circular Convolution (16x16-bit data, 16-bit outputs)	N: 256; M: 80	3519 (5.8 MACs/cycle)
TII_CONVOITONIO	Fast Circular Convolution (32x16-bit data, 32-	N. 2307 II. 00	3313 (3.0 Imios/eyele)
fir_convol32x16	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)
TII_CONVOISZASZ	Fast Circular Convolution (32x32-bit data, 32-	N. 230, M. 00	3334 (3.7 PACS/CYCLE)
	bit outputs) using 72-bit accumulator for		
fir_convol32x32ep	intermediate computations Circular Convolution (16x16-bit data, 16-bit	N: 256; M: 80	6418 (3.2 MACs/cycle)
fir_convola16x16	outputs)	N=256; M=80	3867 (5.3 MACs/cycle)
	Circular Convolution (32x16-bit data, 32-bit		
fir_convola32x16	outputs) Circular Convolution (32x32-bit data, 32-bit	N: 256; M: 80	4003 (5.1 MACs/cycle)
fir convola32x32	outputs)	N=256; M=80	5905 (3.5 MACs/cycle)
	Circular Convolution (32x32-bit data, 32-bit		
fir convola32x32ep	outputs) using 72-bit accumulator for intermediate computations	N=256; M=80	6580 (3.1 MACs/cycle)
111_00110110110101	Fast Circular Convolution (32x16-bit complex		
cxfir_convol32x16	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)
_	Linear Convolution (16x16-bit data, 16-bit		
fir_lconvola16x16	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)
111_10011001432X32	Fast Circular Correlation (16x16-bit data, 16-	N-250, N-00	11312 (1.7 FIACS/ CYCLE)
fir_xcorr16x16	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)
111_xco1132x10	Fast Circular Correlation (32x32-bit data, 32-	N. 230, M. 00	3301 (3.0 PACS/CYCIE)
fir_xcorr32x32	bit outputs)	N: 256; M: 80	5578 (3.7 MACs/cycle)
	Fast Circular Correlation (32x32-bit data, 32-bit outputs) using 72-bit accumulator for		
fir_xcorr32x32ep	intermediate computations	N: 256; M: 80	6471 (3.2 MACs/cycle)
	Fast Circular Correlation (32x32-bit complex	N. 050 M 00	21251 (2.0 922)
cxfir_xcorr32x32	data, 32-bit complex outputs)  Circular Correlation (16x16-bit data, 16-bit	N: 256; M: 80	21251 (3.9 MACs/cycle)
fir_xcorra16x16	outputs)	N: 256; M: 80	3869 (5.3 MACs/cycle)
61	Circular Correlation (32x16-bit data, 32-bit	N. 056 10 00	4027 (5.1 ) (5.2 )
fir_xcorra32x16	outputs) Circular Correlation (32x32-bit data, 32-bit	N: 256; M: 80	4037 (5.1 MACs/cycle)
fir_xcorra32x32	outputs) Circular Correlation (32x32-bit data, 32-bit outputs)	N: 256; M: 80	5974 (3.4 MACs/cycle)
fir_xcorra32x32ep	outputs) using 72-bit accumulator for	N: 256; M: 80	6644 (3.1 MACs/cycle)

		I	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
	intermediate computations		
	Linear Correlation (16x16-bit data, 16-bit		
fir_lxcorra16x16	outputs) Linear Correlation (32x32-bit data, 32-bit	N=256; M=80	4212 (4.9 MACs/cycle)
fir_lxcorra32x32	outputs) Fast Circular Autocorrelation (16-bit data,	N=256; M=80	11912 (1.7 MACs/cycle)
fir_acorr16x16	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)
51	Fast Circular Autocorrelation (32-bit data, 32-bit outputs) using 72-bit accumulator for	N 056	17607 (2.7. M20./
fir_acorr32x32ep	intermediate computations  Circular Autocorrelation (16-bit data, 16-bit	N: 256	17607 (3.7 MACs/cycle)
fir_acorra16x16	outputs) Circular Autocorrelation (32-bit data, 32-bit	N=256	9633 (6.8 MACs/cycle)
fir_acorra32x32	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)
_	Linear Autocorrelation (16-bit data, 16-bit		
fir_lacorra16x16	outputs) Linear Autocorrelation (32-bit data, 32-bit	N=256	5259 (6.2 MACs/cycle)
fir_lacorra32x32	outputs)	N=256	17886 (1.8 MACs/cycle)
	Blockwise Adaptive LMS Algorithm for Real Data (16-bit coefficients, 16-bit data, 16-bit		
fir_blms16x16	output)  Blockwise Adaptive LMS Algorithm for Real Data	N: 80; M: 128	3732 (5.5 MACs/cycle)
	(32-bit coefficients, 16-bit data, 16-bit		
fir_blms16x32	output)  Blockwise Adaptive LMS Algorithm for Real Data	N: 80; M: 128	3598 (5.7 MACs/cycle)
6: 11 20 20	(32-bit coefficients, 32-bit data, 32-bit		5004 (0.6 1004 ( ) )
fir_blms32x32	output)  Blockwise Adaptive LMS Algorithm for Real Data	N: 80; M: 128	5684 (3.6 MACs/cycle)
	(32-bit coefficients, 32-bit data, 32-bit output) using 72-bit accumulator for		
fir_blms32x32ep	intermediate computations	N: 80; M: 128	6217 (3.3 MACs/cycle)
	Blockwise Adaptive LMS Algorithm for Complex Data (32-bit coefficients, 32-bit data, 32-bit		
cxfir_blms32x32	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)
_	Circular Correlation (complex floating point		
cxfir_xcorrf	data)	N: 256; M: 80	21637 (3.8 MACs/cycle)
fir_xcorraf	Circular Correlation (floating point data)  Circular Correlation (complex floating point	N: 256; M: 80	7507 (2.7 MACs/cycle)
cxfir_xcorraf	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)
	Blockwise Adaptive LMS Algorithm for Complex		
cxfir_blmsf 2D convolution	Data (floating point data)	N: 80; M: 128	21562 (3.8 MACs/cycle)
2D CONVOLUCION	2D Convolution ( 3x3 8-bit kernel, 8-bit data	M=3,N=3,P=256,	
conv2d_3x3_8x8	) 2D Convolution (5x5 8-bit kernel, 8-bit data	Q=256 M=5,N=5,P=256,	173167 (3.4 MACs/cycle)
conv2d_5x5_8x8	)	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)
	2D Convolution (5x5 8-bit kernel, 16-bit data	M=5,N=5,P=256,	
conv2d_5x5_8x16	2D Convolution ( 11x7 8-bit kernel, 16-bit	Q=256 M=11,N=7,P=256	483476 (3.4 MACs/cycle)
conv2d_11x7_8x16	data ) 2D Convolution ( 3x3 16-bit kernel, 16-bit	,Q=256 M=3,N=3,P=256,	849330 (5.9 MACs/cycle)
conv2d_3x3_16x16	data )	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)
	<u> </u>	1	

			Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
conv2d 11x7 16x16	2D Convolution ( 11x7 16-bit kernel, 16-bit data )	M=11, N=7, P=256	849272 (5.9 MACs/cycle)
conv2d 3x3f	2D Convolution ( 3x3 kernel, floating point data )	M=3, N=3, P=128, O=256	169992 (1.7 MACs/cycle)
conv2d 5x5f	2D Convolution ( 5x5 kernel, floating point data )	M=5, N=5, P=128, O=256	406588 (2.0 MACs/cycle)
_	2D Convolution ( 11x7 kernel, floating point	M=11, N=7, P=128	_
conv2d_11x7f	data )	,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)
	Bi-quad Real Block IIR, DFII (16-bit data, 16-bit coefficients, 16-bit intermediate stage	N=256, M=8,	
bqriir16x16_df2	outputs) Bi-quad Real Block IIR, DFI (32-bit data, 16-	gain=1	4896 (2.4 cycles/(biquad*pts)
bgriir32x16 df1	bit coefficients, 32-bit intermediate stage outputs)	N=256, M=8, gain=1	3461 (1.7 cycles/(biquad*pts)
	Bi-quad Real Block IIR, DFII (32-bit data, 16- bit coefficients, 32-bit intermediate stage	N=256, M=8,	oran (arr. ogazes, (arquae pee)
bqriir32x16_df2	outputs)  Bi-quad Real Block IIR, DFI (32-bit data, 32-	gain=1	3933 (1.9 cycles/(biquad*pts)
bqriir32x32_df1	<pre>bit coefficients, 32-bit intermediate stage outputs)</pre>	N=256, M=8, gain=1	3396 (1.7 cycles/(biquad*pts)
1, 11, 20, 20, 150	Bi-quad Real Block IIR, DFII (32-bit data, 32-bit coefficients, 32-bit intermediate stage	N=256, M=8,	5002 (0.0 1 (4) 1
bqriir32x32_df2	outputs) Bi-quad Stereo Block Stereo IIR, DFI (16-bit	gain=1	5923 (2.9 cycles/(biquad*pts)
stereo_bqriir16x16_ df1	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	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 32-bit coefficients, 32-bit intermediate	N=256, M=8,	
df1	stage outputs) Bi-quad Real Block IIR, DFI (floating point	gain=1	8425 (4.1 cycles/(biquad*pts)
bqriirf_df1	data)  Bi-quad Real Block IIR, DFII (floating point	N=512, M=16	22090 (2.7 cycles/(biquad*pts)
bqriirf_df2	data)  Bi-quad Real Block IIR, DFIIt (floating point data)	N=512, M=16	19919 (2.4 cycles/(biquad*pts)
bqriirf_df2t	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			
	Bi-quad Real Block IIR, DFI (16-bit data, 16-bit coefficients, 16-bit intermediate stage	N=256, M=8,	
bqriir16x16_df1_nd	outputs), no delay version Bi-quad Real Block IIR, DFII (16-bit data, 16-	gain=1	4960 (2.4 cycles/(biquad*pts)
bgriir16x16 df2 nd	bit coefficients, 16-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	5284 (2.6 cycles/(biquad*pts)
- · · · · · · · · · · · · · · · · · · ·	Bi-quad Real Block IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate stage	N=256, M=8,	
bqriir32x16_df1_nd	outputs), no delay version  Bi-quad Real Block IIR, DFII (32-bit data, 16-	gain=1	3451 (1.7 cycles/(biquad*pts)
hariir20v16 df0 nd	bit coefficients, 32-bit intermediate stage outputs), no delay version	N=256, M=8, gain=1	3922 (1.9 cycles/(biquad*pts)
bqriir32x16_df2_nd	Bi-quad Real Block IIR, DFI (32-bit data, 32-		3922 (1.9 Cycles/(biquau~pts)
bqriir32x32_df1_nd	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 bgriir32x16	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 16-bit coefficients, 32-bit intermediate	N=256, M=8,	
df1_nd	stage outputs) no delay version	gain=1	9624 (4.7 cycles/(biquad*pts)

		I	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
stereo bgriir32x32	Bi-quad Stereo Block Stereo IIR, DFI (32-bit data, 32-bit coefficients, 32-bit intermediate	N=256, M=8,	
df1_nd	stage outputs) no delay version	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)
bgriirf df2 nd	Bi-quad Real Block IIR, DFII (floating point data) no delay version	N=512, M=16	33577 (4.1 cycles/(biquad*pts)
bgriirf df2t nd	Bi-quad Real Block IIR, DFIIt (floating point data) no delay version	N=512, M=16	33212 (4.1 cycles/(biquad*pts)
	Bi-quad Real Block IIR, DFI (complex floating		
bqciirf_dfl_nd stereo bqriirf dfl	point data) no delay version  Bi-quad Real Block Stereo IIR, DFI (floating	N=512, M=16	41208 (5.0 cycles/(biquad*pts)
nd	point data) no delay version	N=512, M=16	46578 (5.7 cycles/(biquad*pts)
Lattice Filters	Lattice Block Real IIR (16-bit data, 16-bit		
latr16x16_process	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)
	and the second second points and the second points and the second points are second points		tite (tre egoest, (temper is,
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 sgrt32x16	Vector Square Root (32-bit inputs, 16-bit output)	N=200	1560 (7.8 cycles/pts)
*	Vector Square Root (64-bit inputs, 32-bit		
vec_sqrt64x32	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) 1080 (5.4 cycles/pts)
vec_softmax32x32	Vector Softmax (32-bit data)	N=200 N=200	1080 (5.4 cycles/pts) 1163 (5.8 cycles/pts)
vec_tann32x32	Vector Hyperbolic Tangent (32-bit data)  Vector Rectifier Function (32-bit data)	N=200 N=200	218 (1.1 cycles/pts)
vec_rerus2x32	Integer to Floating Value Vector Conversion	N=200	229 (1.1 cycles/pts)
vec_intziloat vec_float2int	Integer to Floating Value Vector Conversion	N=200	225 (1.1 cycles/pts) 225 (1.1 cycles/pts)
vec_iioatzinc	Sine (floating point data)	N=200	2995 (15.0 cycles/pts)
vec_sinef	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)

	Description	Invocation parameters	Cycles Measurements	
Function Name			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				
vec_divide16x16_fas	East Vestor Division (16 hit 1991)	N=200	1142 /5 71/	
vec_divide32x32_fas	Fast Vector Division (16-bit data)	N=200	1143 (5.7 cycles/pts)	
t	Fast Vector Division (32-bit data)	N=200	1632 (8.2 cycles/pts)	
vec_sine32x32_fast vec_cosine32x32_fas	Fast Vector Sine (32-bit data)	N=200	728 (3.6 cycles/pts)	
t	Fast Vector Cosine (32-bit data) Fast Vector Square Root (32-bit inputs, 32-bit	N=200	728 (3.6 cycles/pts)	
vec_sqrt32x32_fast	output)	N=200	1172 (5.9 cycles/pts)	
Scalar Math				
Camples Breaties				
Complex Functions Vectorized Complex				
Math	Washing Committee (Elastina asiat data)	N-200	2415 (17.11(-+-)	
vec_complex2mag	Vector Complex Magnitude (floating point data) Vector Reciprocal Complex Magnitude (floating	N=200	3415 (17.1 cycles/pts)	
vec_complex2invmag	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)	
	Fast Vector Dot product (32x32-bit data, 64-			
vec_dot32x32_fast	bit output) Fast Vector Dot product (64x32-bit data, 64-	N=200	110 (0.6 cycles/pts)	
vec_dot64x32_fast	bit output) Fast Vector Dot product (64x64-bit data, 64-	N=200	214 (1.1 cycles/pts)	
vec_dot64x64_fast	bit output)  Fast Vector Dot product (64x64-bit data, 64-	N=200	215 (1.1 cycles/pts)	
vec_dot64x64i_fast	bit output (low 64 bit of integer multiply))  Vector Dot product, batch mode (8x8-bit data,	N=200	211 (1.1 cycles/pts)	
vec_dot_batch8x8	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)	
<pre>vec_dot_batch8x8_fa st</pre>	Vector Dot product, batch mode (8x8-bit data, 16-bit output), fast	N=200, M=16	586 (0.2 cycles/pts)	
vec_dot_batch8x16_f	Vector Dot product, batch mode (8x16-bit data, 16-bit output), fast	N=200, M=16	674 (0.2 cycles/pts)	
vec_dot_batch16x16_	Vector Dot product, batch mode (16x16-bit			
fast vec add16x16 fast	data, 32-bit output), fast  Fast Vector Sum (16-bit data)	N=200, M=16 N=200	586 (0.2 cycles/pts) 89 (0.4 cycles/pts)	
vec_add10x10_fast vec_add32x32_fast	Fast Vector Sum (32-bit data)	N=200	159 (0.8 cycles/pts)	

			Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
	Fast Power of a Vector (16x16-bit data, 64-bit	•	
vec_power16x16_fast	output) Fast Power of a Vector (32x32-bit data, 64-bit	N=200	40 (0.2 cycles/pts)
vec_power32x32_fast	output)  Fast Vector Shift with Saturation (16-bit	N=200	59 (0.3 cycles/pts)
vec_shift16x16_fast	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)
	Fast Vector Scaling with Saturation (32-bit	N=200	
vec_scale32x32_fast vec max16x16 fast	input, 32-bit output)  Fast Vector Maximum Value (16-bit data)	N=200	113 (0.6 cycles/pts) 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)
_	Vector Scaling with Saturation (floating point		
vec_scale_sf	data)	N=200	230 (1.1 cycles/pts)
vec_minf vec maxf	Vector Minimum Value (floating point data)	N=200	116 (0.6 cycles/pts)
vec_maxi	Vector Maximum Value (floating point data)  Common Exponent (floating point input data)	N=200 N=200	112 (0.6 cycles/pts) 127 (0.6 cycles/pts)
scl bexpf	Exponent (floating point input data)	N-200	7 (cycles)
	Exponent (IIoating point input data)		/ (cycles)
Emulated Floating Point Operations			
vec add 32x16ef	Vector Addition (emulated floating point)	N=200	1451 (7.3 cycles/pts)
vec_add_32x16ef	Vector Multiply (emulated floating point)	N=200	1033 (5.2 cycles/pts)
	Vector Multiply-Accumulate (emulated floating		
vec_mac_32x16ef  vec dot 32x16ef	point)	N=200 N=200	2027 (10.1 cycles/pts)
scl add 32x16ef	Vector Dot product (emulated floating point)  Scalar Addition (emulated floating point)	14-200	1070 (5.3 cycles/pts) 23 (cycles)
scl_add_32x16ef	Scalar Addition (emulated floating point)  Scalar Multiply (emulated floating point)		15 (cycles)
	Scalar Multiply-Accumulate (emulated floating		-
scl_mac_32x16ef	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)

			Cycles Measurements
Function Name	Description	Invocation parameters	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_fas t	Fast Matrix by Vector Multiply (16-bit data)	16x104 x 104x1	326 (5.1 MACs/cycle)
mtx_vecmpy32x32_fas t	Fast Matrix by Vector Multiply (32-bit data)	16x104 x 104x1	598 (2.8 MACs/cycle)
mtx_transpose8x8	Matrix transpose (8-bit data)	M=32, N=32	2277 (0.45 pts/cycle)
mtx_transpose8x8_fa st	Fast Matrix transpose (8-bit data)	M=32, N=32	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)

		Invocation	Cycles Measurements
Function Name	Description	parameters	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	Cause Tandas matrix invention (cause) at 20 hit		
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) Gauss-Jordan matrix inversion (complex 32-bit		1165 (1165.0 cycles/matrix)
cmtx_inv8x8_32x32	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_32x3 2	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		318 (318.0 cycles/matrix)
cmtx_gjelim4x4_32x3 2	Gauss-Jordan linear equations solver (complex 32-bit fixed-point data)		977 (977.0 cycles/matrix)
cmtx_gjelim8x8_32x3 2	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)
	Gauss-Jordan linear equations solver (32-bit		-
mtx_gjelim8x8_32x32	fixed-point data) Gauss-Jordan matrix inversion (floating point		2370 (2370.0 cycles/matrix)
mtx_inv2x2f	data) Gauss-Jordan matrix inversion (floating point		32 (32.0 cycles/matrix)
mtx_inv4x4f	data) Gauss-Jordan matrix inversion (floating point		272 (272.0 cycles/matrix)
mtx_inv8x8f	data)		1492 (1492.0 cycles/matrix)
Cholesky cmatcholdecomp10x10	Cholesky decomposition (single matrix complex		
_32x32 cmatcholfwdsubst10x	32-bit data) Cholesky forward substitution (single matrix	10x10	3376 (3376.0 cycles/matrix)
10_32x32 cmatcholbkwsubst10x	complex 32-bit data)  Cholesky back substitution (single matrix	10x10x1	469 (469.0 cycles/matrix)
10_32x32	complex 32-bit data)	10x1	289 (289.0 cycles/matrix)
cmatcholmmsesolver1 0x10_32x32	Cholesky MMSE (single matrix complex 32-bit data)	10x10x1	4199 (4199.0 cycles/matrix)
cmatcholpreprocess1 0x10_32x32	Cholesky Preprocessing (single matrix complex 32-bit data)	10x10	1350 (1350.0 cycles/matrix)
cmatcholpseudoinv10 x10_32x32	Matrix (Pseudo) Inversion (single matrix complex 32-bit data)	10×10	9563 (9563.0 cycles/matrix)
matcholdecomp10x10_	Cholesky decomposition (single matrix real 32-	10x10	2667 (2667.0 cycles/matrix)

		Investion	Cycles Measurements	
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5	
32x32	bit data)			
matcholfwdsubst10x1 0 32x32	Cholesky forward substitution (single matrix real 32-bit data)	10×10×1	325 (325.0 cycles/matrix)	
matcholbkwsubst10x1 0 32x32	Cholesky back substitution (single matrix real 32-bit data)	10x1	235 (235.0 cycles/matrix)	
matcholmmsesolver10 x10 32x32	Cholesky MMSE (single matrix real 32-bit data)	10x10x1	3304 (3304.0 cycles/matrix)	
matcholpreprocess10 x10 32x32	Cholesky Preprocessing (single matrix real 32-bit data)	10x10	695 (695.0 cycles/matrix)	
matcholpseudoinv10x 10 32x32	Matrix (Pseudo) Inversion (single matrix real 32-bit data)	10x10	7058 (7058.0 cycles/matrix)	
cmatcholdecomp10x10	Cholesky decomposition (single matrix complex floating-point data)	10x10	2429 (2429.0 cycles/matrix)	
cmatcholfwdsubst10x	Cholesky forward substitution (single matrix complex floating-point data)	10x10x1	267 (267.0 cycles/matrix)	
cmatcholbkwsubst10x	Cholesky back substitution (single matrix complex floating-point data)	10x1	123 (123.0 cycles/matrix)	
cmatcholmmsesolver1 0x10f	Cholesky MMSE (single matrix complex floating- point data)	10x10x1	2901 (2901.0 cycles/matrix)	
cmatcholpreprocess1 0x10f	Cholesky Preprocessing (single matrix complex	10x10x1		
cmatcholpseudoinv10	floating-point data) Matrix (Pseudo) Inversion (single matrix		943 (943.0 cycles/matrix)	
x10f	complex floating-point data) Cholesky decomposition (single matrix real	10x10	4392 (4392.0 cycles/matrix)	
matcholdecomp10x10f matcholfwdsubst10x1	floating-point data) Cholesky forward substitution (single matrix	10x10	1681 (1681.0 cycles/matrix)	
0f matcholbkwsubst10x1	real floating-point data) Cholesky back substitution (single matrix real	10x10x1	165 (165.0 cycles/matrix)	
0f matcholmmsesolver10	floating-point data) Cholesky MMSE (single matrix real floating-	10x1	83 (83.0 cycles/matrix)	
x10f matcholpreprocess10	point data) Cholesky Preprocessing (single matrix real	10x10x1	1992 (1992.0 cycles/matrix)	
x10f matcholpseudoinv10x	floating-point data) Matrix (Pseudo) Inversion (single matrix real	10x10	428 (428.0 cycles/matrix)	
10f	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)	
	Inverse FFT on Complex Data (16-bit	N=4096,		
ifft_cplx16x16	input/outputs, 16-bit twiddles) Inverse FFT on Complex Data (16-bit	scaling=3 N=4096,	37986 (0.108 pts/cycle)	
ifft_cplx16x16	input/outputs, 16-bit twiddles) Inverse FFT on Complex Data (32-bit	scaling=2 N=4096,	45224 (0.091 pts/cycle)	
ifft_cplx32x16	input/outputs, 16-bit twiddles) Inverse FFT on Complex Data (32-bit	scaling=3 N=4096,	35827 (0.114 pts/cycle)	
ifft_cplx32x16	input/outputs, 16-bit twiddles) Inverse FFT on Complex Data (32-bit	scaling=2 N=4096,	39367 (0.104 pts/cycle)	
ifft_cplx32x32	input/outputs, 32-bit twiddles) Inverse FFT on Complex Data (32-bit	scaling=3 N=4096,	32732 (0.125 pts/cycle)	
ifft_cplx32x32	input/outputs, 32-bit twiddles)	scaling=2	35617 (0.115 pts/cycle)	

		Invocation	Cycles Measurements
Function Name	Description	parameters	RI2020.4, HiFi4 with VFPU, bd5
Real FFT			
661116 .16	FFT on Real Data (16-bit input/outputs, 16-bit	N=4096,	20161 (0.105 ) (4.11)
fft_real16x16	twiddles)  FFT on Real Data (16-bit input/outputs, 16-bit	scaling=3 N=4096,	22161 (0.185 pts/cycle)
fft_real16x16	twiddles)	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)
TITC_realToX10	Inverse FFT on Real Data (16-bit	N=4096,	22249 (0.164 pts/cycle)
ifft_real16x16	input/outputs, 16-bit twiddles)  Inverse FFT on Real Data (32-bit	scaling=2 N=4096.	27050 (0.151 pts/cycle)
ifft_real32x16	input/outputs, 16-bit twiddles)	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)
_	Inverse FFT on Real Data (32-bit	N=8192,	
ifft_real32x32	input/outputs, 32-bit twiddles)  Inverse FFT on Real Data (32-bit	scaling=3 N=8192,	40986 (0.200 pts/cycle)
ifft_real32x32	input/outputs, 32-bit twiddles)	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 on Complex Data (32-bit input/outputs, 32-	N=960,	
fft_cplx32x32	bit twiddles)  Inverse FFT on Complex Data (32-bit	scaling=2 N=960,	10081 (0.095 pts/cycle)
ifft_cplx32x32	input/outputs, 32-bit twiddles) Inverse FFT on Complex Data (32-bit	scaling=3 N=960,	8672 (0.111 pts/cycle)
ifft_cplx32x32	input/outputs, 32-bit twiddles)	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)
	Inverse FFT on Complex Data (32-bit	N=480,	
ifft_cplx32x16	input/outputs, 16-bit twiddles) Inverse FFT on Complex Data (32-bit	scaling=3 N=480,	4257 (0.113 pts/cycle)
ifft_cplx32x16	input/outputs, 16-bit twiddles)  FFT on Complex Data (16-bit input/outputs, 16-	scaling=2 N=480,	4928 (0.097 pts/cycle)
fft_cplx16x16	bit twiddles)	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)
	Inverse FFT on Complex Data (16-bit	N=480,	
ifft_cplx16x16 Mixed Radix Real	input/outputs, 16-bit twiddles)	scaling=2	5281 (0.091 pts/cycle)
FFT	FFT on Real Data (32-bit input/outputs, 32-bit	N. 060	
fft_real32x32	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)
_	Inverse FFT on Real Data (32-bit	N=960,	
ifft_real32x32	input/outputs, 32-bit twiddles)  FFT on Real Data (32-bit input/outputs, 16-bit	scaling=2 N=480,	7077 (0.136 pts/cycle)
fft_real32x16	twiddles)	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)
_	Inverse FFT on Real Data (32-bit	N=480,	
ifft_real32x16	input/outputs, 16-bit twiddles)  FFT on Real Data (16-bit input/outputs, 16-bit	scaling=2 N=480,	2972 (0.162 pts/cycle)
fft_real16x16	twiddles)  FFT on Real Data (16-bit input/outputs, 16-bit	scaling=3 N=480,	2712 (0.177 pts/cycle)
fft_real16x16	twiddles)	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)
TTTC_TEGITOXIO	inpuc/outputs, io-bit twidutes)	scarring-3	ZIII (U.113 PUS/CYCIE)

	Description	Invocation parameters	Cycles Measurements
Function Name			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			(11 11 11 11 11 11 11 11 11 11 11 11 11
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)
	Inverse FFT on Complex Data with Optimized Memory Usage (16-bit input/outputs, 16-bit		
ifft_cplx16x16_ie	twiddles)	N=1024	10210 (0.100 pts/cycle)
	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit	N=1024,	
ifft_cplx32x16_ie	twiddles)	scaling=3	9811 (0.104 pts/cycle)
	Inverse FFT on Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit	N=1024,	
ifft cplx32x16 ie	twiddles)	scaling=2	11522 (0.089 pts/cycle)
	Inverse FFT on Complex Data with Optimized	N 1004	
ifft cplx32x32 ie	Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	7147 (0.143 pts/cycle)
	Inverse FFT on Complex Data with Optimized		
ifft cplx32x32 ie	Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	8180 (0.125 pts/cycle)
	FFT on Stereo Complex Data with Optimized		
stereo_fft_cplx16x1 6 ie	Memory Usage (16-bit input/outputs, 16-bit twiddles)	N=1024	17238 (0.059 pts/cycle)
	FFT on Stereo Complex Data with Optimized		1,230 (0.03) pcb/cycle/
stereo_fft_cplx32x1 6_ie	Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=3	14059 (0.073 pts/cycle)
stereo_fft_cplx32x1	FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs, 16-bit twiddles)	N=1024, scaling=2	16975 (0.061 ptg/gyglg)
6_ie	FFT on Stereo Complex Data with Optimized	Scalling-2	16875 (0.061 pts/cycle)
stereo_fft_cplx32x3 2 ie	Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	15403 (0.066 pts/cycle)
2_16	FFT on Stereo Complex Data with Optimized	Scarring-5	13403 (0.000 pts/cycle)
stereo_fft_cplx32x3 2_ie	Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=2	17823 (0.057 pts/cycle)
stereo ifft cplx16x	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (16-bit input/outputs,		
16_ie	16-bit twiddles)	N=1024	17215 (0.059 pts/cycle)
stereo ifft cplx32x	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs,	N=1024,	
16_ie	16-bit twiddles)	scaling=3	13717 (0.075 pts/cycle)
stereo ifft cplx32x	Inverse FFT on Stereo Complex Data with Optimized Memory Usage (32-bit input/outputs,	N=1024,	
16_ie	16-bit twiddles)	scaling=2	16639 (0.062 pts/cycle)
atoroo ifft anluggu	Inverse FFT on Stereo Complex Data with	N=1024	
stereo_ifft_cplx32x 32 ie	Optimized Memory Usage (32-bit input/outputs, 32-bit twiddles)	N=1024, scaling=3	15661 (0.065 pts/cycle)
	Inverse FFT on Stereo Complex Data with	N-1024	
stereo_ifft_cplx32x 32 ie	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)
	FFT on Stereo Complex Data with Optimized	N. 400.6	114001 (0.000 ) ( / )
stereo_fft_cplxf_ie stereo ifft cplxf i	Memory Usage (floating point data)  Inverse FFT on Stereo Complex Data with	N=4096	114931 (0.036 pts/cycle)
е	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)
110_100102A02_16	1 111 on hear back with openmized memory usage	14 1021/	1,00 (0.211 pc3/cyc1e/

		Investion	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
	(32-bit input/outputs, 32-bit twiddles)	scaling=3	
	FFT on Real Data with Optimized Memory Usage	N=1024,	
fft_real32x32_ie	(32-bit input/outputs, 32-bit twiddles)  Inverse FFT on Real Data with Optimized Memory	scaling=2	5979 (0.171 pts/cycle)
ifft_real16x16_ie	Usage (16-bit input/outputs, 16-bit twiddles) Inverse FFT on Real Data with Optimized Memory	N=1024 N=1024,	6605 (0.155 pts/cycle)
ifft_real32x16_ie	Usage (32-bit input/outputs, 16-bit twiddles) Inverse FFT on Real Data with Optimized Memory	scaling=3 N=1024,	5887 (0.174 pts/cycle)
ifft_real32x16_ie	Usage (32-bit input/outputs, 16-bit twiddles) Inverse FFT on Real Data with Optimized Memory	scaling=2 N=1024,	7343 (0.139 pts/cycle)
ifft_real32x32_ie	Usage (32-bit input/outputs, 32-bit twiddles) Inverse FFT on Real Data with Optimized Memory	scaling=3 N=1024,	4829 (0.212 pts/cycle)
ifft_real32x32_ie	Usage (32-bit input/outputs, 32-bit twiddles)  FFT on Real Data with Optimized Memory Usage	scaling=2	5940 (0.172 pts/cycle)
fft_realf_ie	(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)
_	Modified Discrete Cosine Transform (32-bit	N=32,	
mdct_32x32	input/outputs, 32-bit twiddles) Inverse Modified Discrete Cosine Transform	scalingOpt=3 N=32,	360 (cycles)
imdct_32x16	(32-bit input/outputs, 16-bit twiddles)  Inverse Modified Discrete Cosine Transform	scalingOpt=3 N=32,	334 (cycles)
imdct_32x32	(32-bit input/outputs, 32-bit twiddles)  2-D Discrete Cosine Transform (8-bit unsigned	scalingOpt=3 N=8, L=1024,	364 (cycles)
dct2d_8x16	input, 16-bit signed output) 2-D Inverse Discrete Cosine Transform (16-bit	scalingOpt=0 N=8, L=1024,	263180 (257.0 cycles/block)
idct2d_16x8	signed input, 8-bit unsigned output)  Discrete Cosine Transform, Type II (floating	scalingOpt=0	259087 (253.0 cycles/block)
dctf	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 anastrumf	FFT Power Spectrum ( complex floating-point	N=1024[modo=0]	19256 (0.06 ptg/gyglg)
fft_spectrumf MFCC features	data, single precision )	N=1024[mode=0]	18256 (0.06 pts/cycle)
extraction		Fs: 16000;	
		fftSize: 512;	
		Range: 133.3-	
	C	6853.8 Hz;	
logme132x32 process	Compute log mel filterbank energies (32-bit fixed-point input/output data)	Bands: 20; Flavor: HTK	2765 (cycles per STFT hop)
		Fs: 16000;	(-1 Fill offi mop)
		fftSize: 512;	
		Range: 133.3-	
		6853.8 Hz;	
	Compute log mel filterbank energies (32-bit	Bands: 40; Flavor:	
logme132x32 process	fixed-point input/output data)	AUDITORY	3429 (cycles per STFT hop)
		Fs: 16000;	
		fftSize: 512;	
		Win: 25 ms;	
		Hop: 10 ms;	
		Range: 133.3- 6853.8 Hz;	
		Bands: 20;	
	Compute Mel-Frequency Cepstrum Coefficients	Ceps: 13;	
mfcc32x32_process	(32-bit fixed-point input/output data)	Flavor: HTK	7569 (cycles per STFT hop)
mfaa20:-20	Compute Mel-Frequency Cepstrum Coefficients	Fs: 16000;	7402 (avalor amproximation)
mfcc32x32_process	(32-bit fixed-point input/output data)	fftSize: 512;	7493 (cycles per STFT hop)

		Invocation	Cycles Measurements
Function Name	Description	parameters	RI2020.4, HiFi4 with VFPU, bd5
		Win: 16 ms; Hop: 10 ms;	
		Range: 133.3-	
		6853.8 Hz; Bands: 40;	
		Ceps: 13; Flavor:	
		AUDITORY	
		Fs: 16000; fftSize: 512;	
		Range: 133.3- 6853.8 Hz;	
	Compute log mel filterbank energies (single	Bands: 20;	
logmelf_process	precision floating-point input/output data)	Flavor: HTK Fs: 16000;	3913 (cycles per STFT hop)
		fftSize: 512;	
		Range: 133.3- 6853.8 Hz;	
		Bands: 40;	
logmelf process	Compute log mel filterbank energies (single precision floating-point input/output data)	Flavor: AUDITORY	4907 (cycles per STFT hop)
- 5F-00000	The state of the s	Fs: 16000;	( Table 1 and 1
		fftSize: 512; Win: 25 ms;	
		Hop: 10 ms;	
		Range: 133.3- 6853.8 Hz;	
	Compute Mel-Frequency Cepstrum Coefficients	Bands: 20;	
mfccf process	(single precision floating-point input/output data)	Ceps: 13; Flavor: HTK	10314 (cycles per STFT hop)
		Fs: 16000; fftSize: 512;	
		Win: 16 ms;	
		Hop: 10 ms; Range: 133.3-	
		6853.8 Hz;	
	Compute Mel-Frequency Cepstrum Coefficients	Bands: 40; Ceps: 13;	
	(single precision floating-point input/output	Flavor:	
mfccf_process	data)	AUDITORY	9633 (cycles per STFT hop)
image processing			
functions			
image rotation imgrotate gu8 proce		SOCIF(128x96)	
ss	Image rotation (8-bit unsigned grayscale)	0 degrees	8918 (cycles)
imgrotate_gu8_proce ss	Image rotation (8-bit unsigned grayscale)	SQCIF(128x96) 90 degrees	22230 (cycles)
imgrotate_gu8_proce		SQCIF(128x96)	
ss imgrotate_gu8_proce	Image rotation (8-bit unsigned grayscale)	45 degrees QCIF(176x144)	201250 (cycles)
ss imgrotate gu8 proce	Image rotation (8-bit unsigned grayscale)	0 degrees QCIF(176x144)	15326 (cycles)
ss	Image rotation (8-bit unsigned grayscale)	90 degrees	44503 (cycles)
imgrotate_gu8_proce	Image rotation (8-bit unsigned grayscale)	QCIF(176x144) 45 degrees	393901 (cycles)
imgrotate_gu8_proce		CIF(352x288) 0	
ss imgrotate_gu8_proce	Image rotation (8-bit unsigned grayscale)	degrees CIF(352x288)	45622 (cycles)
ss	Image rotation (8-bit unsigned grayscale)	90 degrees	171223 (cycles)
<pre>imgrotate_gu8_proce ss</pre>	Image rotation (8-bit unsigned grayscale)	CIF(352x288) 45 degrees	1457764 (cycles)
imgrotate_gu8_proce	Image rotation (8-bit unsigned grayscale)	QVGA(320x240) 0 degrees	35833 (cycles)
imgrotate_gu8_proce	image rotation (0-bit unsigned grayscare)	QVGA(320x240)	JJJJJ (CYCIES)
ss imgrotate gu8 proce	Image rotation (8-bit unsigned grayscale)	90 degrees QVGA(320x240)	130232 (cycles)
ss	Image rotation (8-bit unsigned grayscale)	45 degrees	1121136 (cycles)
imgrotate_gu8_proce	Image rotation (8-bit unsigned grayscale)	VGA(640x480) 0 degrees	116979 (cycles)
imgrotate_gu8_proce		VGA (640x480)	
ss imgfastrotate gu8 p	Image rotation (8-bit unsigned grayscale)  Image rotation, fast (8-bit unsigned	90 degrees SQCIF(128x96)	509912 (cycles)
rocess	grayscale)	0 degrees	2638 (cycles)
imgfastrotate_gu8_p rocess	<pre>Image rotation, fast (8-bit unsigned   grayscale)</pre>	SQCIF(128x96) 90 degrees	5788 (cycles)
100000	9-4100410/	Ju acytecs	0.00 (070100)

Function Name		Invocation	
	Description	parameters	RI2020.4, HiFi4 with VFPU, bd5
	Image rotation, fast (8-bit unsigned grayscale)	SQCIF(128x96) 45 degrees	187160 (cycles)
imgfastrotate_gu8_p	Image rotation, fast (8-bit unsigned	QCIF(176x144)	-
	grayscale) Image rotation, fast (8-bit unsigned	0 degrees QCIF(176x144)	4750 (cycles)
	grayscale) Image rotation, fast (8-bit unsigned	90 degrees OCIF(176x144)	10654 (cycles)
rocess	grayscale)	45 degrees CIF(352x288) 0	364614 (cycles)
rocess	<pre>Image rotation, fast (8-bit unsigned grayscale)</pre>	degrees	15694 (cycles)
	<pre>Image rotation, fast (8-bit unsigned grayscale)</pre>	CIF(352x288) 90 degrees	43216 (cycles)
	Image rotation, fast (8-bit unsigned grayscale)	CIF(352x288) 45 degrees	1350220 (cycles)
imgfastrotate_gu8_p	Image rotation, fast (8-bit unsigned	QVGA(320x240)	-
	grayscale) Image rotation, fast (8-bit unsigned	0 degrees QVGA(320x240)	12142 (cycles)
	grayscale) Image rotation, fast (8-bit unsigned	90 degrees OVGA(320x240)	32919 (cycles)
rocess	grayscale)	45 degrees	1037981 (cycles)
	<pre>Image rotation, fast (8-bit unsigned grayscale)</pre>	VGA(640x480) 0 degrees	43342 (cycles)
	<pre>Image rotation, fast (8-bit unsigned grayscale)</pre>	VGA(640x480) 90 degrees	128069 (cycles)
imgrotate_gs8_proce	Image rotation (8-bit signed grayscale)	SQCIF(128x96) 0 degrees	
imgrotate_gs8_proce		SQCIF(128x96)	8919 (cycles)
ss imgrotate gs8 proce	Image rotation (8-bit signed grayscale)	90 degrees SQCIF(128x96)	22230 (cycles)
	Image rotation (8-bit signed grayscale)	45 degrees OCIF(176x144)	202234 (cycles)
ss	Image rotation (8-bit signed grayscale)	0 degrees	15324 (cycles)
imgrotate_gs8_proce ss	Image rotation (8-bit signed grayscale)	QCIF(176x144) 90 degrees	44502 (cycles)
imgrotate_gs8_proce ss	Image rotation (8-bit signed grayscale)	QCIF(176x144) 45 degrees	397271 (cycles)
imgrotate_gs8_proce		CIF(352x288) 0	
imgrotate_gs8_proce	Image rotation (8-bit signed grayscale)  Image rotation (8-bit signed grayscale)	degrees CIF(352x288) 90 degrees	45621 (cycles) 171223 (cycles)
imgrotate_gs8_proce	Image rotation (8-bit signed grayscale)	CIF(352x288) 45 degrees	1471423 (cycles)
imgrotate_gs8_proce		QVGA(320x240)	
imgrotate_gs8_proce	Image rotation (8-bit signed grayscale)	0 degrees QVGA(320x240)	35833 (cycles)
ss imgrotate_gs8_proce	Image rotation (8-bit signed grayscale)	90 degrees OVGA(320x240)	130230 (cycles)
ss	Image rotation (8-bit signed grayscale)	45 degrees VGA(640x480) 0	1130719 (cycles)
imgrotate_gs8_proce ss	Image rotation (8-bit signed grayscale)	degrees	116980 (cycles)
imgrotate_gs8_proce ss	Image rotation (8-bit signed grayscale)	VGA(640x480) 90 degrees	509910 (cycles)
imgfastrotate_gs8_p	Image rotation, fast (8-bit signed grayscale)	SQCIF(128x96) 0 degrees	2638 (cycles)
imgfastrotate_gs8_p		SQCIF(128x96)	
imgfastrotate_gs8_p	Image rotation, fast (8-bit signed grayscale)	90 degrees SQCIF(128x96)	5788 (cycles)
rocess imgfastrotate gs8 p	Image rotation, fast (8-bit signed grayscale)	45 degrees QCIF(176x144)	189607 (cycles)
rocess	Image rotation, fast (8-bit signed grayscale)	0 degrees	4750 (cycles)
	Image rotation, fast (8-bit signed grayscale)	QCIF(176x144) 90 degrees	10653 (cycles)
	Image rotation, fast (8-bit signed grayscale)	QCIF(176x144) 45 degrees	369840 (cycles)
imgfastrotate_gs8_p rocess	Image rotation, fast (8-bit signed grayscale)	CIF(352x288) 0 degrees	15694 (cycles)
imgfastrotate_gs8_p	Image rotation, fast (8-bit signed grayscale)	CIF(352x288) 90 degrees	43214 (cycles)
imgfastrotate_gs8_p		CIF(352x288)	-
rocess imgfastrotate_gs8_p	Image rotation, fast (8-bit signed grayscale)	45 degrees QVGA(320x240)	1374550 (cycles)
	Image rotation, fast (8-bit signed grayscale)	0 degrees QVGA(320x240)	12142 (cycles)
rocess	Image rotation, fast (8-bit signed grayscale)	90 degrees	32916 (cycles)
imgfastrotate_gs8_p rocess	Image rotation, fast (8-bit signed grayscale)	QVGA(320x240) 45 degrees	1055783 (cycles)

		Investion	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
imgfastrotate_gs8_p rocess	Image rotation, fast (8-bit signed grayscale)	VGA(640x480) 0 degrees	43343 (cycles)
imgfastrotate_gs8_p		VGA (640x480)	-
rocess imgrotate_gs16_proc	Image rotation, fast (8-bit signed grayscale)	90 degrees SQCIF(128x96)	128066 (cycles)
ess imgrotate gs16 proc	Image rotation (16-bit grayscale)	0 degrees SQCIF(128x96)	5545 (cycles)
ess imgrotate gs16 proc	Image rotation (16-bit grayscale)	90 degrees SOCIF(128x96)	12258 (cycles)
ess	Image rotation (16-bit grayscale)	45 degrees	189834 (cycles)
imgrotate_gs16_proc ess	Image rotation (16-bit grayscale)	QCIF(176x144) 0 degrees	10405 (cycles)
imgrotate_gs16_proc ess	Image rotation (16-bit grayscale)	QCIF(176x144) 90 degrees	24057 (cycles)
imgrotate_gs16_proc ess	Image rotation (16-bit grayscale)	QCIF(176x144) 45 degrees	361130 (cycles)
imgrotate_gs16_proc		CIF(352x288) 0	-
ess imgrotate_gs16_proc	Image rotation (16-bit grayscale)	degrees CIF(352x288)	36507 (cycles)
ess imgrotate gs16 proc	Image rotation (16-bit grayscale)	90 degrees CIF(352x288)	91520 (cycles)
ess	Image rotation (16-bit grayscale)	45 degrees OVGA(320x240)	1343435 (cycles)
imgrotate_gs16_proc ess	Image rotation (16-bit grayscale)	0 degrees	28045 (cycles)
imgrotate_gs16_proc ess	Image rotation (16-bit grayscale)	QVGA(320x240) 90 degrees	70014 (cycles)
imgrotate_gs16_proc ess	Image rotation (16-bit grayscale)	QVGA(320x240) 45 degrees	1026351 (cycles)
imgrotate_gs16_proc	Image rotation (16-bit grayscale)	VGA(640x480) 0 degrees	103945 (cycles)
imgrotate_gs16_proc		VGA (640x480)	
ess imgfastrotate gs16	Image rotation (16-bit grayscale)	90 degrees SQCIF(128x96)	271876 (cycles)
process imgfastrotate gs16	Image rotation, fast (16-bit grayscale)	0 degrees SOCIF(128x96)	4076 (cycles)
process	Image rotation, fast (16-bit grayscale)	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_		QCIF(176x144)	
process imgfastrotate_gs16_	Image rotation, fast (16-bit grayscale)	45 degrees CIF(352x288) 0	345079 (cycles)
process imgfastrotate gs16	Image rotation, fast (16-bit grayscale)	degrees CIF(352x288)	28077 (cycles)
process	Image rotation, fast (16-bit grayscale)	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_		QVGA(320x240)	
process imgfastrotate_gs16_	Image rotation, fast (16-bit grayscale)	45 degrees VGA(640x480) 0	982647 (cycles)
process imgfastrotate_gs16_	Image rotation, fast (16-bit grayscale)	degrees VGA(640x480)	81260 (cycles)
process	Image rotation, fast (16-bit grayscale)	90 degrees	101965 (cycles)
image resize		SQCIF(128x96)-	
imgresize_gu8_proce	Image resize (8-bit unsigned grayscale)	>QCIF(176x144) , nearest	58272 (cycles)
	image resize (0-bit unsigned grayscare)	QCIF(176x144)-	30272 (Cycles)
imgresize_gu8_proce ss	Image resize (8-bit unsigned grayscale)	>SQCIF(128x96) , nearest	38988 (cycles)
imgresize gu8 proce		CIF (352x288) - >SQCIF(128x96)	
ss	Image resize (8-bit unsigned grayscale)	, nearest	56195 (cycles)
imgresize_gu8_proce		QVGA(320x240)- >SQCIF(128x96)	50075 ( )
ss imgresize_gu8_proce	Image resize (8-bit unsigned grayscale)	, nearest VGA (640x480)-	53077 (cycles)
SS	Image resize (8-bit unsigned grayscale)	>SQCIF(128x96)	84276 (cycles)

		Investis	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
		, nearest	
imgfastresize_gu8_p	Image resize, fast (8-bit unsigned grayscale)	SQCIF(128x96) - >QCIF(176x144) , nearest	28720 (cycles)
imgfastresize_gu8_p		QCIF(176x144) - >SQCIF(128x96)	
rocess	Image resize, fast (8-bit unsigned grayscale)	, nearest CIF (352x288)-	19011 (cycles)
imgfastresize_gu8_p rocess	Image resize, fast (8-bit unsigned grayscale)	>SQCIF(128x96) , nearest QVGA(320x240)-	28324 (cycles)
imgfastresize_gu8_p rocess	Image resize, fast (8-bit unsigned grayscale)	>SQCIF(128x96) , nearest VGA (640x480)-	26693 (cycles)
imgfastresize_gu8_p rocess	Image resize, fast (8-bit unsigned grayscale)	>SQCIF(128x96) , nearest	43012 (cycles)
imgresize_gs8_proce ss	Image resize (8-bit signed grayscale)	SQCIF(128x96) - >QCIF(176x144) , nearest	58272 (cycles)
imgresize_gs8_proce ss	Image resize (8-bit signed grayscale)	QCIF(176x144) - >SQCIF(128x96) , nearest	38987 (cycles)
imgresize_gs8_proce ss	Image resize (8-bit signed grayscale)	CIF (352x288) - >SQCIF(128x96) , nearest	56194 (cycles)
imgresize_gs8_proce ss	Image resize (8-bit signed grayscale)	QVGA(320x240)- >SQCIF(128x96) , nearest	53077 (cycles)
imgresize_gs8_proce	Image resize (8-bit signed grayscale)	VGA (640x480)- >SQCIF(128x96) , nearest	84274 (cycles)
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	SQCIF(128x96) - >QCIF(176x144) , nearest	28721 (cycles)
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	QCIF(176x144)- >SQCIF(128x96) , nearest	19011 (cycles)
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	CIF (352x288)- >SQCIF(128x96) , nearest	28324 (cycles)
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	QVGA(320x240)- >SQCIF(128x96) , nearest	26691 (cycles)
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	VGA (640x480) - >SQCIF(128x96) , nearest SOCIF(128x96) -	43012 (cycles)
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	>QCIF(176x144) , nearest	38216 (cycles)
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	QCIF(176x144) - >SQCIF(128x96) , nearest	27820 (cycles)
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	CIF (352x288)- >SQCIF(128x96) , nearest	45243 (cycles)
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	QVGA(320x240)- >SQCIF(128x96) , nearest	42076 (cycles)
imgresize_gs16_proc ess	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)

		Invession	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
·		SQCIF(128x96) - >OCIF(176x144)	
imgresize_gu8_proce ss	Image resize (8-bit unsigned grayscale)	, bilinear	84453 (cycles)
		QCIF(176x144)-	_
imgresize_gu8_proce ss	Image resize (8-bit unsigned grayscale)	>SQCIF(128x96) , bilinear	99951 (cycles)
	image realize to be analynea grayeoure,	CIF (352x288)-	33301 (0,0100)
imgresize_gu8_proce	Toron marine (O bit marined marine)	>SQCIF(128x96) , bilinear	211207 (1)
SS	Image resize (8-bit unsigned grayscale)	QVGA(320x240)-	211297 (cycles)
imgresize_gu8_proce		>SQCIF(128x96)	
SS	Image resize (8-bit unsigned grayscale)	, bilinear VGA (640x480)-	179592 (cycles)
imgresize_gu8_proce		>SQCIF(128x96)	
SS	Image resize (8-bit unsigned grayscale)	, bilinear SOCIF(128x96)-	500133 (cycles)
imgfastresize gu8 p		>QCIF(128x96) -	
rocess	Image resize, fast (8-bit unsigned grayscale)	, bilinear	74145 (cycles)
imgfastresize gu8 p		QCIF(176x144) - >SQCIF(128x96)	
rocess	Image resize, fast (8-bit unsigned grayscale)	, bilinear	90952 (cycles)
		CIF (352x288)-	
imgfastresize_gu8_p rocess	Image resize, fast (8-bit unsigned grayscale)	>SQCIF(128x96) , bilinear	197519 (cycles)
		QVGA(320x240)-	
imgfastresize_gu8_p	Image resize, fast (8-bit unsigned grayscale)	>SQCIF(128x96) , bilinear	167420 (1)
rocess	image resize, last (8-bit unsigned grayscale)	VGA (640x480)-	167439 (cycles)
imgfastresize_gu8_p		>SQCIF(128x96)	
rocess	Image resize, fast (8-bit unsigned grayscale)	, bilinear SOCIF(128x96)-	479887 (cycles)
imgresize gs8 proce		>QCIF(176x144)	
ss	Image resize (8-bit signed grayscale)	, bilinear	86879 (cycles)
imgresize gs8 proce		QCIF(176x144) - >SQCIF(128x96)	
ss	Image resize (8-bit signed grayscale)	, bilinear	101681 (cycles)
:i 0		CIF (352x288)-	
imgresize_gs8_proce ss	Image resize (8-bit signed grayscale)	>SQCIF(128x96) , bilinear	213746 (cycles)
		QVGA(320x240)-	
imgresize_gs8_proce ss	Image resize (8-bit signed grayscale)	>SQCIF(128x96) , bilinear	181811 (cycles)
55	image resize (o-bit signed grayscare)	VGA (640x480)-	101011 (Cycles)
imgresize_gs8_proce		>SQCIF(128x96)	500540 / 3
SS	Image resize (8-bit signed grayscale)	, bilinear SQCIF(128x96)-	503542 (cycles)
imgfastresize_gs8_p		>QCIF(176x144)	
rocess	Image resize, fast (8-bit signed grayscale)	, bilinear	75635 (cycles)
imgfastresize gs8 p		QCIF(176x144) - >SQCIF(128x96)	
rocess	Image resize, fast (8-bit signed grayscale)	, bilinear	91842 (cycles)
imgfastresize gs8 p		CIF (352x288) - >SQCIF(128x96)	
rocess	Image resize, fast (8-bit signed grayscale)	, bilinear	198481 (cycles)
1		QVGA (320x240) -	
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	>SQCIF(128x96) , bilinear	168304 (cycles)
	J, (. )	VGA (640x480)-	. , , , , , , , , , , , , , , , , , , ,
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	>SQCIF(128x96) , bilinear	481233 (cycles)
10000	image resize, rast (o-bit signed grayscare)	SQCIF(128x96)-	101233 (CACTER)
imgresize_gs16_proc		>QCIF(176x144)	
ess	Image resize (16-bit grayscale)	, bilinear QCIF(176x144)-	72885 (cycles)
imgresize gs16 proc		>SQCIF(176x144) -	
ess	Image resize (16-bit grayscale)	, bilinear	95239 (cycles)
imgresize gs16 proc		CIF (352x288) - >SQCIF(128x96)	
ess	Image resize (16-bit grayscale)	, bilinear	217860 (cycles)
		QVGA (320x240) -	
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	>SQCIF(128x96) , bilinear	182549 (cycles)
		VGA (640x480)-	
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	>SQCIF(128x96) , bilinear	541317 (cycles)
imgfastresize_gs16_	image resize (in bit grayscare)	SQCIF(128x96)-	31101/ (CYC163/
	Image resize, fast (16-bit grayscale)	>QCIF(176x144)	70739 (cycles)

		Investing.	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
		, bilinear	
		QCIF(176x144)-	
imgfastresize_gs16_ process	Image resize, fast (16-bit grayscale)	>SQCIF(128x96) , bilinear	92849 (cycles)
process	Image resize, rase (10 bit grayscare)	CIF (352x288)-	J2013 (Cyclcs)
imgfastresize_gs16_ process	Image resize, fast (16-bit grayscale)	>SQCIF(128x96)	213744 (gyalog)
process	image resize, rast (10-bit grayscare)	, bilinear QVGA(320x240)-	213744 (cycles)
imgfastresize_gs16_		>SQCIF(128x96)	
process	Image resize, fast (16-bit grayscale)	, bilinear VGA (640x480)-	179007 (cycles)
imgfastresize_gs16_		>SQCIF(128x96)	
process	Image resize, fast (16-bit grayscale)	, bilinear SQCIF(128x96)-	534896 (cycles)
imgresize gu8 proce		>QCIF(176x144)	
ss	Image resize (8-bit unsigned grayscale)	, bicubic	112319 (cycles)
imgresize gu8 proce		QCIF(176x144) - >SQCIF(128x96)	
ss	Image resize (8-bit unsigned grayscale)	, bicubic	134518 (cycles)
imgresize gu8 proce		CIF (352x288) - >SQCIF(128x96)	
ss	Image resize (8-bit unsigned grayscale)	, bicubic	309605 (cycles)
imarosias aug prose		QVGA(320x240)- >SQCIF(128x96)	
imgresize_gu8_proce	Image resize (8-bit unsigned grayscale)	, bicubic	260354 (cycles)
		VGA (640x480) -	
imgresize_gu8_proce	Image resize (8-bit unsigned grayscale)	>SQCIF(128x96) , bicubic	792560 (cycles)
		SQCIF(128x96)-	(01000)
imgfastresize_gu8_p rocess	Image resize, fast (8-bit unsigned grayscale)	>QCIF(176x144), bicubic	102010 (cycles)
100655	image resize, rast (0-bit unsigned grayscare)	QCIF(176x144)-	102010 (Cycles)
imgfastresize_gu8_p	T (0.1.1)	>SQCIF(128x96)	105500 ()
rocess	Image resize, fast (8-bit unsigned grayscale)	, bicubic CIF (352x288)-	125520 (cycles)
imgfastresize_gu8_p		>SQCIF(128x96)	
rocess	Image resize, fast (8-bit unsigned grayscale)	, bicubic QVGA(320x240)-	295827 (cycles)
imgfastresize_gu8_p		>SQCIF(128x96)	
rocess	Image resize, fast (8-bit unsigned grayscale)	, bicubic VGA (640x480)-	248202 (cycles)
imgfastresize gu8 p		>SQCIF(128x96)	
rocess	Image resize, fast (8-bit unsigned grayscale)	, bicubic SOCIF(128x96)-	772313 (cycles)
imgresize gs8 proce		>QCIF(128x96) -	
ss	Image resize (8-bit signed grayscale)	, bicubic	114747 (cycles)
imgresize gs8 proce		QCIF(176x144) - >SQCIF(128x96)	
ss	Image resize (8-bit signed grayscale)	, bicubic	136250 (cycles)
imgresize_gs8_proce		CIF (352x288) - >SQCIF(128x96)	
ss singlesize_gso_proce	Image resize (8-bit signed grayscale)	, bicubic	312055 (cycles)
		QVGA (320x240) -	
imgresize_gs8_proce	Image resize (8-bit signed grayscale)	>SQCIF(128x96) , bicubic	262572 (cycles)
		VGA (640x480)-	
imgresize_gs8_proce	Image resize (8-bit signed grayscale)	>SQCIF(128x96) , bicubic	795970 (cycles)
	image recipe (o pre orginea grajecare)	SQCIF(128x96)-	,303,0 (0,0108)
imgfastresize_gs8_p rocess	Image resize, fast (8-bit signed grayscale)	>QCIF(176x144), bicubic	103501 (cycles)
Tocess	image resize, rast (o-bit signed grayscare)	QCIF(176x144)-	103301 (Cycles)
imgfastresize_gs8_p	Trace regime fact (0 kit -im-d market)	>SQCIF(128x96)	126410 (avaloa)
rocess	Image resize, fast (8-bit signed grayscale)	, bicubic CIF (352x288)-	126410 (cycles)
imgfastresize_gs8_p		>SQCIF(128x96)	000000
rocess	Image resize, fast (8-bit signed grayscale)	, bicubic QVGA(320x240)-	296788 (cycles)
imgfastresize_gs8_p		>SQCIF(128x96)	
rocess	Image resize, fast (8-bit signed grayscale)	, bicubic VGA (640x480)-	249069 (cycles)
imgfastresize_gs8_p		>SQCIF(128x96)	
rocess	Image resize, fast (8-bit signed grayscale)	, bicubic	773660 (cycles)
imgresize gs16 proc		SQCIF(128x96) - >QCIF(176x144)	
ess	Image resize (16-bit grayscale)	, bicubic	100753 (cycles)

		laure antica	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
		QCIF(176x144)-	
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	>SQCIF(128x96) , bicubic	129807 (cycles)
1		CIF (352x288)-	-
imgresize_gs16_proc ess	Image resize (16-bit grayscale)	>SQCIF(128x96) , bicubic	316168 (cycles)
imgresize gs16 proc		QVGA(320x240)- >SOCIF(128x96)	
ess	Image resize (16-bit grayscale)	, bicubic	263312 (cycles)
imgresize gs16 proc		VGA (640x480) - >SQCIF(128x96)	
ess	Image resize (16-bit grayscale)	, bicubic	833744 (cycles)
imgfastresize gs16		SQCIF(128x96) - >QCIF(176x144)	
process	Image resize, fast (16-bit grayscale)	, bicubic OCIF(176x144)-	98603 (cycles)
imgfastresize_gs16_		>SQCIF(176X144)-	
process	Image resize, fast (16-bit grayscale)	, bicubic CIF (352x288)-	127418 (cycles)
imgfastresize_gs16_		>SQCIF(128x96)	
process	Image resize, fast (16-bit grayscale)	, bicubic QVGA(320x240)-	312051 (cycles)
imgfastresize_gs16_		>SQCIF(128x96)	050770 / 1
process	Image resize, fast (16-bit grayscale)	, bicubic VGA (640x480)-	259773 (cycles)
imgfastresize_gs16_ process	Image resize, fast (16-bit grayscale)	>SQCIF(128x96) , bicubic	827324 (cycles)
miscellaneous image	image resize, rast (ro-bit grayscare)	, bicubic	027324 (Cycles)
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	<pre>Image histogram, fast (8-bit unsigned grayscale)</pre>	SQCIF(128x96)	44380 (cycles)
imgfasthist gu8	Image histogram, fast (8-bit unsigned grayscale)	QCIF(176x144)	88925 (cycles)
	Image histogram, fast (8-bit unsigned		
imgfasthist_gu8	grayscale) Image histogram, fast (8-bit unsigned	CIF (352x288)	342365 (cycles)
imgfasthist_gu8	grayscale) Image histogram, fast (8-bit unsigned	QVGA(320x240)	260381 (cycles)
imgfasthist_gu8	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)

			Cycles Measurements
Function Name	Description	Invocation parameters	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)	SOCIF(128x96)	25136 (cycles)
Imgraschorm_guo	Image normalization, fast (8-bit unsigned	SQCIF (120X90)	
imgfastnorm_gu8	grayscale)  Image normalization, fast (8-bit unsigned	QCIF(176x144)	49328 (cycles)
imgfastnorm_gu8	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	VGA (640x480)	540078 (cycles)
	grayscale)	SOCIF(128x96)	
imgnorm_gs8	Image normalization (8-bit signed grayscale)		35100 (cycles)
imgnorm_gs8	Image normalization (8-bit signed grayscale)  Image normalization (8-bit signed grayscale)	QCIF(176x144) CIF (352x288)	63840 (cycles) 209964 (cycles)
imgnorm_gs8			162500 (cycles)
imgnorm_gs8	Image normalization (8-bit signed grayscale)	QVGA (320x240)	
imgnorm_gs8	Image normalization (8-bit signed grayscale) Image normalization, fast (8-bit signed	VGA (640x480)	574524 (cycles)
imgfastnorm_gs8	grayscale) Image normalization, fast (8-bit signed	SQCIF(128x96)	23599 (cycles)
imgfastnorm_gs8	grayscale)	QCIF(176x144)	46161 (cycles)
imgfastnorm gs8	Image normalization, fast (8-bit signed grayscale)	CIF (352x288)	171439 (cycles)
	Image normalization, fast (8-bit signed		
imgfastnorm_gs8	grayscale)  Image normalization, fast (8-bit signed	QVGA (320x240)	130879 (cycles)
imgfastnorm_gs8	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_nonline ar	Image normalization, nonlinear (8-bit unsigned grayscale)	SQCIF(128x96)	54500 (cycles)
imgnorm_gu8_nonline	Image normalization, nonlinear (8-bit unsigned		105932 (cycles)
ar imgnorm_gu8_nonline	grayscale)  Image normalization, nonlinear (8-bit unsigned	QCIF(176x144)	105932 (Cycles)
ar imgnorm gu8 nonline	grayscale)  Image normalization, nonlinear (8-bit unsigned	CIF (352x288)	389253 (cycles)
ar	grayscale)	QVGA(320x240)	297500 (cycles)
imgnorm_gu8_nonline ar	Image normalization, nonlinear (8-bit unsigned grayscale)	VGA (640x480)	1132580 (cycles)
imgfastnorm_gu8_non	Image normalization, fast, nonlinear (8-bit		
linear imgfastnorm_gu8_non	unsigned grayscale) Image normalization, fast, nonlinear (8-bit	SQCIF(128x96)	49264 (cycles)
linear imgfastnorm gu8 non	unsigned grayscale) Image normalization, fast, nonlinear (8-bit	QCIF(176x144)	98081 (cycles)
linear	unsigned grayscale)	CIF (352x288)	373554 (cycles)
imgfastnorm_gu8_non linear	Image normalization, fast, nonlinear (8-bit unsigned grayscale)	QVGA(320x240)	284417 (cycles)
imgfastnorm_gu8_non linear	Image normalization, fast, nonlinear (8-bit	VGA (640x480)	
TTHEAT	unsigned grayscale)	VGA (04UX48U)	1106418 (cycles)

1		Invocation	Cycles Measurements
Function Name	Description	parameters	RI2020.4, HiFi4 with VFPU, bd5
	<pre>Image normalization, nonlinear (8-bit signed grayscale)</pre>	SQCIF(128x96)	58100 (cycles)
	Image normalization, nonlinear (8-bit signed grayscale)	QCIF(176x144)	113056 (cycles)
imgnorm_gs8_nonline	Tmage normalization, nonlinear (8-bit signed grayscale)	CIF (352x288)	416323 (cycles)
imgnorm_gs8_nonline	Tmage normalization, nonlinear (8-bit signed grayscale)	QVGA(320x240)	318012 (cycles)
imgnorm_gs8_nonline	mage normalization, nonlinear (8-bit signed grayscale)		
imgfastnorm_gs8_non	Image normalization, fast, nonlinear (8-bit	VGA (640x480)	1212020 (cycles)
imgfastnorm_gs8_non	signed grayscale) Image normalization, fast, nonlinear (8-bit	SQCIF(128x96)	48786 (cycles)
linear imgfastnorm gs8 non	signed grayscale) Image normalization, fast, nonlinear (8-bit	QCIF(176x144)	97361 (cycles)
	signed grayscale) Image normalization, fast, nonlinear (8-bit	CIF (352x288)	372115 (cycles)
linear imgfastnorm gs8 non	signed grayscale)  Image normalization, fast, nonlinear (8-bit	QVGA (320x240)	283217 (cycles)
linear	signed grayscale)	VGA (640x480)	1104019 (cycles)
ear	Image normalization, nonlinear (16-bit grayscale)	SQCIF(128x96)	38989 (cycles)
	<pre>Image normalization, nonlinear (16-bit grayscale)</pre>	QCIF(176x144)	77485 (cycles)
	Image normalization, nonlinear (16-bit grayscale)	CIF (352x288)	294351 (cycles)
	Tmage normalization, nonlinear (16-bit grayscale)	QVGA(320x240)	224173 (cycles)
imgnorm_gs16_nonlin	grayscate, Tmage normalization, nonlinear (16-bit grayscale)	VGA (640x480)	-
imgfastnorm_gs16_no	Image normalization, fast, nonlinear (16-bit		870733 (cycles)
imgfastnorm_gs16_no	grayscale) Image normalization, fast, nonlinear (16-bit	SQCIF(128x96)	35534 (cycles)
	grayscale) Image normalization, fast, nonlinear (16-bit	QCIF(176x144)	70575 (cycles)
	grayscale) Image normalization, fast, nonlinear (16-bit	CIF (352x288)	267854 (cycles)
	grayscale) Image normalization, fast, nonlinear (16-bit	QVGA (320x240)	204015 (cycles)
nlinear	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 imgfastdeinterleave	Image deinterleave, fast (8-bit)	CIF(352x288)	106291 (cycles)
16	Image deinterleave, fast (16-bit)	CIF (352x288)	144883 (cycles)
imgconvert_rgbyuv	<pre>Image RGB-&gt;YUV conversion (8-bit unsigned)</pre>	CIF (352x288)	985240 (cycles)
	<pre>Image RGB-&gt;YUV conversion (16-bit signed) Image RGB-&gt;YUV conversion, fast (8-bit</pre>	CIF (352x288)	609038 (cycles)
uv	unsigned)	CIF (352x288)	571166 (cycles)
imgfastconvert_rgby uv16	<pre>Image RGB-&gt;YUV conversion, fast (16-bit signed)</pre>	CIF (352x288)	390007 (cycles)
imgconvert_yuvrgb	Image YUV->RGB conversion (8-bit unsigned)	CIF (352x288)	1032940 (cycles)
imgconvert_yuvrgb16 imgfastconvert yuvr	<pre>Image YUV-&gt;RGB conversion (16-bit signed) Image YUV-&gt;RGB conversion, fast (8-bit</pre>	CIF (352x288)	668255 (cycles)
gb1	unsigned)	CIF (352x288)	556171 (cycles)
imgfastconvert_yuvr gb16	<pre>Image YUV-&gt;RGB conversion, fast (16-bit signed)</pre>	CIF (352x288)	390573 (cycles)
imgpad gu8	<pre>Image padding/cropping (8-bit unsigned grayscale)</pre>	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)

		Investion	Cycles Measurements
Function Name	Description	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
		>QCIF(176x144)	
imgfastpad_gu8	Image padding/cropping, fast (8-bit unsigned grayscale)	padding, SQCIF(128x96) - >QCIF(176x144) padding,	7709 (cycles)
imgfastpad_gs8	<pre>Image padding/cropping, fast (8-bit signed grayscale)</pre>	SQCIF(128x96)- >QCIF(176x144)	7744 (cycles)
imgfastpad_gs16	<pre>Image padding/cropping, fast (16-bit grayscale)</pre>	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	<pre>Image padding/cropping (8-bit unsigned grayscale)</pre>	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	<pre>Image padding/cropping (8-bit signed grayscale)</pre>	cropping, CIF (352x288)- >SQCIF(128x96)	17529 (cycles)
imgpad_gs8	<pre>Image padding/cropping (8-bit signed grayscale)</pre>	cropping, CIF (352x288)- >QCIF(176x144)	29412 (cycles)
imgpad_gs8	<pre>Image padding/cropping (8-bit signed grayscale)</pre>	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	<pre>Image padding/cropping, fast (8-bit unsigned grayscale)</pre>	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	<pre>Image padding/cropping, fast (8-bit signed   grayscale)</pre>	cropping, QCIF(176x144)- >SQCIF(128x96)	4707 (cycles)
imgfastpad_gs8	<pre>Image padding/cropping, fast (8-bit signed   grayscale)</pre>	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	<pre>Image padding/cropping, fast (16-bit grayscale)</pre>	cropping, QCIF(176x144)- >SQCIF(128x96)	6611 (cycles)
imgfastpad_gs16	Image padding/cropping, fast (16-bit grayscale)	cropping, CIF (352x288)- >SQCIF(128x96)	7469 (cycles)

		Invocation	Cycles Measurements
Function Name	Description	parameters	RI2020.4, HiFi4 with VFPU, bd5
imgfastpad_gs16	Image padding/cropping, fast (16-bit grayscale)	cropping, CIF (352x288)- >QCIF(176x144)	11997 (cycles)
imgfastpad_gs16	<pre>Image padding/cropping, fast (16-bit grayscale)</pre>	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.

		Cycles Measurements
Function name	Invocation parameters	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)

		Cycles Measurements
Function name	Invocation parameters	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 N: 80; M: 256	12075 (2.7 MACs/cycle)
bkfir32x16_process bkfir32x16 process	N: 80; M: 256 N: 80; M: 512	3628 (5.6 MACs/cycle) 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 bkfir32x32_process	N: 2048; M: 4 N: 2048; M: 8	9233 (0.9 MACs/cycle) 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 N: 80; M: 16	1540 (1.7 MACs/cycle)
bkfir32x32ep_process bkfir32x32ep_process	N: 512; M: 32	780 (1.6 MACs/cycle) 6933 (2.4 MACs/cycle)
bkfir32x32ep_process 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 bkfira32x32_process	N: 80; M: 256 N: 80; M: 512	5608 (3.7 MACs/cycle) 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 bkfira32x32ep_process	N: 2048; M: 8 N: 160; M: 8	19997 (0.8 MACs/cycle) 1588 (0.8 MACs/cycle)
bkfira32x32ep_process bkfira32x32ep_process	N: 160; M: 8 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 cxfir32x16 process	N: 2048; M: 4 N: 2048; M: 8	22548 (1.5 MACs/cycle) 31252 (2.1 MACs/cycle)
cxfir32x16 process	N: 2048; M: 8 N: 160; M: 8	2458 (2.1 MACs/cycle)
cxfir32x16 process	N: 160; M: 6 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)

		Cycles Measurements
Function name	Invocation parameters	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 cxfir32x32_process	N: 512; M: 32 N: 1024; M: 32	20053 (3.3 MACs/cycle) 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 N: 160; M: 8	33127 (2.0 MACs/cycle) 2604 (2.0 MACs/cycle)
cxfir32x32ep_process cxfir32x32ep_process	N: 160; M: 8 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 stereo_bkfir16x16_process	N: 2048; M: 8 N: 160; M: 8	28136 (1.2 MACs/cycle) 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 stereo bkfir32x32 process	N: 160; M: 8 N: 160; M: 16	1875 (1.4 MACs/cycle) 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 bkfirf process	N: 1024; M: 512 N: 512; M: 32	137756 (3.8 MACs/cycle) 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 stereo bkfirf process	N: 1024; M: 256 N: 1024; M: 512	150597 (3.5 MACs/cycle) 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	N. 1024, M. 2. D. 2	CE14 (0.2 MRC=/1-)
firdec16x16_process firdec16x16 process	N: 1024; M: 2; D: 2 N: 1024; M: 256; D: 2	6514 (0.3 MACs/cycle) 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 firdec16x16 process	N: 1024; M: 256; D: 3 N: 1024; M: 260; D: 3	59741 (4.4 MACs/cycle) 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 firdec16x16 process	N: 1024; M: 261; D: 4 N: 1024; M: 256; D: 5	40102 (6.7 MACs/cycle) 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 firdec32x16 process	N: 1024; M: 4; D: 2 N: 1024; M: 8; D: 2	7290 (0.6 MACs/cycle) 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 firdec32x16 process	N: 1024; M: 261; D: 2 N: 80; M: 256; D: 2	39973 (6.7 MACs/cycle) 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 firdec32x16 process	N: 1024; M: 260; D: 3 N: 1024; M: 261; D: 3	50339 (5.3 MACs/cycle) 51335 (5.2 MACs/cycle)
process	1021/ II. 201/ D. O	01000 (0.2 PMC0/CYC1E)

		Cycles Measurements
Function name	Invocation parameters	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) 44069 (6.1 MACs/cycle)
firdec32x16_process firdec32x16 process	N: 1024; M: 261; D: 4 N: 1024; M: 256; D: 5	44069 (6.1 MACs/cycle) 96135 (2.7 MACs/cycle)
firdec32x16_process	N: 1024; M: 250; 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 firdec32x32_process	N: 1024; M: 4; D: 3 N: 1024; M: 8; D: 3	9636 (0.4 MACs/cycle) 10735 (0.8 MACs/cycle)
firdec32x32_process	N: 1024; M: 8; D: 3 N: 1024; M: 16; D: 3	10/35 (0.8 MACS/cycle) 12255 (1.3 MACS/cycle)
firdec32x32_process	N: 1024; M: 16; D: 3 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 firdec32x32ep_process	N: 80; M: 256; D: 2 N: 1024; M: 2; D: 2	5703 (3.6 MACs/cycle) 7755 (0.3 MACs/cycle)
firdec32x32ep_process	N: 1024, M: 2, D: 2	7755 (0.5 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 4; 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 firdec32x32ep_process	N: 1024; M: 261; D: 3 N: 1024; M: 2; D: 4	76323 (3.5 MACs/cycle) 9457 (0.2 MACs/cycle)
firdec32x32ep_process firdec32x32ep process	N: 1024; M: 2; D: 4  N: 1024; M: 4; D: 4	9457 (0.2 MACS/cycle) 9457 (0.4 MACS/cycle)
firdec32x32ep_process	N: 1024; M: 4; D: 4 N: 1024; M: 8; D: 4	10532 (0.8 MACs/cycle)
firdec32x32ep_process	N: 1024; M: 0; D: 4 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)

		Cycles Measurements
Function name	Invocation parameters	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 N: 1024; M: 512; D: 11	211993 (1.2 MACs/cycle) 375833 (1.4 MACs/cycle)
firdecf_process firdecf process	N: 1024; M: 512; D: 11 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 firinterp16x16 process	N: 1024; M: 256; D: 2 N: 1024; M: 260; D: 2	80539 (6.5 MACs/cycle) 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 firinterp16x16 process	N: 1024; M: 260; D: 4 N: 1024; M: 256; D: 5	163744 (6.5 MACs/cycle) 202963 (6.5 MACs/cycle)
firinterp16x16 process	N: 1024; M: 250; 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 firinterp32x16 process	N: 1024; M: 4; D: 2 N: 1024; M: 8; D: 2	8487 (1.0 MACs/cycle) 10194 (1.6 MACs/cycle)
firinterp32x16_process	N: 1024; M: 6; D: 2 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 firinterp32x16 process	N: 1024; M: 8; D: 3 N: 1024; M: 16; D: 3	17788 (1.4 MACs/cycle) 20447 (2.4 MACs/cycle)
firinterp32x16_process	N: 1024; M: 16; 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 firinterp32x16 process	N: 1024; M: 260; D: 4 N: 1024; M: 256; D: 5	158635 (6.7 MACs/cycle) 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 N: 80; M: 204; D: 8	310827 (6.0 MACs/cycle) 22703 (5.8 MACs/cycle)
firinterp32x16_process 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 firinterp32x32_process	N: 1024; M: 260; D: 2 N: 1024; M: 4; D: 3	142122 (3.7 MACs/cycle) 22057 (0.6 MACs/cycle)
firinterp32x32_process	N: 1024; M: 4; 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 N: 1024; M: 8; D: 4	27945 (0.6 MACs/cycle)
firinterp32x32_process firinterp32x32_process	N: 1024; M: 8; D: 4 N: 1024; M: 256; D: 4	33067 (1.0 MACs/cycle) 287017 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024, M: 250, D: 4 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 firinterp32x32_process	N: 1024; M: 260; D: 6 N: 1024; M: 256; D: 7	436009 (3.7 MACs/cycle) 500777 (3.7 MACs/cycle)
firinterp32x32_process	N: 1024; M: 256; D: 7	500777 (3.7 MACS/Cycle) 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 firinterp32x32ep_process	N: 1024; M: 16; D: 2 N: 1024; M: 32; D: 2	19236 (1.7 MACs/cycle) 27428 (2.4 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 32; D: 2 N: 1024; M: 256; D: 2	142116 (3.7 MACs/cycle)
	1	(11, 11100, 01010)

		Cycles Measurements
Function name	Invocation parameters	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 firinterp32x32ep_process	N: 1024; M: 256; D: 3 N: 1024; M: 260; D: 3	219562 (3.6 MACs/cycle) 222632 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 260; D: 3	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 firinterp32x32ep_process	N: 1024; M: 260; D: 5 N: 1024; M: 256; D: 6	372778 (3.6 MACs/cycle)
firinterp32x32ep_process	N: 1024; M: 256; D: 6	440362 (3.6 MACs/cycle) 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 firinterpf process	N: 1024; M: 256; D: 3 N: 1024; M: 512; D: 3	221465 (3.6 MACs/cycle) 418072 (3.8 MACs/cycle)
firinterpi_process firinterpf process	N: 1024; M: 512; D: 3 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 fir_convol32x16	N: 80; M: 56 N: 80; M: 60	943 (4.8 MACs/cycle)
fir convol32x16	N: 256; M: 80	948 (5.1 MACs/cycle) 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 fir_convola16x16	N: 256; M: 80 N=80; M=56	6418 (3.2 MACs/cycle) 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 fir_convola32x32	N: 256; M: 84 N=80; M=56	4262 (5.0 MACs/cycle) 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 cxfir convola32x16	N: 256; M: 80 N: 80; M: 56	16456 (5.0 MACs/cycle) 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 fir xcorr16x16	N: 80; M: 56 N: 256; M: 80	884 (5.1 MACs/cycle) 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 fir xcorr32x32ep	N: 256; M: 80 N: 80; M: 56	5578 (3.7 MACs/cycle) 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 fir xcorra32x16	N: 256; M: 80 N: 80; M: 56	3869 (5.3 MACs/cycle) 1121 (4.0 MACs/cycle)
fir xcorra32x16	N: 80; M: 50	1206 (4.0 MACs/cycle)
moorradearo	1	(I.o Imico, eyele)

		Cycles Measurements
Function name	Invocation parameters	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 fir xcorra32x32ep	N: 80; M: 56 N: 256; M: 80	1696 (2.6 MACs/cycle) 6644 (3.1 MACs/cycle)
fir lxcorra16x16	N: 236; M: 60 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 fir acorr16x16	N: 80 N: 256	1148 (5.6 MACs/cycle) 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 fir acorra16x16	N=80 N=256	1295 (4.9 MACs/cycle) 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 fir_lacorra16x16	N=80 N=256	803 (4.0 MACs/cycle) 5259 (6.2 MACs/cycle)
fir_lacorra10x10	N=256 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 fir_blms16x16	N: 64; M: 64	1757 (4.7 MACs/cycle)
fir blms16x16	N: 80; M: 64 N: 80; M: 128	2085 (4.9 MACs/cycle) 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 fir_blms16x32	N: 64; M: 64	1683 (4.9 MACs/cycle) 2011 (5.1 MACs/cycle)
fir blms16x32	N: 80; M: 64 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 fir blms32x32	N: 64; M: 64	2411 (3.4 MACs/cycle)
fir blms32x32	N: 80; M: 64 N: 80; M: 128	2957 (3.5 MACs/cycle) 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 fir blms32x32ep	N: 64; M: 64 N: 80; M: 64	2734 (3.0 MACs/cycle) 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 N: 64; M: 64	2592 (3.2 MACs/cycle)
cxfir_blms32x32 cxfir blms32x32	N: 64; M: 64 N: 80; M: 64	9084 (3.6 MACs/cycle) 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 fir convolaf	N: 256; M: 80	6917 (3.0 MACs/cycle) 1993 (2.2 MACs/cycle)
fir_convolat	N: 80; M: 56 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) 2027 (2.2 MACs/cycle)
fir_xcorraf fir xcorraf	N: 80; M: 56 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 fir acorraf	N: 80 N: 256	2621 (2.4 MACs/cycle) 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)

		Cycles Measurements
Function name	Invocation parameters	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 cxfir blmsf	N: 64; M: 128 N: 80; M: 16	5454 (3.0 MACs/cycle)
cxfir_blmsf	N: 64; M: 16	3053 (3.4 MACs/cycle) 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) 12656 (2.9 MACs/cycle)
conv2d_3x3_8x8 conv2d 5x5 8x8	M=3,N=3,P=64,Q=64 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 conv2d_3x3_16x16	M=11,N=7,P=256,Q=256	849272 (5.9 MACs/cycle) 10466 (3.5 MACs/cycle)
conv2d_3x3_16x16	M=3,N=3,P=64,Q=64 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_11x/_10x10	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 bqriir16x16_df1	N=256, M=2, gain=1 N=256, M=3, gain=0	1311 (2.6 cycles/(biquad*pts) 2007 (2.6 cycles/(biquad*pts)
bgriir16x16_df1	N=256, M=3, gain=0 N=256, M=4, gain=1	2507 (2.6 cycles/(biquad*pts) 2507 (2.4 cycles/(biquad*pts)
bgriir16x16_df1	N=256, M=4, gain=1 N=256, M=5, gain=0	3200 (2.4 cycles/(biquad*pts)
bgriir16x16_df1	N=256, M=6, gain=1	3696 (2.4 cycles/(biquad*pts)
bgriir16x16 df1	N=256, M=7, gain=0	4385 (2.4 cycles/(biquad*pts)
bgriir16x16 df1	N=256, M=8, gain=1	4890 (2.4 cycles/(biquad*pts)
bgriir16x16 df1	N=80, M=5, gain=0	1086 (2.7 cycles/(biquad*pts)
bgriir16x16 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 bqriir32x16_df1	N=256, M=3, gain=0 N=256, M=4, gain=1	1641 (2.1 cycles/(biquad*pts) 1817 (1.8 cycles/(biquad*pts)
ndrittosxio_all	1N-230, M-4, Gail-1	roi/ (1.8 cycles/(biquad*pts)

Record   Ministry   Description   Proceeding parameter   Proceeding   Proceeding   Proceeding   Proceeding   Proceeding   Proceeding   Proceding   P			Cycles Measurements
Egging 2024 6 001	Function name	•	RI2020.4, HiFi4 with VFPU, bd5
Exprisoration   Sept.   New York, Park   Sept.   Sep			
Depart   17.0.4   Gell   18.75   New   gellers   17.1   C.   Cycles / Liqued   18.1   17.2   Cycles / Liqued   18.1   Cycles / Liqued   18.			
Mary 12316, 671	_		
Begilistanic del	1		
Begistrack   de2	_		
Degriff2223	_		
### Spring	bqriir32x16_df2	N=256, M=2, gain=1	1114 (2.2 cycles/(biquad*pts)
Sept   1.23   Sept	bqriir32x16_df2	N=256, M=3, gain=0	1754 (2.3 cycles/(biquad*pts)
Degilizazile df2			
### Degriff2328 degr			
### Degriff23216 df2	_		
Egging 2015   N=00, N=5, quan=0   993   2.3 eyelse/(biquadrps)			
Degitis23216 at 2			
Begri:123282 df1			
Begling   Begl			
Begriir   1823   182   1825   184   1931   1932   18   1825   184   1931   1932   18   1825   184   1931   1932   18   1825   184   1932   184			
bgrii:23x32 df1			
bgri:72832 df1	bqriir32x32 df1	N=256, M=4, gain=1	1792 (1.8 cycles/(biquad*pts)
Degrif132322 df1	bqriir32x32_df1	N=256, M=5, gain=0	2420 (1.9 cycles/(biquad*pts)
bgrir:73x32 df]	bqriir32x32_df1	N=256, M=6, gain=1	2591 (1.7 cycles/(biquad*pts)
bgriir32x32 dfl N=80, M=5, gain=0 bgriir32x32 dfl N=80, M=5, gain=1 bgriir32x32 dfl N=256, M=1, gain=0 bgriir32x32 df2 N=256, M=1, gain=0 bgriir32x32 df2 N=256, M=2, gain=1 bgriir32x32 df2 N=256, M=3, gain=0 bgriir32x32 df2 N=256, M=3, gain=0 bgriir32x32 df2 N=256, M=4, gain=1 bgriir32x32 df2 N=256, M=5, gain=0 bgriir32x32 df2 N=256, M=6, gain=1 bgriir32x32 df2 N=256, M=6, gain=1 bgriir32x32 df2 N=256, M=6, gain=1 bgriir32x32 df2 N=256, M=6, gain=0 bgriir32x32 df2 N=256, M=6, gain=1 bgriir32x32 df2 N=256, M=7, gain=0 bgriir32x32 df3 N=256, M=7, gain=0 bgriir32x32 df1 N=			
Septimization   Septimizatio			
Degrisf2X32 df2			
	_		
bgriir12832 df2			
Dgriir12832 df2	_		
bgriir 2x32 df2			
bgriir12832 df2	_		
bgriir2x32 df2			
bgri1732x32 df2	bqriir32x32_df2	N=256, M=7, gain=0	5127 (2.9 cycles/(biquad*pts)
Degris   2	bqriir32x32_df2	N=256, M=8, gain=1	5923 (2.9 cycles/(biquad*pts)
Stereo bgriir16x16 df1			
Stereo Dqriir16x16 df1	_		
Stereo   Dqriir16x16   dfi			
Stereo Dqriir16x16 df1			
Stereo bqriir16x16 df1			1 1 1
Stereo Dqriir16x16 df1			
Stereo Dgriir16x16 df1			
Stereo Dqriir16x16 df1			
Stereo bqriir18x16 df1			
Stereo bgriir32x16 df1	stereo_bqriir16x16_df1	N=80, M=5, gain=0	2368 (5.9 cycles/(biquad*pts)
Stereo   Deprim   Deprim   Stereo   Deprim   D	stereo_bqriir16x16_df1		2369 (5.9 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 bqriir32x16 df1         N=80, M=5, gain=1         2343 (5.9 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=5, gain=0         5266 (4.1 cycles/(biquad*pts)           stereo bqriir32x32 df1 <th< td=""><td>stereo_bqriir32x16_df1</td><td></td><td>1606 (6.3 cycles/(biquad*pts)</td></th<>	stereo_bqriir32x16_df1		1606 (6.3 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 bqriir32x32 df1         N=80, M=5, gain=1         2343 (5.9 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=7, gain=1         1586 (6.2 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=7, gain=1         2905 (5.7 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=7, gain=0         3424 (4.5 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=3, gain=0         3424 (4.5 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=6, gain=1         4746 (4.6 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=6, gain=1         6587 (4.3 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=6, gain=1         6587 (4.3 cycles/(biquad*pts)           stereo bqriir32x32 df1         <			
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 bqriir32x12 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=7, gain=0         7103 (4.0 cycles/(biquad*pts)           stereo bqriir32x32 df1         <			
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 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=8, gain=1         8425 (4.1 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=8, gain=1         8425 (4.1 cycles/(biquad*pts)           stereo bqriir32x32 df1 <t< td=""><td></td><td></td><td></td></t<>			
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=6, gain=0         5266 (4.1 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=6, gain=1         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=6, gain=1         7103 (4.0 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=6, gain=1         8425 (4.1 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=80, M=5, gain=0         7103 (4.0 cycles/(biquad*pts)           stereo bqriir32x32 df1 <t< td=""><td></td><td></td><td></td></t<>			
stereo bgriir32x16 df1         N=256, M=8, gain=1         9631 (4.7 cycles/(biquad*pts)           stereo bgriir32x16 df1         N=80, M=5, gain=0         2016 (5.0 cycles/(biquad*pts)           stereo bgriir32x16 df1         N=80, M=5, gain=1         2343 (5.9 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=1, gain=0         1586 (6.2 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=2, gain=1         2905 (5.7 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=3, gain=0         3424 (4.5 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=4, gain=1         4746 (4.6 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=5, gain=0         5266 (4.1 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=6, gain=1         6587 (4.3 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=7, gain=0         7103 (4.0 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=256, M=8, gain=1         8425 (4.1 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=80, M=5, gain=0         1746 (4.4 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=80, M=5, gain=1         8425 (4.1 cycles/(biquad*pts)           stereo bgriir32x32 df1         N=80, M=5, gain=0         1746 (4.4 cycles/(biquad*pts)           stereo bgriir32x32 df1			
stereo         bgriir32x16 df1         N=80, M=5, gain=0         2016 (5.0 cycles/(biquad*pts)           stereo         bgriir32x16 df1         N=80, M=5, gain=1         2343 (5.9 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=1, gain=0         1586 (6.2 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=2, gain=1         2905 (5.7 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=3, gain=0         3424 (4.5 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=4, gain=1         4746 (4.6 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=5, gain=0         5266 (4.1 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=6, gain=1         6587 (4.3 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=7, gain=0         7103 (4.0 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=256, M=8, gain=1         8425 (4.1 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=80, M=5, gain=0         1746 (4.4 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=80, M=5, gain=0         1746 (4.4 cycles/(biquad*pts)           stereo         bgriir32x32 df1         N=80, M=5, gain=0         1746 (4.4 cycles/(biquad*pt			
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=2, gain=0       3424 (4.5 cycles/(biquad*pts)         stereo bqriir32x32 df1       N=256, M=4, gain=0       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=0       1746 (4.4 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=0       1746 (4.6 cycles/(biquad*pts)         stereo bqriir32x32 df1       N=80, M=5, gain=0       1746 (4.6 cycles/(biquad*pts)         bqriirf df1       N=80, M=5, gain=0       1746 (4.6 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=6, gain=1         6587 (4.3 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=256, M=8, gain=1         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         7103 (4.0 cycles/(biquad*pts)           stereo bqriir32x32 df1         N=80, M=5, gain=0         7104 (4.4 cycles/(biquad*pts)           bqriirf df1         N=80, M=5, gain=1         2076 (5.2 cycles/(biquad*pts)           bqriirf df1         N=512, M=2         4696 (4.6 cycles/(biquad*pts)           bqriirf df1         N=512, M=4         7797 (5.1 cycles/(biquad*pts)           bqriirf df1         N=512, M=8         11201 (2.7 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=0       1746 (4.4 cycles/(biquad*pts)         stereo bqriir32x32 df1       N=80, M=5, gain=0       1746 (4.2 cycles/(biquad*pts)         stereo bqriir32x32 df1       N=80, M=5, gain=0       1746 (4.2 cycles/(biquad*pts)         bqriirf df1       N=512, M=1       3416 (6.7 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=8       11201 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=1       16613 (2.7 cycles/(			
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=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=4       5723 (2.8 cycles/(biquad*pts)         bqriirf df1       N=512, M=8       11201 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=8       11201 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=1       16613 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=16       22090 (2.7 cycles/(biquad*pts)	stereo_bqriir32x32_df1	N=256, M=2, gain=1	2905 (5.7 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=80, M=5, gain=1       3416 (6.7 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=4       5723 (2.8 cycles/(biquad*pts)         bqriirf df1       N=512, M=8       11201 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=2       16613 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=1       16613 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=16       22090 (2.7 cycles/(biquad*pts)	stereo_bqriir32x32_df1	N=256, M=3, gain=0	3424 (4.5 cycles/(biquad*pts)
stereo_bqriir32x32_df1       N=256, M=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=0       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=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)			
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=8       11201 (2.7 cycles/(biquad*pts)         bqriirf_df1       N=512, M=12       16613 (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)			
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=12       16613 (2.7 cycles/(biquad*pts)         bqriirf df1       N=512, M=16       22090 (2.7 cycles/(biquad*pts)			1 1 1
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)			
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 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_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_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_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_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)		, ,	
bgriirf_df1         N=512, M=12         16613 (2.7 cycles/(biquad*pts)           bgriirf_df1         N=512, M=16         22090 (2.7 cycles/(biquad*pts)			
bgriirf_df1 N=512, M=16 22090 (2.7 cycles/(biquad*pts)			
		·	

		Cycles Measurements
Function name	Invocation parameters	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)
bgriirf_df2	N=512, M=4	5211 (2.5 cycles/(biquad*pts) 10113 (2.5 cycles/(biquad*pts)
bqriirf_df2 bqriirf_df2	N=512, M=8 N=512, M=12	15016 (2.4 cycles/(biquad*pts)
bgriirf df2	N=512, M=16	19919 (2.4 cycles/(biquad*pts)
bgriirf df2t	N=512, M=1	4703 (9.2 cycles/(biquad*pts)
bgriirf df2t	N=512, M=2	4425 (4.3 cycles/(biguad*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_dfl	N=512, M=8	18674 (4.6 cycles/(biquad*pts)
bqciirf_df1 bqciirf_df1	N=512, M=12 N=512, M=16	26981 (4.4 cycles/(biquad*pts) 36798 (4.5 cycles/(biquad*pts)
stereo bqriirf df1	N=512, M=1	3135 (6.1 cycles/(biquad*pts)
stereo bgriiri dii	N=512, M=1 N=512, M=2	5735 (6.1 cycles/(biquad*pts)
stereo bariiri dil	N=512, M=3	7820 (5.1 cycles/(biquad*pts)
stereo bqriirf dfl	N=512, M=4	10418 (5.1 cycles/(biquad*pts)
stereo bgriirf 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 bgriirf dfl	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)
bgriir16x16_df1_nd	N=256, M=7, gain=0 N=256, M=8, gain=1	4443 (2.5 cycles/(biquad*pts)
bqriir16x16_df1_nd bqriir16x16 df1 nd		4960 (2.4 cycles/(biquad*pts)
bgriir16x16 df1 nd	N=80, M=5, gain=0 N=80, M=5, gain=1	1124 (2.8 cycles/(biquad*pts) 1124 (2.8 cycles/(biquad*pts)
bgriir16x16_df2_nd	N=256, M=1, gain=0	795 (3.1 cycles/(biquad*pts)
bgriir16x16 df2 nd	N=256, M=2, gain=1	1321 (2.6 cycles/(biquad*pts)
bgriir16x16 df2 nd	N=256, M=3, gain=0	2115 (2.8 cycles/(biquad*pts)
bgriir16x16 df2 nd	N=256, M=4, gain=1	2640 (2.6 cycles/(biquad*pts)
bgriir16x16 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)
bgriir32x16_df1_nd	N=256, M=1, gain=0	811 (3.2 cycles/(biquad*pts)
bgriir32x16_df1_nd	N=256, M=2, gain=1	985 (1.9 cycles/(biquad*pts)
bqriir32x16_df1_nd bqriir32x16_df1_nd	N=256, M=3, gain=0	1633 (2.1 cycles/(biquad*pts)
bqriir32x16_df1_nd bgriir32x16_df1_nd	N=256, M=4, gain=1 N=256, M=5, gain=0	1809 (1.8 cycles/(biquad*pts) 2454 (1.9 cycles/(biquad*pts)
bgriir32x16_df1_nd	N=256, M=5, gain=0 N=256, M=6, gain=1	2628 (1.7 cycles/(biquad*pts)
bgriir32x16_df1_nd	N=256, M=7, gain=0	3275 (1.8 cycles/(biquad*pts)
bgriir32x16 df1 nd	N=256, M=8, gain=1	3451 (1.7 cycles/(biquad*pts)
bgriir32x16 df1 nd	N=80, M=5, gain=0	867 (2.2 cycles/(biquad*pts)
bgriir32x16 df1 nd	N=80, M=5, gain=1	924 (2.3 cycles/(biquad*pts)
bgriir32x16 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)
bgriir32x16_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)
bgriir32x32_df1_nd	N=256, M=2, gain=1	976 (1.9 cycles/(biquad*pts)
bqriir32x32_df1_nd bqriir32x32_df1_nd	N=256, M=3, gain=0 N=256, M=4, gain=1	1606 (2.1 cycles/(biquad*pts) 1782 (1.7 cycles/(biquad*pts)
bqriir32x32_df1_nd bqriir32x32_df1_nd	N=256, M=4, gain=1 N=256, M=5, gain=0	2412 (1.9 cycles/(biquad*pts)
MATTITOENDE_UIT_IIU	n 200, m-0, gain-0	zitz (t.) cyctes/(biquad.brs)

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
bgriir32x32 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 bqriir32x32_df2_nd	N=256, M=1, gain=0 N=256, M=2, gain=1	800 (3.1 cycles/(biquad*pts) 1601 (3.1 cycles/(biquad*pts)
bgriir32x32_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) 1270 (3.2 cycles/(biquad*pts)
bqriir32x32_df2_nd stereo bqriir16x16 df1 nd	N=80, M=5, gain=1 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 bgriir16x16 df1 nd	N=256, M=3, gain=0	4774 (6.2 cycles/(biquad*pts)
stereo bgriir16x16 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 stereo bqriir16x16_df1_nd	N=256, M=8, gain=1 N=80, M=5, gain=0	10880 (5.3 cycles/(biquad*pts) 2444 (6.1 cycles/(biquad*pts)
stereo bqriir16x16 df1 nd	N=80, M=5, gain=0 N=80, M=5, gain=1	2444 (6.1 cycles/(biquad*pts) 2444 (6.1 cycles/(biquad*pts)
stereo bgriir32x16 df1 nd	N=256, M=1, gain=0	1597 (6.2 cycles/(biquad*pts)
stereo bgriir32x16 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 stereo bqriir32x16_df1_nd	N=256, M=7, gain=0 N=256, M=8, gain=1	8021 (4.5 cycles/(biquad*pts) 9624 (4.7 cycles/(biquad*pts)
stereo bgriir32x16 df1 nd	N=80, M=5, gain=0	2007 (5.0 cycles/(biquad*pts)
stereo bgriir32x16 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 stereo bqriir32x32_df1_nd	N=256, M=5, gain=0 N=256, M=6, gain=1	5259 (4.1 cycles/(biquad*pts) 6578 (4.3 cycles/(biquad*pts)
stereo bqriir32x32 df1 nd	N=256, M=7, gain=0	7096 (4.0 cycles/(biquad*pts)
stereo bgriir32x32 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)
bgriirf_df1_nd	N=512, M=2	6518 (6.4 cycles/(biquad*pts) 9628 (6.3 cycles/(biquad*pts)
bqriirf_df1_nd bqriirf df1 nd	N=512, M=3 N=512, M=4	9628 (6.3 cycles/(biquad*pts) 9381 (4.6 cycles/(biquad*pts)
bgriirf df1 nd	N=512, M=8	18466 (4.5 cycles/(biquad*pts)
bgriirf 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 bqriirf df2 nd	N=512, M=3	6536 (4.3 cycles/(biquad*pts) 8613 (4.2 cycles/(biquad*pts)
bgriirf df2 nd	N=512, M=4 N=512, M=8	16935 (4.1 cycles/(biquad*pts)
bgriirf 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)
bgriirf_df2t_nd bgriirf_df2t_nd	N=512, M=4 N=512, M=8	8534 (4.2 cycles/(biquad*pts) 16760 (4.1 cycles/(biquad*pts)
bgriirf df2t nd	N=512, M=8 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_dfl_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_dfl_nd bqciirf_dfl_nd	N=512, M=8 N=512, M=12	20877 (5.1 cycles/(biquad*pts) 30852 (5.0 cycles/(biquad*pts)
bqciirf_dfl_nd bqciirf_dfl_nd	N=512, M=12 N=512, M=16	41208 (5.0 cycles/(biquad*pts)
stereo bgriirf df1 nd	N=512, M=10 N=512, M=1	3131 (6.1 cycles/(biquad*pts)
<u> </u>	1 '	(

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
stereo_bqriirf_dfl_nd	N=512, M=2	6742 (6.6 cycles/(biquad*pts)
stereo bqriirf_df1_nd stereo bqriirf_df1_nd	N=512, M=3	8824 (5.7 cycles/(biquad*pts)
stereo bqriiri dfl nd	N=512, M=4 N=512, M=8	12433 (6.1 cycles/(biquad*pts) 23815 (5.8 cycles/(biquad*pts)
stereo bgriirf dfl 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	N 012/ N 10	10070 (017 Spersor (Siquad pes)
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 latr16x16 process	N=256, M=8 N=256, M=9	2599 (1.3 cycles/(sample*M) 11022 (4.8 cycles/(sample*M)
latr16x16 process	N=236, M=9 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 N=256, M=7	2336 (1.5 cycles/(sample*M)
latr32x32_process latr32x32 process	N=256, M=8	2851 (1.6 cycles/(sample*M) 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	V 000	2016 (10 1
vec_recip16x16	N=200 N=200	2016 (10.1 cycles/pts)
vec_recip32x32 vec_recip64x64	N=200 N=200	2632 (13.2 cycles/pts) 4333 (21.7 cycles/pts)
vec_recipt4x64	N=200	2019 (10.1 cycles/pts)
vec_divide10x10	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 N=200	730 (3.6 cycles/pts)
vec_tan32x32	N=200	2899 (14.5 cycles/pts)
vec_atan32x32 vec sqrt16x16	N=200 N=200	1030 (5.2 cycles/pts) 1152 (5.8 cycles/pts)
vec_sqrt16x16	N=200 N=200	1152 (5.8 cycles/pts) 1560 (7.8 cycles/pts)
vec_sqrt32x16 vec sqrt32x32	N=200 N=200	1251 (6.3 cycles/pts)
vec_sqrt32x32 vec_sqrt64x32	N=200 N=200	1231 (6.3 cycles/pts) 1244 (6.2 cycles/pts)
	11 200	. 12 17 10.4 CVC1CD/DLD/
	N=200	
vec_rsqrt16x16 vec_rsqrt32x32	N=200 N=200	2296 (11.5 cycles/pts) 2951 (14.8 cycles/pts)

		Cycles Measurements
Function name	Invocation parameters	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 vec sinef	N=200 N=200	225 (1.1 cycles/pts) 2995 (15.0 cycles/pts)
vec_sinef	N=200 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 vec_antilognf	N=200 N=200	1144 (5.7 cycles/pts)
vec_antilogni vec_antilog10f	N=200 N=200	1148 (5.7 cycles/pts) 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 Math Functions	N=200	214 (1.1 cycles/pts)
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_recipioxio		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 scl_logn_32x32		17 (cycles) 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 scl sqrt64x32		20 (cycles) 32 (cycles)
scl sine32x32		16 (cycles)
scl cosine32x32		16 (cycles)
scl_tan32x32		44 (cycles)
scl_atan32x32		21 (cycles)
scl_rsqrt16x16		34 (cycles)
scl_rsqrt32x32 scl sigmoid32x32		42 (cycles) 30 (cycles)
scl tanh32x32		30 (cycles)
scl relu32x32		4 (cycles)
scl_int2float		2 (cycles)
scl_float2int		7 (cycles)
scl_sinef		82 (cycles)
scl_cosinef	0.4	81 (cycles)
scl_tanf scl_tanf	x=0.4 x=1.2	82 (cycles) 99 (cycles)
scl_tani scl log2f	Δ-1.2	61 (cycles)
scl log10f		61 (cycles)
scl_lognf		62 (cycles)
scl_antilog2f		36 (cycles)
scl_antilog10f		36 (cycles)
scl_antilognf	1 1	35 (cycles)
scl_powf	x=1 y=1	85 (cycles)
scl_powf scl atanf	x=1.25 y=0.75 x=0.7	225 (cycles) 45 (cycles)
scl_atani scl_atanf	x=0.7 x=1.3	62 (cycles)
scl atan2f		80 (cycles)
scl sigmoidf		75 (cycles)
	-	

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
scl tanhf	·	87 (cycles)
scl_reluf		5 (cycles)
Complex Functions		
Vectorized Complex Math		0415 (15 1 2 4 )
vec_complex2mag vec_complex2invmag	N=200 N=200	3415 (17.1 cycles/pts) 2567 (12.8 cycles/pts)
Complex Functions	N-200	2307 (12.0 Cycles/pts)
Scalar Complex Math		
scl_complex2mag		67 (cycles)
scl_complex2invmag		63 (cycles)
Vector Operations		
vec_dot16x16 vec_dot32x16	N=200 x aligned, N=200	120 (0.6 cycles/pts)
vec_dot32x16	x unaligned, N=200	117 (0.6 cycles/pts) 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 vec_dot32x16_fast	N=200 N=200	65 (0.3 cycles/pts) 86 (0.4 cycles/pts)
vec_dot32x10_fast vec_dot32x32_fast	N=200 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 vec_dot_batch16x16	N=200, M=16 N=200, M=16	1339 (0.4 cycles/pts) 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 vec_add32x32	x aligned, N=200 x unaligned, N=200	213 (1.1 cycles/pts) 211 (1.1 cycles/pts)
vec_add32x32 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 vec_power16x16 fast	x unaligned, N=200 N=200	70 (0.3 cycles/pts) 40 (0.2 cycles/pts)
vec_power10x10_1dst	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 vec_shift32x32	shift<0, x unaligned, N=200 x aligned, N=200	93 (0.5 cycles/pts)
vec_shift32x32	x unaligned, N=200 x unaligned, N=200	215 (1.1 cycles/pts) 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 vec_shift16x16_fast	shift>0, N=200 shift<0, N=200	104 (0.5 cycles/pts) 72 (0.4 cycles/pts)
vec_shift16x16_fast 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 vec_min16x16	x aligned, N=200 x unaligned, N=200	124 (0.6 cycles/pts) 124 (0.6 cycles/pts)
vec_minitoxito	N=200	124 (0.6 cycles/pts) 124 (0.6 cycles/pts)
vec_max32x32	N=200 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 vec_bexp32	N=200 N=200	121 (0.6 cycles/pts) 119 (0.6 cycles/pts)
vec_bexp32 vec_bexp16 fast	N=200 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)

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
vec dotf	N=200	238 (1.2 cycles/pts)
vec_dot1	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 vec_maxf	N=200 N=200	116 (0.6 cycles/pts) 112 (0.6 cycles/pts)
vec_maxi	N=200	127 (0.6 cycles/pts)
scl bexpf	N 200	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 scl mac 32x16ef		15 (cycles) 29 (cycles)
Matrix Operations		25 (Cycies)
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 mtx mpy8x8 fast	8x32 x 32x2 16x16 x 16x16	592 (0.9 MACs/cycle) 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 40x82 x 82x8	20325 (1.3 MACs/cycle) 20197 (1.3 MACs/cycle)
mtx_mpyt8x8 mtx mpyt8x8	40x82 x 62x6 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 mtx mpyt8x8 fast	8x4 x 4x4	162 (0.8 MACs/cycle) 235 (2.2 MACs/cycle)
mtx_mpyt8x8_fast mtx_mpyt8x8_fast	8x16 x 16x4 8x32 x 32x4	362 (2.8 MACs/cycle)
mtx mpytoxo_rast	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 mtx mpy8x16 fast	16x16 x 16x16 32x32 x 32x32	1679 (2.4 MACs/cycle) 10575 (3.1 MACs/cycle)
mtx_mpy8x16_fast 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)
	1 2 22 27 27 2	,. (111 12100, 0 <sub>1</sub> 010)

mer mpyras 6 fast			Cycles Measurements
March	Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
International	mtx mpy8x16 fast	8x16 x 16x4	204 (2.5 MACs/cycle)
1846   12.4   1866   52.82   2.202   1.344   12.4   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2   1866   5.000   1.2	mtx_mpy8x16_fast	<u> </u>	-
Michael			
Michange			
mex myprescié de 30 % 20 % 20 % 20 % 20 % 20 % 20 % 20 %			
Mark			
Mark	mtx_mpyt8x16		
MIX. mpy18x16	mtx_mpyt8x16		-
miss mpyths16			
mes_mpy@sk16			
max   myytext  6   fast			-
max mpyt8x16 fast	_ 11		
max mpytexis f East	mtx mpyt8x16 fast		
NEXT   PROPERTIES   Fast   SR4   K   149   (1.0   MACS/cycle)	mtx_mpyt8x16_fast	8x80 x 80x4	526 (4.9 MACs/cycle)
mix mpythsile fast			-
mix mypthalid fast		<u> </u>	
mix mpylox16   16x16 x 16x16   1697 (2.4 MACG/cycle)   1839 x 32x3 x 32x32   8399 x 32x9 (2.4 MACG/cycle)   18x16 mix mpylox16   40x80 x 80x8   4742 (5.4 MACG/cycle)   18x16 mix mpylox16   40x80 x 80x8   4742 (5.4 MACG/cycle)   18x16 mix mpylox16   40x82 x 81x8   4936 (5.2 MACG/cycle)   18x16 mix mpylox16   40x82 x 82x8   4940 (5.2 MACG/cycle)   18x16 mix mpylox16   40x82 x 82x8   4950 (5.2 MACG/cycle)   18x16 mix mpylox16   40x82 x 82x8   4950 (5.2 MACG/cycle)   18x16 mix mpylox16   40x83 x 85x8   4952 (5.4 MACG/cycle)   18x16 mix mpylox16   40x83 x 85x8   4952 (5.4 MACG/cycle)   18x16 mix mpylox16   40x83 x 85x8   4952 (5.4 MACG/cycle)   18x16 mix mpylox16   40x83 x 85x8   4952 (5.4 MACG/cycle)   18x16 mix mpylox16   40x83 x 85x8   4952 (5.4 MACG/cycle)   18x16 mix mpylox16   40x83 x 85x8   4952 (5.4 MACG/cycle)   18x16 mix mpylox16   40x83 x 85x8   40x2   40x83 x 85x8			-
mtx mpyl6x16			
mtx mpy16x16	mtx mpy16x16		
mix mpy[6x16	mtx_mpy16x16		
mtx myyl 6x16	mtx_mpy16x16		
mx myy16x16	mtx_mpy16x16		
mix mpy16x16   40x85 x 85x8   5116 (3.3 MACs/cycle) mix mpy16x16   40x86 x 86x8   5119 (5.4 MACs/cycle) mix mpy16x16   40x86 x 86x8   5119 (5.4 MACs/cycle) mix mpy16x16   40x88 x 88x8   5100 (5.5 MACs/cycle) mix mpy16x16   2x100 x 100x8   833 (1.9 MACs/cycle) mix mpy16x16   2x100 x 100x8   833 (1.9 MACs/cycle) mix mpy16x16   8x80 x 80x2   621 (2.1 MACs/cycle) mix mpy16x16   8x80 x 80x2   621 (2.1 MACs/cycle) mix mpy16x16   8x40 x 4x2   136 (0.3 MACs/cycle) mix mpy16x16   8x16 x 16x2   2x32 x 32x2   259 (1.0 MACs/cycle) mix mpy16x16   8x16 x 16x2   2x32 x 32x2   259 (1.0 MACs/cycle) mix mpy16x16   8x16 x 16x16 x 16x16   10.5 x 16x16 x 16x1			
mtx mpy16x16			
mtx mpy16x16			
mtx mpy16x16         40x88 x 88x8         5100 (5.5 MACs/cycle)           mtx mpy16x16         2x100 x 100x8         833 (1.9 MACs/cycle)           mtx mpy16x16         8x6 x 80x2         621 (2.1 MACs/cycle)           mtx mpy16x16         8x6 x 4x2         196 (0.3 MACs/cycle)           mtx mpy16x16         8x16 x 16x2         269 (1.0 MACs/cycle)           mtx mpy16x16         8x12 x 32x2         356 (1.4 MACs/cycle)           mtx mpy16x16 fast         15x16 x 16x16         1679 (2.4 MACs/cycle)           mtx mpy16x16 fast         32x32 x 32x32         355 (1.1 MACs/cycle)           mtx mpy16x16 fast         8x80 x 80x4         587 (4.4 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         533 (5.1 MACs/cycle)           mtx mpy16x16 fast         8x16 x 16x4         535 (2.7 MACs/cycle)           mtx mpy16x16 fast         8x16 x 16x4         203 (2.5 MACs/cycle)           mtx mpy16x16 fast         8x16 x 16x16         15x12 (2.7 MACs/cycle)           mtx mpy16x16 fast         8x16 x 16x16         15x12 (2.7 MACs/cycle)           mtx mpy16x16 fast         8x16 x 16x16         15x12 (2.7 MACs/cycle)			
mtx mpy16x16	mtx mpy16x16		
mix mpy16x16         8x4 x 4x2         196 (0.3 MaCs/cycle)           mix mpy16x16         8x16 x 16x2         269 (1.0 MaCs/cycle)           mix mpy16x16         8x32 x 32x2         356 (1.4 MaCs/cycle)           mix mpy16x16 fast         16x16 x 16x16         16x16 x 16x16         16x16 x 16x16           mix mpy16x16 fast         32x32 x 32x32         10575 (3.1 MaCs/cycle)           mix mpy16x16 fast         8x80 x 80x4         587 (4.4 MaCs/cycle)           mix mpy16x16 fast         8x84 x 84x4         587 (4.4 MaCs/cycle)           mix mpy16x16 fast         8x4 x 4x4         135 (0.9 MaCs/cycle)           mix mpy16x16 fast         8x16 x 16x4         135 (0.9 MaCs/cycle)           mix mpy16x16 fast         8x32 x 32x4         299 (3.4 MaCs/cycle)           mix mpy16x16 fast         8x32 x 32x4         299 (3.4 MaCs/cycle)           mix mpy16x16 fast         8x32 x 32x4         299 (3.4 MaCs/cycle)           mix mpy16x16 fast         8x32 x 32x3         780 (4.2 MaCs/cycle)           mix mpy16x16 fast         8x32 x 32x3         780 (4.2 MaCs/cycle)           mix mpy16x16 fast         4x32 x 32x32         780 (4.2 MaCs/cycle)           mix mpy16x16 fast         4x32 x 32x32         780 (4.2 MaCs/cycle)           mix mpy16x16 fast         4x32 x 32x32         780 (4.2	mtx_mpy16x16	2x100 x 100x8	853 (1.9 MACs/cycle)
mtx mpy16x16	mtx_mpy16x16		
mtx mpy16x16	mtx_mpy16x16		-
mtx mpy16x16 fast			
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         8x80 x 80x4         581 (5.1 MACs/cycle)           mtx mpy16x16 fast         8x4 x 4x4         135 (0.9 MACs/cycle)           mtx mpy16x16 fast         8x4 x 4x4         203 (2.5 MACs/cycle)           mtx mpy16x16 fast         8x32 x 32x4         299 (3.4 MACs/cycle)           mtx mpy16x16 fast         16x16 x 16x16         1542 (2.7 MACs/cycle)           mtx mpy16x16         3x32 x 32x32         7806 (4.2 MACs/cycle)           mtx mpy16x16         3x321 x 32x32         7806 (4.2 MACs/cycle)           mtx mpy16x16         40x80 x 80x8         4474 (5.7 MACs/cycle)           mtx mpy16x16         40x80 x 80x8         4618 (5.6 MACs/cycle)           mtx mpy16x16         40x80 x 80x8         4618 (5.6 MACs/cycle)           mtx mpy16x16         40x80 x 80x8         4619 (5.7 MACs/cycle)           mtx mpy16x16         40x82 x 82x8         4619 (5.7 MACs/cycle)           mtx mpy16x16         40x82 x 82x8         4619 (5.7 MACs/cycle)           mtx mpy16x16         40x82 x 82x8         4619 (5.7 MACs/cycle)           mtx mpy16x16         8x80 x 80x2         531 (2.4 MACs/cycle)			-
mtx mpy16x16 fast			
mtx mpy16x16 fast			
mtx mpy16x16 fast 8x16 x 16x4 203 (2.5 MACs/cycle) mtx mpy16x16 fast 8x32 x 32x4 299 (3.4 MACs/cycle) mtx mpy16x16 16x16 x 16x16 15x16 15x2 (2.7 MACs/cycle) mtx mpy116x16 32x32 x 32x32 7806 (4.2 MACs/cycle) mtx mpy116x16 40x80 x 80x8 474 (5.7 MACs/cycle) mtx mpy116x16 40x80 x 80x8 474 (5.7 MACs/cycle) mtx mpy116x16 40x81 x 81x8 4618 (5.6 MACs/cycle) mtx mpy116x16 40x82 x 82x8 4618 (5.6 MACs/cycle) mtx mpy116x16 40x82 x 82x8 4619 (5.7 MACs/cycle) mtx mpy116x16 22x100 x 100x8 612 (2.6 MACs/cycle) mtx mpy116x16 8x80 x 80x2 531 (2.4 MACs/cycle) mtx mpy16x16 8x80 x 80x2 531 (2.4 MACs/cycle) mtx mpy16x16 8x16 x 16x2 247 (1.0 MACs/cycle) mtx mpy16x16 8x16 x 16x2 247 (1.0 MACs/cycle) mtx mpy16x16 8x16 x 16x2 247 (1.0 MACs/cycle) mtx mpy16x16 fast 16x16 x 16x16 1455 (2.8 MACs/cycle) mtx mpy16x16 fast 16x16 x 16x16 1455 (5.5 MACs/cycle) mtx mpy16x16 fast 8x80 x 80x4 465 (5.5 MACs/cycle) mtx mpy16x16 fast 32x32 x 32x32 7776 (4.2 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 469 (5.7 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 469 (5.7 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 469 (5.7 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 47 (1.0 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 47 (1.0 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 47 (1.0 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 47 (1.0 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 47 (1.0 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 47 (1.0 MACs/cycle) mtx mpy16x16 fast 8x84 x 84x4 47 (1.0 MACs/cycle) mtx mpy16x16 fast 8x16 x 16x16 (1.0 MACs/cycle) mtx mpy32x32 (1.0	mtx_mpy16x16_fast	8x84 x 84x4	
mtx mpy16x16 fast         8x32 x 32x4         299 (3.4 MACs/cycle)           mtx mpyt16x16         16x16 x 16x16         15x12 (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         40x83 x 83x8         4625 (5.7 MACs/cycle)           mtx mpyt16x16         8x80 x 80x2         531 (2.4 MACs/cycle)           mtx mpyt16x16         8x80 x 80x2         531 (2.4 MACs/cycle)           mtx mpyt16x16         8x80 x 80x2         158 (2.6 MACs/cycle)           mtx mpyt16x16         8x16 x 16x2         247 (1.0 MACs/cycle)           mtx mpyt16x16         8x16 x 16x2         247 (1.0 MACs/cycle)           mtx mpyt16x16         8x16 x 16x16         16x16 x 16x16           mtx mpyt16x16         8x16 x 16x16         16x16 x 16x16           mtx mpyt16x16 fast         18x32 x 32x32         318 (1.6 MACs/cycle)           mtx mpyt16x16 fast         8x84 x 84x4         4x84           mtx mpyt16x16 fast	mtx_mpy16x16_fast		-
mtx mpyt16x16	mtx_mpy16x16_fast		
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         8x80 x 80x2         198 (0.3 MACs/cycle)           mtx mpyt16x16         8x80 x 80x2         198 (0.3 MACs/cycle)           mtx mpyt16x16         8x16 x 16x2         247 (1.0 MACs/cycle)           mtx mpyt16x16         8x16 x 16x2         318 (1.6 MACs/cycle)           mtx mpyt16x16         8x32 x 32x2         318 (1.6 MACs/cycle)           mtx mpyt16x16         8x32 x 32x2         318 (1.4 MACs/cycle)           mtx mpyt16x16         8x32 x 32x2         318 (1.4 MACs/cycle)           mtx mpyt16x16         8x32 x 32x2         318 (1.4 MACs/cycle)           mtx mpyt16x16         8x80 x 80x4         465 (5.5 MACs/cycle)           mtx mpyt16x16         6xst x 16x4         465 (5.5 MACs/cycle)           mtx mpyt16x16			
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         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         8x16 x 16x2         247 (1.0 MACs/cycle)           mtx mpyt16x16         8x16 x 16x2         247 (1.0 MACs/cycle)           mtx mpyt16x16         8x16 x 16x16         1455 (2.8 MACs/cycle)           mtx mpyt16x16         8x16 x 16x16         1455 (2.8 MACs/cycle)           mtx mpyt16x16         16x16 x 16x16         1455 (2.8 MACs/cycle)           mtx mpyt16x16         18x82 x 32x32         32x32 x 32x32           mtx mpyt16x16         18x84 x 84x4         469 (5.7 MACs/cycle)           mtx mpyt16x16         18x84 x 4x4         139 (0.9 MACs/cycle)           mtx mpy32x32			
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         8x16 x 16x2         247 (1.0 MACs/cycle)           mtx mpyt16x16         8x32 x 32x2         318 (1.6 MACs/cycle)           mtx mpyt16x16         8x32 x 32x2         318 (1.6 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         4x44         139 (0.9 MACs/cycle)           mtx mpyt16x16 fast         8x4 x 4x4         139 (0.9 MACs/cycle)           mtx mpyt16x16 fast         8x32 x 32x4         205 (2.5 MACs/cycle)           mtx mpyt16x16 fast         8x4 x 4x4         139 (0.9 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         8x32 x 32x32         7776 (4.2 MACs/cycle)           mtx mpyt16x16         fast         16x16 x 16x16           mtx mpyt16x16         fast         8x80 x 80x4         465 (5.5 MACs/cycle)           mtx mpyt16x16         fast         8x80 x 80x4         465 (5.5 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			
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         465 (5.5 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         mpyt16x16 fast         8x32 x 32x4         273 (3.8 MACs/cycle)           mtx         mpyt16x16 fast         8x32 x 32x4         273 (3.8 MACs/cycle)           mtx         mpy16x16 fast         8x32 x 32x2         32x4	mtx_mpyt16x16	40x82 x 82x8	4619 (5.7 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         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         8x16 x 16x4         205 (2.5 MACs/cycle)           mtx mpy32x32         16x16 x 16x16         233 (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         40x81 x 81x8         9219 (2.8 MACs/cycle)           mtx mpy32x32         40x81 x 81x8         9210 (2.9 MACs/cycle)	mtx_mpyt16x16		
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         mpyt16x16 fast         8x32 x 32x32         273 (3.8 MACs/cycle)           mtx         mpyt16x16 fast         8x36 x 16x4         205 (2.5 MACs/cycle)           mtx         mpyt16x16 fast         8x36 x 16x4         205 (2.5 MACs/cycle)           mtx         mpyt16x16 fast         8x32 x 32x2         273 (3.8 MACs/cycle)           mtx         mpy32x32         16x16 x 16x1         273 (3.8 MAC	mtx_mpyt16x16		
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         8x16 x 16x4         205 (2.5 MACs/cycle)           mtx mpyt16x16 fast         8x32 x 32x4         273 (3.8 MACs/cycle)           mtx mpy32x32         16x16 x 16x4         2838 (1.4 MACs/cycle)           mtx mpy32x32         16x16 x 16x16         2838 (1.4 MACs/cycle)           mtx mpy32x32         40x80 x 80x8         8994 (2.8 MACs/cycle)           mtx mpy32x32         40x81 x 81x8         9219 (2.8 MACs/cycle)           mtx mpy32x32         40x81 x 81x8         9219 (2.8 MACs/cycle)           mtx mpy32x32         40x83 x 80x8         9207 (2.9 MACs/cycle)           mtx mpy32x32         8x80 x 80x2         809 (1.6 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         mpyt16x16 fast         8x32 x 32x4         273 (3.8 MACs/cycle)           mtx         mpy16x16 fast         8x32 x 32x4         273 (3.8 MACs/cycle)           mtx         mpy32x32         16x16 x 16x16         2838 (1.4 MACs/cycle)           mtx         mpy32x32         40x80 x 80x8         8994 (2.8 MACs/cycle)           mtx         mpy32x32         40x80 x 80x8         9219 (2.8 MACs/cycle)           mtx         mpy32x32         40x80 x 80x8         9219 (2.8 MACs/cycle)           mtx         mpy32x32         40x80 x 80x8         920 (2.8 MACs/cyc	_ 11		
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         14710         (2.2 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	mtx mpyt16x16	<u> </u>	-
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         mpyt16x16         fast         8x32 x 32x4         273 (3.8 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         40x80 x 80x8         8994 (2.8 MACs/cycle)           mtx         mpy32x32         40x81 x 81x8         9219 (2.8 MACs/cycle)           mtx         mpy32x32         40x82 x 82x8         9219 (2.8 MACs/cycle)           mtx         mpy32x32         40x83 x 83x8         9553 (2.8 MACs/cycle)           mtx         mpy32x32         8x80 x 80x2         809 (1.6 MACs/cycle)           mtx         mpy32x32         8x4 x 4x2         158 (0.4 MACs/cycle)	mtx_mpyt16x16_fast		
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_fast       16x16 x 16x16       1815 (2.3 MACs/cycle)	mtx_mpyt16x16_fast	32x32 x 32x32	
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 fast       16x16 x 16x16       1815 (2.3 MACs/cycle)	mtx_mpyt16x16_fast		-
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       8x16 x 16x2       265 (1.0 MACs/cycle)         mtx mpy32x32 fast       16x16 x 16x16       1815 (2.3 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       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     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		
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		
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		
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		
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		
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     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     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 8x32 x 32x2 401 (1.3 MACs/cycle) mtx_mpy32x32_fast 16x16 x 16x16 1815 (2.3 MACs/cycle)	mtx mpy32x32	<u> </u>	-
mtx_mpy32x32_fast	mtx_mpy32x32		
mtx mpy32x32 fast 32x32 x 32x32 11726 (2.8 MACs/cycle)	mtx_mpy32x32_fast	16x16 x 16x16	1815 (2.3 MACs/cycle)
	mtx_mpy32x32_fast	32x32 x 32x32	11726 (2.8 MACs/cycle)

		Cycles Measurements
Function name	Invocation parameters	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 mtx mpyt32x32	32x32 x 32x32 40x80 x 80x8	17588 (1.9 MACs/cycle) 10493 (2.4 MACs/cycle)
mtx_mpyt32x32	40x81 x 81x8	10493 (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 mtx mpyt32x32_fast	32x32 x 32x32 8x80 x 80x4	10767 (3.0 MACs/cycle) 748 (3.4 MACs/cycle)
mtx_mpyt32x32_fast 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 mtx vecmpy8x16	40x40 x 40x1 16x100 x 100x1	450 (3.6 MACs/cycle) 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 mtx vecmpy16x16 fast	16x104 x 104x1 40x40 x 40x1	326 (5.1 MACs/cycle) 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 M=16,N=16	674 (2.4 MACs/cycle)
mtx_transpose8x8 mtx transpose8x8	M=16, N=16 M=27, N=27	629 (0.41 pts/cycle) 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 mtx transpose16x16	M=32,N=32 M=39,N=39	1606 (0.64 pts/cycle)
mtx_transpose16x16 mtx_transpose16x16	M=39, N=39 M=48, N=48	2337 (0.65 pts/cycle) 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)

Punclion name			Cycles Measurements
max parametal Nat2 fast	Function name	Invocation parameters	RI2020.4. HiFi4 with VFPU. bd5
max unamposelànià East   Medijinedi   1621,140 pte/pele)   1621,140 pte/	mtx transpose32x32 fast	•	· · ·
Max   Myst		M=32, N=32	
### ### ### ### ### ### ### ### ### ##			
### ### ### ### ### ### ### ### ### ##	_ * *		
Mark			
Mark			
Mex.   May   Mex.   M	_ * *		
## ## ## ## ## ## ## ## ## ## ## ## ##		40x83 x 83x8	8623 (3.1 MACs/cycle)
Back   Acc   152   (0.4 MACS/cycle)	mtx_mpyf		
RNX mpyE			
## ## ## ## ## ## ## ## ## ## ## ## ##			
## NEX MPMY FAST			
MIX   MDV   Fast   32328 x 32324   12268 (2.7 MAGS/cycle)   mix   mpyf foot   8x80 x 80048   842 (3.0 MAGS/cycle)   mix   mpyf foot   8x80 x 8044   874 (3.1 MAGS/cycle)   mix   mpyf foot   8x80 x 8444   150 (0.9 MAGS/cycle)   mix   mpyf foot   8x16 x 16x4   150 (0.9 MAGS/cycle)   mix   mpyf foot   8x16 x 16x4   150 (0.9 MAGS/cycle)   mix   mpyf foot   8x16 x 16x4   16x (0.9 MAGS/cycle)   mix   mpyf foot   8x16 x 16x4   16x (0.9 MAGS/cycle)   mix   mpyf   1	_ * *		
mix mpyf fast			
mtx mpyf fast	mtx_mpyf_fast		842 (3.0 MACs/cycle)
mtx myvf fast			
mcx mpyf fast			
mex mpytf			
mtx mpyrf			
mtx mpytf			
mtx mpytf	_ * *		
mtx mpytf	mtx_mpytf	40x81 x 81x8	7883 (3.3 MACs/cycle)
mex mpyrf			
mtx mpytf			
mtx mpyff	_ * *		
mix mpyff 8x16 x 16x2			
mix mpytf fast 16x16 x 16x16 1973 (2.1 MACs/cycle) mix mpytf fast 32x32 x 32x32 11805 (2.8 MACs/cycle) mix mpytf fast 3x32 x 32x32 11805 (2.8 MACs/cycle) mix mpytf fast 8x80 x 80x4 178 (3.3 MACs/cycle) mix mpytf fast 8x80 x 80x4 167 (0.8 MACs/cycle) mix mpytf fast 8x4 x 84x4 167 (0.8 MACs/cycle) mix mpytf fast 8x4 x 4x4 167 (0.8 MACs/cycle) mix mpytf fast 8x16 x 16x4 267 (1.9 MACs/cycle) mix mpytf fast 8x16 x 16x4 267 (1.9 MACs/cycle) mix mpytf fast 8x16 x 16x4 267 (1.9 MACs/cycle) mix mpytf fast 8x16 x 16x4 355 (2.6 MACs/cycle) mix wempytf 16x10 x 10x11 87 (1.8 MACs/cycle) mix wempytf 16x10 x 10x11 10x11 87 (1.8 MACs/cycle) mix wempytf 16x10 x 10x11 10x	_ * *		in the second se
mtx mpytf fast	_ * *		
mtx mpytf fast		16x16 x 16x16	
mtx mpytf fast         8x84 x 8x4         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         8x2 x 3xx4         355 (2.6 MACs/cycle)           mtx vempyf         16x100 x 100x1         872 (1.6 MACs/cycle)           mtx vempyf         16x101 x 101x1         919 (1.6 MACs/cycle)           mtx vempyf         16x101 x 103x1         878 (1.9 MACs/cycle)           mtx vempyf         16x103 x 103x1         1034 (1.6 MACs/cycle)           mtx vempyf         16x103 x 103x1         1034 (1.6 MACs/cycle)           mtx vempyf         16x104 x 104x1         1100 (1.5 MACs/cycle)           mtx vempyf         40x40 x 40x1         1100 (1.5 MACs/cycle)           mtx vempyf         40x40 x 40x1         1262 (1.3 MACs/cycle)           mtx vempyf fast         16x104 x 104x1         605 (2.6 MACs/cycle)           mtx vempyf fast         16x104 x 104x1         634 (2.6 MACs/cycle)           mtx vempyf fast         16x104 x 104x1         634 (2.6 MACs/cycle)           mtx vempyf fast         16x104 x 104x1         634 (2.6 MACs/cycle)           mtx vempyf fast         16x104 x 104x1         634 (2.6 MACs/cycle)           mtx vemp			-
mtx mpytf fast			
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         40x40 x 40x1         1262 (1.3 MACs/cycle)           mtx vecmpyf fast         16x104 x 100x1         605 (2.6 MACs/cycle)           mtx vecmpyf         40x40 x 40x1         1606 (2.6 MACs/cycle)           mtx vecmpyf fast         16x104 x 104x1         634 (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 vecmpyf fast         40x40 x 40x1         769 (2.1 MACs/cycle)           mtx vecmpyf         40x40 x 40x1         634 (2.6 MACs/cycle)           mtx transposef         M=16,N=16         424 (0.60 pts/cycle)           m			in the second se
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         16x104 x 104x1         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         16x104 x 104x1         634 (2.6 MACs/cycle)           mtx vecmpyf fast         40x40 x 40x1         636 (2.6 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=48,N=48         2960 (0.78 pts/cycle)           mtx transposef fast         M=16,N=16         238 (1.08 pts/cycle)           mtx transposef fast         M=6,N=48         87 (0.74 pts/cycle)			
mtx vecmpyf			
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         759 (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=39,N=39         1892 (0.073 pts/cycle)           mtx transposef         M=8,N=8         87 (0.74 pts/cycle)           mtx transposef fast         M=8,N=8         87 (0.74 pts/cycle)           mtx transposef fast         M=8,N=8         87 (0.74 pts/cycle)           mtx transposef fast         M=48,N=48         1648 (1.40 pts/cycle)           mtx transposef fast         M=48,N=48         1648 (1.40 pts/cycle)           mtx in			
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=32,N=39         1492 (0.80 pts/cycle)           mtx transposef         M=48,N=48         2960 (0.78 pts/cycle)           mtx transposef fast         M=6,N=16         87 (0.74 pts/cycle)           mtx transposef fast         M=6,N=16         238 (1.08 pts/cycle)           mtx transposef fast         M=32,N=32         784 (1.31 pts/cycle)           mtx iransposef fast         M=48,N=48         1648 (1.40 pts/cycle)           Matrix Decomposition and Inversion         675 (675.0 cycles/matrix)           cmtx inv3x3 32x32         675 (675.0 cycles/matrix)           cmtx inv4x4 32x32	mtx_vecmpyf	16x101 x 101x1	
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=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=6,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         10x4 pts/cycle)         1648 (1.40 pts/cycle)           Gutx inv2x3 32x32         575 (675.0 cycles/matrix) <td< td=""><td></td><td></td><td></td></td<>			
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=32,N=32         784 (1.31 pts/cycle)           mtx transposef fast         M=32,N=32         784 (1.31 pts/cycle)           Matrix Decomposition and Inversion         M=48,N=48         1648 (1.40 pts/cycle)           Matrix 10x22 32x32         353 (353.0 cycles/matrix)           cmtx inv3x3 32x32         353 (353.0 cycles/matrix)           cmtx inv8x8 32x32         165 (165.0 cycles/matrix)           cmtx inv2x2 32x32         165 (165.0 cycles/matrix)           mtx inv2x3 32x32         38 (38.0 cycles/matrix) <td></td> <td></td> <td></td>			
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)           mtx transposef fast         M=48,N=48         1648 (1.40 pts/cycle)           mtx transposef fast         M=48,N=48         1648 (1.40 pts/cycle)           mtx inv2x2 32x32         784 (1.31 pts/cycle)           mtx inv3x3 32x32         165 (675.0 cycles/matrix)           cmtx inv6x6 32x32         2957 (2957.0 cycles/matrix)           cmtx inv10x10 32x32         10264 (10264.0 cycles/ma			
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=6,N=6         87 (0.74 pts/cycle)           mtx transposef fast         M=16,N=16         238 (1.08 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)           mtx transposef fast         M=6,N=6         353 (353.0 cycles/matrix)           mtx invaposef fast         M=48,N=48         1648 (1.40 pts/cycle)           mtx invaposef fast         M=6,N=6         353 (353.0 cycles/matrix)           mtx invaya 32x32         353 (353.0 cycles/matrix)           cmtx inv3x3 32x32         475 (675.0 cycles/matrix)           cmtx inv6x6 32x32         <			
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=6, N=16         238 (1.08 pts/cycle)           mtx transposef fast         M=32, N=32         784 (1.31 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         Inversion         Inversion           Gmtx inv2x2 32x32         353 (353.0 cycles/matrix)           cmtx inv3x3 32x32         353 (353.0 cycles/matrix)           cmtx inv6x6 32x32         1165 (1165.0 cycles/matrix)           cmtx inv6x8 32x32         2957 (2957.0 cycles/matrix)           mtx inv2x2 32x32         38 (38.0 cycles/matrix)           mtx inv3x3 32x32         38 (38.0 cycles/matrix)           mt			in the second se
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=38, 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         Inversion         Gauss-Jordan           Gauss-Jordan         533 (353.0 cycles/matrix)           cmtx inv2x2 32x32         353 (353.0 cycles/matrix)           cmtx inv4x4 32x32         675 (675.0 cycles/matrix)           cmtx inv4x4 32x32         1165 (1165.0 cycles/matrix)           cmtx inv8x8 32x32         2957 (2957.0 cycles/matrix)           cmtx inv10x10 32x32         38 (38.0 cycles/matrix)           mtx inv2x2 32x32         38 (38.0 cycles/matrix)           mtx inv4x4 32x32         417 (417.0 cycles/matrix)           mtx inv4x4 32x32         638 (638.0 cycles/matrix)           mtx inv6x6 32x32         638 (638.0 cycles/matrix) </td <td></td> <td></td> <td></td>			
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     Inversion     Inversion       Gauss-Jordan     353 (353.0 cycles/matrix)       cmtx inv2x2 32x32     675 (675.0 cycles/matrix)       cmtx inv4x4 32x32     1165 (1165.0 cycles/matrix)       cmtx inv6x6 32x32     2957 (2957.0 cycles/matrix)       cmtx inv6x6 32x32     5650 (5650.0 cycles/matrix)       cmtx inv10x10 32x32     38 (38.0 cycles/matrix)       mtx inv3x3 32x32     38 (38.0 cycles/matrix)       mtx inv4x4 32x32     38 (38.0 cycles/matrix)       mtx inv6x6 32x32     1640 (1640.0 cycles/matrix)       mtx inv6x8 32x32     1640 (1640.0 cycles/matrix)       mtx inv8x8 32x32     1540 (5487.0 cycles/matrix)       mtx inv1	mtx_transposef	M=16, N=16	424 (0.60 pts/cycle)
mtx transposef     M=39,N=39     1892 (0.80 pts/cycle)       mtx transposef     M=46,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     Total composition and Inversion     Total composition and Inversion       Gauss-Jordan     567 (675.0 cycles/matrix)       cmtx inv3x3 32x32     675 (675.0 cycles/matrix)       cmtx inv3x3 32x32     1165 (1165.0 cycles/matrix)       cmtx inv6x6 32x32     2957 (2957.0 cycles/matrix)       cmtx inv10x10 32x32     5650 (5650.0 cycles/matrix)       mtx inv2x2 32x32     10264 (10264.0 cycles/matrix)       mtx inv3x3 32x32     417 (417.0 cycles/matrix)       mtx inv4x4 32x32     638 (638.0 cycles/matrix)       mtx inv4x4 32x32     638 (638.0 cycles/matrix)       mtx inv4x4 32x32     638 (638.0 cycles/matrix)       mtx inv6x6 32x32     1640 (1640.0 cycles/matrix)       mtx inv6x6 32x32     1640 (1640.0 cycles/matrix)       mtx inv6x8 32x32     2923 (2923.0 cycles/matrix)       mtx inv6x8 32x32     5487 (5487.0 cycles/matrix)       cmtx inv6x8 32x32     5487 (5487.0 cycles/matrix) </td <td></td> <td></td> <td></td>			
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         Inversion         Inversion           Gauss-Jordan         353 (353.0 cycles/matrix)           cmtx inv2x2 32x32         353 (353.0 cycles/matrix)           cmtx inv3x3 32x32         675 (675.0 cycles/matrix)           cmtx inv6x6 32x32         1165 (1165.0 cycles/matrix)           cmtx inv10x10 32x32         5650 (5650.0 cycles/matrix)           cmtx inv10x10 32x32         36 (38.0 cycles/matrix)           mtx inv3x3 32x32         38 (38.0 cycles/matrix)           mtx inv4x4 32x32         678 (675.0 cycles/matrix)           mtx inv4x4 32x32         678 (675.0 cycles/matrix)           mtx inv6x6 32x32         38 (38.0 cycles/matrix)           mtx inv6x6 32x32         678 (675.0 cycles/matrix)           mtx inv10x10 32x32         678 (675.0 cycles/matrix)           mtx inv10x10 32x32         5487 (5487.0 cycles/matrix)           cmtx gelim2x2 32x32         313 (			
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     Inversion     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 inv4x4 32x32     638 (638.0 cycles/matrix)       mtx inv4x4 32x32     638 (638.0 cycles/matrix)       mtx inv4x4 32x32     638 (639.0 cycles/matrix)       mtx inv6x6 32x32     1640 (1640.0 cycles/matrix)       mtx inv6x6 32x32     2923 (2923.0 cycles/matrix)       cmtx inv6x8 32x32     5487 (5487.0 cycles/matrix)       cmtx inv10x10 32x32     5487 (5487.0 cycles/matrix)			
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       Inversion       353 (353.0 cycles/matrix)         Gauss-Jordan       353 (353.0 cycles/matrix)       cmtx inv2x2 32x32         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 inv1x10 32x32       5650 (5650.0 cycles/matrix)         cmtx inv2x2 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 inv6x6 32x32       1640 (1640.0 cycles/matrix)         mtx inv8x8 32x32       5487 (5487.0 cycles/matrix)         cmtx inv10x10 32x32       5487 (5487.0 cycles/matrix)         cmtx gjelim2x2_32x32       5487 (5487.0 cycles/matrix)			
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       Inversion       Inversion         Gauss-Jordan       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 inv10x10 32x32       5650 (5650.0 cycles/matrix)         cmtx inv2x2 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       417 (417.0 cycles/matrix)         mtx inv8x8 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)		· ·	
Matrix Decomposition and Inversion  Gauss-Jordan  cmtx inv2x2 32x32  cmtx inv3x3 32x32  cmtx inv4x4 32x32  cmtx inv6x6 32x32  cmtx inv10x10 32x32  cmtx inv2x2 32x32  cmtx inv2x2 32x32  cmtx inv8x8 32x32			
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 5650 (5650.0 cycles/matrix)  mtx inv2x2 32x32 38 (38.0 cycles/matrix)  mtx inv3x3 32x32 38 (38.0 cycles/matrix)  mtx inv3x3 32x32 417 (417.0 cycles/matrix)  mtx inv4x4 32x32 638 (638.0 cycles/matrix)  mtx inv4x4 32x32 638 (638.0 cycles/matrix)  mtx inv6x6 32x32 1640 (1640.0 cycles/matrix)  mtx inv8x8 32x32 5487 (5487.0 cycles/matrix)  mtx inv8x8 32x32 5487 (5487.0 cycles/matrix)  cmtx gjelim2x2 32x32 5487 (5487.0 cycles/matrix)	mtx_transposef_fast	M=48, N=48	1648 (1.40 pts/cycle)
Gauss-Jordan       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 inv6x8_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 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)			<u> </u>
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)			353 (353 ) ovolee/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 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 inv6x6 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 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)			
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       2923.0 cycles/matrix)         mtx_inv10x10_32x32       5487 (5487.0 cycles/matrix)         cmtx_gjelim2x2_32x32       313 (313.0 cycles/matrix)			5650 (5650.0 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     2923.0 cycles/matrix)       mtx inv10x10 32x32     5487 (5487.0 cycles/matrix)       cmtx_gjelim2x2_32x32     313 (313.0 cycles/matrix)			in the state of th
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)			
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)			
mtx inv8x8 32x32       2923 (2923.0 cycles/matrix)         mtx_inv10x10_32x32       5487 (5487.0 cycles/matrix)         cmtx_gjelim2x2_32x32       313 (313.0 cycles/matrix)			
mtx_inv10x10_32x32       5487 (5487.0 cycles/matrix)         cmtx_gjelim2x2_32x32       313 (313.0 cycles/matrix)			
cmtx_gjelim2x2_32x32 313 (313.0 cycles/matrix)			
	cmtx_gjelim3x3_32x32		

		Cycles Measurements
Function name	Invocation parameters	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 mtx gjelim4x4 32x32		408 (408.0 cycles/matrix) 584 (584.0 cycles/matrix)
mtx gjelim4x4 32x32 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_32x 32	10x10x1	460 (460 0 gyalog/matriy)
cmatcholbkwsubst4x4 32x32	4x1	469 (469.0 cycles/matrix) 121 (121.0 cycles/matrix)
cmatcholbkwsubst6x6 32x32	6x1	153 (153.0 cycles/matrix)
cmatcholbkwsubst8x8 32x32	8x1	215 (215.0 cycles/matrix)
cmatcholbkwsubst10x10 32x		,
32	10x1	289 (289.0 cycles/matrix)
cmatcholmmsesolver4x4_32x 32	4x4x1	970 (970.0 cycles/matrix)
cmatcholmmsesolver6x6_32x 32	6x6x1	1670 (1670.0 cycles/matrix)
cmatcholmmsesolver8x8_32x 32	8x8x1	2785 (2785.0 cycles/matrix)
cmatcholmmsesolver10x10_3 2x32	10x10x1	4199 (4199.0 cycles/matrix)
cmatcholpreprocess4x4_32x 32	4x4	182 (182.0 cycles/matrix)
cmatcholpreprocess6x6_32x 32	6x6	423 (423.0 cycles/matrix)
cmatcholpreprocess8x8_32x 32	8x8	815 (815.0 cycles/matrix)
cmatcholpreprocess10x10_3 2x32	10×10	
cmatcholpseudoinv4x4_32x3		1350 (1350.0 cycles/matrix)
cmatcholpseudoinv6x6_32x3	4x4	1661 (1661.0 cycles/matrix)
cmatcholpseudoinv8x8_32x3	6x6	3390 (3390.0 cycles/matrix)
cmatcholpseudoinv10x10 32	8x8	6135 (6135.0 cycles/matrix)
x32	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 6x6x1	119 (119.0 cycles/matrix)
matcholfwdsubst6x6_32x32 matcholfwdsubst8x8 32x32	6x6x1 8x8x1	173 (173.0 cycles/matrix) 256 (256.0 cycles/matrix)
matcholfwdsubstl0x10_32x3 2	10x10x1	-
matcholbkwsubst4x4 32x32	4x1	325 (325.0 cycles/matrix) 84 (84.0 cycles/matrix)
matcholbkwsubst4x4_32x32 matcholbkwsubst6x6_32x32	6x1	123 (123.0 cycles/matrix)
matcholbkwsubst8x8 32x32	8x1	182 (182.0 cycles/matrix)
matcholbkwsubst10x10_32x3	10×1	235 (235.0 cycles/matrix)
matcholmmsesolver4x4_32x3	4x4x1	903 (903.0 cycles/matrix)
matcholmmsesolver6x6_32x3		-
۷	6x6x1	1502 (1502.0 cycles/matrix)

### ### ### #### #####################			Cycles Measurements
### 2317 (2317.0 cycles/matrix)  ### 2318 (2317.0 cycles/matrix)  ### 2319 (2317.0 cycles/matrix)	Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
	matcholmmsesolver8x8_32x3	8x8x1	2317 (2317.0 cycles/matrix)
matcholpreprocessive_223	matcholmmsesolver10x10_32 x32	10x10x1	
matchilpreprocessible 3732   Sec	matcholpreprocess4x4_32x3		
MacColipreprocessing   33/83	matcholpreprocess6x6_32x3		
matcholpeopolinysty	matcholpreprocess8x8_32x3	6x6	232 (232.0 cycles/matrix)
matchipseudoinviked 32x32	2 matcholpreprocess10x10 32	8x8	420 (420.0 cycles/matrix)
matcholpseudoinvises   32x32   8x8	x32 matcholpseudoinv4x4 32x32		
Matchigheeudolnv10x10 32x2   10x10	matcholpseudoinv6x6_32x32	6x6	2701 (2701.0 cycles/matrix)
10x10	matcholpseudoinv8x8_32x32	8x8	4578 (4578.0 cycles/matrix)
matcholdecomp8ef	32		
Compact   Comp			
cmatcholdecomplos10f			
	cmatcholdecomp10x10f		
Community   Comm	cmatcholfwdsubst4x4f		93 (93.0 cycles/matrix)
cmatcholfwdsubst10x10f	cmatcholfwdsubst6x6f		
Marticolbkssubstakaff			
matcholbkweubst&skf			
Description			
matcholmmsesolver6x4f	cmatcholbkwsubst8x8f		
1290   1290.0 cycles/matrix	cmatcholbkwsubst10x10f	10x1	
Comatcholmmsesolveri0x16f	cmatcholmmsesolver4x4f		
Compact   Comp			
Compact   Comp			
cmatcholpreprocess866f         6x6         297 (297.0 cycles/matrix)           cmatcholpreprocess818f         8x8         569 (569.0 cycles/matrix)           cmatcholpreprocess10x10f         10x10         943 (943.0 cycles/matrix)           cmatcholpseudoinv0x4f         4x4         864 (864.0 cycles/matrix)           cmatcholpseudoinv0x8f         8x8         1634 (1634.0 cycles/matrix)           cmatcholpseudoinv1x01f         10x10         4392 (4392.0 cycles/matrix)           matcholdecomp4x4f         4x4         407 (407.0 cycles/matrix)           matcholdecomp4x4f         4x4         407 (407.0 cycles/matrix)           matcholdecomp8x8f         8x8         762 (762.0 cycles/matrix)           matcholdecomp0x10f         10x10         1232 (1232.0 cycles/matrix)           matcholdecomp0x10f         10x10         1681 (1681.0 cycles/matrix)           matcholdecomp0x10f         10x10         1681 (1681.0 cycles/matrix)           matcholfwdsubst4x4f         4x4x1         72 (72.0 cycles/matrix)           matcholfwdsubst5x6f         6x6x1         98 (98.0 cycles/matrix)           matcholfwdsubst10x10f         10x1x1         160 (160.0 cycles/matrix)           matcholpxesubst3x4f         4x1         34 (34.0 cycles/matrix)           matcholpxesubst6x6f         6x6         6x1			
Compact   Comp			
Cmatcholpseudoinv4x4f	cmatcholpreprocess8x8f	8x8	
Cmatcholpseudoinv6x6f	cmatcholpreprocess10x10f	10x10	
Cmatcholpseudoinv0x8f	cmatcholpseudoinv4x4f		
matcholpseudoinv10x10f	*		
Matcholdecomp6x4f	*		
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)           matcholfwdsubst8x8f         6x6x1         98 (98.0 cycles/matrix)           matcholfwdsubst8x8f         8x8x1         129 (129.0 cycles/matrix)           matcholfwdsubst10x10f         10x10x1         160 (160.0 cycles/matrix)           matcholbxwsubst4x4f         4x1         34 (34.0 cycles/matrix)           matcholbxwsubst2x4f         4x1         34 (34.0 cycles/matrix)           matcholbxwsubst2x6x6f         6x1         52 (52.0 cycles/matrix)           matcholbxwsubst2x8f         8x1         67 (67.0 cycles/matrix)           matcholbxwsubst2x8f         8x1         67 (67.0 cycles/matrix)           matcholmsesolver4x4f         4x4x1         582 (582.0 cycles/matrix)           matcholmsesolver8xf         8x8x1         1496 (1496.0 cycles/matrix)           matcholmsesolver8xf         8x8x1         1496 (1496.0 cycles/matrix)           matcholpreprocess4x4f         4x4         41 (41.0 cycles/matrix)           matcholpreprocess6x6f         6x6         140 (140.0 cycles/matrix)			
matcholdecomp8x8f	matcholdecomp6x6f		
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)           matcholbkwsubst20x10f         10x1         83 (83.0 cycles/matrix)           matcholmmsesolver6x6f         6x6x1         980 (980.0 cycles/matrix)           matcholmsesolver8x8f         8x8x1         1496 (1496.0 cycles/matrix)           matcholpreprocess4x4f         4x4         1992 (1992.0 cycles/matrix)           matcholpreprocess6x6f         6x6         140 (140.0 cycles/matrix)           matcholpreprocess8x8f         8x8         301 (301.0 cycles/matrix)           matcholpreprocess8x8f         8x8         301 (301.0 cycles/matrix)           matcholpseudoinv4x4f         4x4         424 (428.0 cycles/matrix)           matcholpseudoinv4x4f         4x4         668 (668.0 cycles/ma	matcholdecomp8x8f	8x8	
matcholfwdsubst6x6f         6x6x1         98 (98.0 cycles/matrix)           matcholfwdsubst0x8f         8x8x1         129 (129.0 cycles/matrix)           matcholfwdsubst10x10f         10x10x1         160 (160.0 cycles/matrix)           matcholbkwsubst4x4f         4x1         34 (34.0 cycles/matrix)           matcholbkwsubst5x6f         6x1         52 (52.0 cycles/matrix)           matcholbkwsubst8x8f         8x1         67 (67.0 cycles/matrix)           matcholbkwsubst10x10f         10x1         83 (83.0 cycles/matrix)           matcholbmsesolver4x4f         4x4x1         582 (582.0 cycles/matrix)           matcholmmsesolver8x6f         6x6x1         980 (980.0 cycles/matrix)           matcholmmsesolver8x8f         8x8x1         1496 (1496.0 cycles/matrix)           matcholmmsesolver10x10f         10x10x1         1992 (1992.0 cycles/matrix)           matcholpreprocess6x8f         6x6         140 (140.0 cycles/matrix)           matcholpreprocess6x8f         6x6         140 (140.0 cycles/matrix)           matcholpreprocess8x8f         8x8         301 (301.0 cycles/matrix)           matcholpseudoinv4x4f         4x4         668 (668.0 cycles/matrix)           matcholpseudoinv6x6f         6x6         1185 (1185.0 cycles/matrix)           matcholpseudoinv6x6f         6x6         1185 (1	*		
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)         matcholbkwsubst10x10f       10x1       83 (83.0 cycles/matrix)         matcholbkwsubst10x10f       10x1       83 (83.0 cycles/matrix)         matcholmmsesolver4x4f       4x4x1       582 (582.0 cycles/matrix)         matcholmmsesolver8x6f       6x6x1       980 (980.0 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)         matcholpseudoinv6xf       6x6       1185 (185.0 cycles/matrix)         matcholpseudoinv8xf       8x8       1871 (1871.0 cycles/matrix)         matcholpseudoinv8xf       8x8       1871 (1871.0 cycles/matrix)         matcholpseudoinv8xf       8x			
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)           matcholmsesolver4xf         4x4x1         582 (582.0 cycles/matrix)           matcholmsesolver6x6f         6x6x1         980 (980.0 cycles/matrix)           matcholmsesolver6x8f         8x8x1         1496 (1496.0 cycles/matrix)           matcholpreprocess4x4f         4x4         1992 (1992.0 cycles/matrix)           matcholpreprocess6x6f         6x6         140 (140.0 cycles/matrix)           matcholpreprocess8xf         8x8         301 (301.0 cycles/matrix)           matcholpreprocess8xf         8x8         301 (301.0 cycles/matrix)           matcholpseudoinv4x4f         4x4         668 (668.0 cycles/matrix)           matcholpseudoinv4x4f         4x4         668 (668.0 cycles/matrix)           matcholpseudoinv8x6f         6x6         11185 (1185, 0 cycles/matrix)           matcholpseudoinv8x8f         8x8         1871 (1871.0 cycles/matrix)           matcholpseudoinv8x8f         8x8         1871 (1971.0 cy			2
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)           matcholpreprocess8x8f         8x8         301 (301.0 cycles/matrix)           matcholpreprocess8x8f         8x8         301 (301.0 cycles/matrix)           matcholpreprocess10x10f         10x10         428 (428.0 cycles/matrix)           matcholpseudoinv4x4f         4x4         668 (668.0 cycles/matrix)           matcholpseudoinv8x8f         8x8         1871 (1871.0 cycles/matrix)           matcholpseudoinv10x10f         10x10         2671 (2671.0 cycles/matrix)           Fitting and Interpolation         2671 (2671.0 cycles/pts)           vec poly4 32x32         N=200         376 (1.9 cycles/pts) <td></td> <td></td> <td></td>			
matcholbkwsubst6x6f         6x1         52 (52.0 cycles/matrix)           matcholbkwsubst0x8f         8x1         67 (67.0 cycles/matrix)           matcholbkwsubst10x10f         10x1         83 (83.0 cycles/matrix)           matcholbkmsesolver4x4f         4x4x1         582 (582.0 cycles/matrix)           matcholmmsesolver6x6f         6x6x1         980 (980.0 cycles/matrix)           matcholmmsesolver10x10f         10x10x1         1496 (1496.0 cycles/matrix)           matcholpreprocess4x4f         4x4         41 (41.0 cycles/matrix)           matcholpreprocess6x6f         6x6         140 (140.0 cycles/matrix)           matcholpreprocess8x8f         8x8         301 (301.0 cycles/matrix)           matcholpreprocess80x1010         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)           vec poly4 32x32         N=200         376	matcholbkwsubst4x4f		
matcholbkwsubstl0x10f       10x1       83 (83.0 cycles/matrix)         matcholmmsesolver4x4f       4x4x1       582 (582.0 cycles/matrix)         matcholmmsesolver8x8f       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)         matcholpreprocess8x8f       8x8       301 (301.0 cycles/matrix)         matcholpreprocess8x8f       8x8       301 (301.0 cycles/matrix)         matcholpreprocess10x10f       10x10       428 (428.0 cycles/matrix)         matcholpseudoinv4x4f       4x4       668 (668.0 cycles/matrix)         matcholpseudoinv8x8f       8x8       1871 (1871.0 cycles/matrix)         matcholpseudoinv8x8f       8x8       1871 (1871.0 cycles/matrix)         matcholpseudoinv10x10f       10x10       2671 (2671.0 cycles/matrix)         Fitting and Interpolation       2671 (2671.0 cycles/matrix)         vec poly4 32x32       N=200       376 (1.9 cycles/pts)         vec poly4 32x32       N=200       407 (2.0 cycles/pts)         vec poly8f       N=200       787 (3.9 cycles/pts)         FFT Routines       787 (3.9 cycles/pts)	matcholbkwsubst6x6f	6x1	
matcholmmsesolver4x4f       4x4x1       582 (582.0 cycles/matrix)         matcholmmsesolver6x6f       6x6x1       980 (980.0 cycles/matrix)         matcholmmsesolver8x8f       8x8x1       1496 (1496.0 cycles/matrix)         matcholmsesolver10x10f       10x10x1       1992 (1992.0 cycles/matrix)         matcholpreprocess4x4f       4x4       41 (41.0 cycles/matrix)         matcholpreprocess6x6f       6x6       140 (140.0 cycles/matrix)         matcholpreprocess1xx1f       8x8       301 (301.0 cycles/matrix)         matcholpseudoinv4x4f       4x4       428 (428.0 cycles/matrix)         matcholpseudoinv6x6f       6x6       1185 (1185.0 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       2671 (2671.0 cycles/pts)         Polynomial Fitting       2672 (2671.0 cycles/pts)         vec poly4 32x32       N=200       376 (1.9 cycles/pts)         vec poly8 32x32       N=200       407 (2.0 cycles/pts)         vec poly8f       N=200       787 (3.9 cycles/pts)         FFT Routines       787 (3.9 cycles/pts)	matcholbkwsubst8x8f	8x1	
matcholmmsesolver8x6f       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)         matcholpseudoinv6x4f       6x6       6x6 (668.0 cycles/matrix)         matcholpseudoinv6x6f       6x6       1185 (185.0 cycles/matrix)         matcholpseudoinv8x8f       8x8       1871 (1871.0 cycles/matrix)         matcholpseudoinv10x10f       10x10       2671 (2671.0 cycles/matrix)         Fitting and Interpolation       2671 (2671.0 cycles/matrix)         vec poly4 32x32       N=200       376 (1.9 cycles/pts)         vec poly8 32x32       N=200       376 (1.9 cycles/pts)         vec poly8f       N=200       787 (3.9 cycles/pts)         FFT Routines       787 (3.9 cycles/pts)         Complex FFT       787 (3.9 cycles/pts)	matcholbkwsubst10x10f		
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       760 (1.9 cycles/pts)         Polynomial Fitting       770 (2671.0 cycles/pts)         vec poly8 32x32       N=200       376 (1.9 cycles/pts)         vec poly8 5 (2.2 cycles/pts)       N=200       407 (2.0 cycles/pts)         vec poly8 6 (2.2 cycles/pts)       N=200       787 (3.9 cycles/pts)         FFT Routines       787 (3.9 cycles/pts)         Complex FFT       787 (3.9 cycles/pts)			
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     2671 (2671.0 cycles/matrix)       Polynomial Fitting     2671 (2671.0 cycles/pts)       vec poly4 32x32     N=200     376 (1.9 cycles/pts)       vec poly8f     N=200     407 (2.0 cycles/pts)       vec poly8f     N=200     787 (3.9 cycles/pts)       FFT Routines     Complex FFT			
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       2671 (2671.0 cycles/matrix)         Polynomial Fitting       vec poly4 32x32       N=200       376 (1.9 cycles/pts)         vec poly8 32x32       N=200       624 (3.1 cycles/pts)         vec poly8f       N=200       407 (2.0 cycles/pts)         vec poly8f       N=200       787 (3.9 cycles/pts)         FFT Routines       Complex FFT			
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)         matcholpseudoinv8x8f       8x8       1185 (1185.0 cycles/matrix)         matcholpseudoinv8x8f       8x8       1871 (1871.0 cycles/matrix)         matcholpseudoinv10x10f       10x10       2671 (2671.0 cycles/matrix)         Fitting and Interpolation       2671 (2671.0 cycles/matrix)         Polynomial Fitting       xec 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	matcholpreprocess4x4f		
matcholpreprocess10x10f       10x10       428 (428.0 cycles/matrix)         matcholpseudoinv4x4f       4x4       668 (668.0 cycles/matrix)         matcholpseudoinv6x6f       6x6       1185 (1185.0 cycles/matrix)         matcholpseudoinv10x10f       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 poly8f       N=200       407 (2.0 cycles/pts)         vec poly8f       N=200       787 (3.9 cycles/pts)         FFT Routines       Complex FFT	matcholpreprocess6x6f		140 (140.0 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	matcholpreprocess8x8f		4 1
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	matcholpreprocess10x10f		
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			-
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			
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	matcholpseudoinv10x10f		
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	Fitting and Interpolation		
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	Polynomial Fitting		
vec poly4f         N=200         407 (2.0 cycles/pts)           vec poly8f         N=200         787 (3.9 cycles/pts)           FFT Routines         Complex FFT	vec_poly4_32x32		
vec_poly8f         N=200         787 (3.9 cycles/pts)           FFT Routines         Complex FFT			
FFT Routines Complex FFT			
Complex FFT			(0.5 Cycles/pcs)
*	Complex FFT		
	fft_cplx16x16	N=16, scaling=3	135 (0.119 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	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 fft_cplx16x16	N=64, scaling=2 N=128, scaling=3	537 (0.119 pts/cycle) 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 fft_cplx16x16	N=1024, scaling=3 N=1024, scaling=2	8085 (0.127 pts/cycle) 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 fft_cplx32x16	N=32, scaling=2 N=64, scaling=3	262 (0.122 pts/cycle) 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 N=1024, scaling=3	3954 (0.129 pts/cycle)
fft_cplx32x16 fft cplx32x16	N=1024, Scaling=3 N=1024, scaling=2	7631 (0.134 pts/cycle) 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 fft cplx32x32	N=32, scaling=3 N=32, scaling=2	209 (0.153 pts/cycle) 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 fft cplx32x32	N=512, scaling=3 N=512, scaling=2	3182 (0.161 pts/cycle) 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 ifft_cplx16x16	N=16, scaling=3 N=16, scaling=2	140 (0.114 pts/cycle) 191 (0.084 pts/cycle)
ifft cplx16x16	N=32, scaling=3	191 (0.004 pts/cycle) 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 ifft cplx16x16	N=256, scaling=3 N=256, scaling=2	1814 (0.141 pts/cycle) 2222 (0.115 pts/cycle)
ifft cplx16x16	N=256, scaling=2 N=512, scaling=3	3896 (0.131 pts/cycle)
ifft cplx16x16	N=512, scaling=3	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 ifft_cplx32x16	N=16, scaling=3 N=16, scaling=2	138 (0.116 pts/cycle) 202 (0.079 pts/cycle)
ifft cplx32x16	N=16, scaling=2 N=32, scaling=3	202 (0.079 pts/cycle) 200 (0.160 pts/cycle)
TITC_CPINGENIU	11 021 00011119 0	200 (0.100 pc3/cyc1e)

		Cycles Measurements
Function name	Invocation parameters	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) 784 (0.163 pts/cycle)
ifft_cplx32x16 ifft_cplx32x16	N=128, scaling=3 N=128, scaling=2	954 (0.163 pts/cycle) 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 N=64, scaling=3	318 (0.101 pts/cycle)
ifft_cplx32x32 ifft cplx32x32	N=64, scaling=3 N=64, scaling=2	426 (0.150 pts/cycle) 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	77.00	055 (0.105 ) (
fft_real16x16 fft_real16x16	N=32, scaling=3	257 (0.125 pts/cycle)
fft real16x16	N=32, scaling=2 N=64, scaling=3	300 (0.107 pts/cycle) 338 (0.189 pts/cycle)
fft real16x16	N=64, scaling=3 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 fft_real16x16	N=8192, scaling=3 N=8192, scaling=2	46127 (0.178 pts/cycle) 53489 (0.153 pts/cycle)
fft real32x16	N=8192, Scaling=2 N=32, scaling=3	244 (0.131 pts/cycle)
fft real32x16	N=32, scaling=3 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)

		Cycles Measurements
Function name	Invocation parameters	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 fft_real32x32	N=256, scaling=2 N=512, scaling=3	1247 (0.205 pts/cycle) 2050 (0.250 pts/cycle)
fft real32x32	N=512, scaling=5	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 fft real32x32	N=4096, scaling=3 N=4096, scaling=2	18011 (0.227 pts/cycle) 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 ifft_real16x16	N=64, scaling=2 N=128, scaling=3	461 (0.139 pts/cycle) 665 (0.192 pts/cycle)
ifft real16x16	N=120, Scaling=3 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 ifft_real16x16	N=1024, scaling=3 N=1024, scaling=2	5021 (0.204 pts/cycle) 6171 (0.166 pts/cycle)
ifft real16x16	N=1024, Scaling=2 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 ifft real32x16	N=8192, scaling=2 N=32, scaling=3	56596 (0.145 pts/cycle) 205 (0.156 pts/cycle)
ifft real32x16	N=32, scaling=3	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 ifft_real32x16	N=256, scaling=3 N=256, scaling=2	1078 (0.237 pts/cycle) 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 ifft_real32x16	N=2048, scaling=2 N=4096, scaling=3	10914 (0.188 pts/cycle) 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 ifft_real32x32	N=64, scaling=3 N=64, scaling=2	321 (0.199 pts/cycle) 453 (0.141 pts/cycle)
ifft real32x32	N=64, Scaling=2 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 ifft_real32x32	N=512, scaling=2 N=1024, scaling=3	2513 (0.204 pts/cycle) 4345 (0.236 pts/cycle)
ifft real32x32	N=1024, Scaling=3 N=1024, scaling=2	4345 (0.236 pts/cycle) 5005 (0.205 pts/cycle)
ifft real32x32	N=1024, Scaling=2 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 FFT Routines	N=8192, scaling=2	44903 (0.182 pts/cycle)
Mixed Radix Complex FFT	1	
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)

		Cycles Measurements
Function name	Invocation parameters	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 fft_cplx32x32	N=48, scaling=3 N=48, scaling=2	451 (0.106 pts/cycle) 525 (0.091 pts/cycle)
fft cplx32x32	N=40, Scaling=2 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 N=120, scaling=3	1550 (0.070 pts/cycle)
fft_cplx32x32	N=120, scaling=3 N=120, scaling=2	1514 (0.079 pts/cycle)
fft_cplx32x32 fft cplx32x32	N=120, scaling=2 N=144, scaling=3	1776 (0.068 pts/cycle) 1279 (0.113 pts/cycle)
fft cplx32x32	N=144, Scaling=3 N=144, scaling=2	1631 (0.088 pts/cycle)
fft cplx32x32	N=144, Scaling=2 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 fft cplx32x32	N=300, scaling=2 N=320, scaling=3	3848 (0.078 pts/cycle)
fft cplx32x32	N=320, scaling=3	2935 (0.109 pts/cycle) 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 fft cplx32x32	N=540, scaling=2 N=576, scaling=3	7298 (0.074 pts/cycle) 4814 (0.120 pts/cycle)
fft cplx32x32	N=576, scaling=3 N=576, scaling=2	4814 (0.120 pts/cycle) 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)

		Cycles Measurements
Function name	Invocation parameters	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 ifft_cplx32x32	N=108, scaling=3 N=108, scaling=2	1202 (0.090 pts/cycle) 1556 (0.069 pts/cycle)
ifft cplx32x32	N=120, scaling=3	1507 (0.009 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 ifft_cplx32x32	N=160, scaling=2 N=180, scaling=3	1577 (0.101 pts/cycle) 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 ifft_cplx32x32	N=240, scaling=2 N=288, scaling=3	2703 (0.089 pts/cycle) 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 ifft_cplx32x32	N=360, scaling=3 N=360, scaling=2	4072 (0.088 pts/cycle) 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 ifft_cplx32x32	N=480, scaling=2 N=540, scaling=3	5933 (0.081 pts/cycle) 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 ifft_cplx32x32	N=960, scaling=3 N=960, scaling=2	8672 (0.111 pts/cycle) 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 fft cplx32x16	N=320, scaling=3 N=320, scaling=2	2495 (0.128 pts/cycle) 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 ifft_cplx32x16	N=192, scaling=2 N=240, scaling=3	1743 (0.110 pts/cycle)
ifft_cplx32x16	N=240, scaling=3 N=240, scaling=2	2026 (0.118 pts/cycle) 2398 (0.100 pts/cycle)
ifft cplx32x16	N=240, scaling=2 N=320, scaling=3	2538 (0.100 pts/cycle) 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)

		Cycles Measurements
Function name	Invocation parameters	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 fft_cplx16x16	N=192, scaling=3 N=192, scaling=2	1701 (0.113 pts/cycle) 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 ifft_cplx16x16	N=192, scaling=2 N=240, scaling=3	2124 (0.090 pts/cycle) 2190 (0.110 pts/cycle)
ifft cplx16x16	N=240, scaling=3 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=3 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	, , , , , , , , , , , , , , , , , , ,	(1111)
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 fft_real32x32	N=36, scaling=2	587 (0.061 pts/cycle)
fft real32x32	N=48, scaling=3 N=48, scaling=2	360 (0.133 pts/cycle) 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 fft_real32x32	N=144, scaling=2 N=160, scaling=3	1416 (0.102 pts/cycle) 830 (0.193 pts/cycle)
fft real32x32	N=160, scaling=3 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 fft real32x32	N=324, scaling=3 N=324, scaling=2	2374 (0.136 pts/cycle)
fft real32x32	N=324, scaling=2 N=360, scaling=3	2848 (0.114 pts/cycle) 2244 (0.160 pts/cycle)
<del>_</del>	-	2244 (0.160 pts/cycle) 2714 (0.133 pts/cycle)
fft real32v32		
fft_real32x32 fft_real32x32	N=360, scaling=2 N=384. scaling=3	
fft_real32x32 fft_real32x32 fft_real32x32	N=360, scaling=2 N=384, scaling=3 N=384, scaling=2	2/14 (0.133 pts/cycle) 2035 (0.189 pts/cycle) 2423 (0.158 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	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 fft_real32x32	N=576, scaling=3 N=576, scaling=2	3526 (0.163 pts/cycle) 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 fft_real32x32	N=960, scaling=2 N=1152, scaling=3	6900 (0.139 pts/cycle) 5731 (0.201 pts/cycle)
fft real32x32	N=1152, scaling=3 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 ifft_real32x32	N=12, scaling=2 N=24, scaling=3	286 (0.042 pts/cycle) 302 (0.079 pts/cycle)
ifft real32x32	N=24, scaling=3 N=24, scaling=2	302 (0.079 pts/cycle) 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 ifft real32x32	N=60, scaling=3 N=60, scaling=2	568 (0.106 pts/cycle) 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) 1197 (0.090 pts/cycle)
ifft_real32x32 ifft_real32x32	N=108, scaling=2 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 ifft_real32x32	N=192, scaling=3 N=192, scaling=2	1368 (0.140 pts/cycle) 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 ifft_real32x32	N=300, scaling=3 N=300, scaling=2	2225 (0.135 pts/cycle) 2559 (0.117 pts/cycle)
ifft real32x32	N=300, scaling=2 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 ifft_real32x32	N=384, scaling=2 N=432, scaling=3	2513 (0.153 pts/cycle) 2985 (0.145 pts/cycle)
ifft real32x32	N=432, scaling=3 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)

		Cycles Measurements
Function name	Invocation parameters	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 ifft_real32x32	N=720, scaling=2 N=768, scaling=3	5635 (0.128 pts/cycle) 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 fft_real32x16	N=160, scaling=3 N=160, scaling=2	825 (0.194 pts/cycle) 940 (0.170 pts/cycle)
fft real32x16	N=160, Scaling=2 N=192, scaling=3	1042 (0.184 pts/cycle)
fft real32x16	N=192, scaling=3 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=3 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 ifft_real32x16	N=384, scaling=3 N=384, scaling=2	1861 (0.206 pts/cycle) 2209 (0.174 pts/cycle)
ifft real32x16	N=304, Scaling=2 N=480, scaling=3	2542 (0.189 pts/cycle)
ifft real32x16	N=480, scaling=2	2972 (0.163 pts/cycle) 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 N=160, scaling=3	3181 (0.151 pts/cycle)
ifft_real16x16 ifft_real16x16	N=160, scaling=3 N=160, scaling=2	1033 (0.155 pts/cycle) 1284 (0.125 pts/cycle)
ifft real16x16	N=160, Scaling=2 N=192, scaling=3	1284 (0.125 pts/cycle) 1226 (0.157 pts/cycle)
ifft real16x16	N=192, scaling=3 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=3 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 N=256, scaling=3	10209 (0.100 pts/cycle) 1944 (0.132 pts/cycle)
EEL12010 '		1 1944 (II 132 hts/cvcle)
fft_cplx32x16_ie		
fft_cplx32x16_ie fft_cplx32x16_ie fft_cplx32x16_ie	N=256, scaling=2 N=512, scaling=3	2198 (0.116 pts/cycle) 4725 (0.108 pts/cycle)

			Cycles Measurements
1922   19.10   pterfeyeds   1921   19.10   pterfeyeds   1922   19.10   pterfeyeds   1922   19.10   pterfeyeds   1924   19.10   pterfeyeds   1924   19.10   pterfeyeds   1925	Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
Set opixion	fft cplx32x16 ie	N=1024, scaling=3	9305 (0.110 pts/cycle)
100   10.11   par/sycien   100   10.11   par/sycien   100   10.11   par/sycien   100   10.11   par/sycien   100   10.12   10.12   par/sycien   10.10   10.13   par/sycien   10.10   pa			
Set opal/2021 is N=256, scalings2			1 1
### First Computations			
TCC Q1232322   Le			
### 10.319 pts/cycle   ### 10.339 pts/cycle			
Fr. ppix2322   8 + 1024, sealing=2   8119 (0.120 pre/cycle)   11ff. cpix2322   8 + 1024, sealing=2   8119 (0.120 pre/cycle)   11ff. cpix2616   8 + 1024   8119 (0.120 pre/cycle)   11ff. cpix2616   8 + 1024   8126   825 (0.100 pre/cycle)   11ff. cpix2616   8 + 1024   825 (0.100 pre/cycle)   12ff. cpix2616   8 + 1024 (0.100 pre/cycle)   12ff. cpix2626   12ff. cpix			
Iffic uplicated a		N=1024, scaling=3	
Iffic pplx16x16 is			
Iffic pulse   No.   1000   0.100   pat/cycle			
Introduction   New York   New Y			
STEFT_CRIPANNINE			
1211   1212   1213			
Iffic pplx33216   ie			
### 1871 (0.144 prz/cycle) ### 1872 (0.88 ptz/cycle) ### 1872 (0.88 pt	ifft_cplx32x16_ie	N=512, scaling=3	4847 (0.106 pts/cycle)
Iffic publish232 is			
ifff cplx32x32 ie         N=128, scaling=3         904 (0.142 pts/cycle)           ifft cplx32x32 ie         N=28, scaling=3         1016 (0.158 pts/cycle)           ifft cplx32x32 ie         N=256, scaling=3         1016 (0.158 pts/cycle)           ifft cplx32x32 ie         N=252, scaling=3         3759 (0.136 pts/cycle)           ifft cplx32x32 ie         N=512, scaling=3         3759 (0.136 pts/cycle)           ifft cplx32x32 ie         N=512, scaling=3         7147 (0.143 pts/cycle)           ifft cplx32x32 ie         N=1024, scaling=3         7147 (0.143 pts/cycle)           ifft cplx32x32 ie         N=1024, scaling=3         7147 (0.143 pts/cycle)           ifft cplx32x32 ie         N=1024, scaling=3         7147 (0.143 pts/cycle)           ifft cplx32x32 ie         N=1024         8180 (0.152 pts/cycle)           ifft cplx32x32 ie         N=1024         8100 (0.072 pts/cycle)           ifft cplx32x32 ie         N=1024         8202 (0.002 pts/cycle)           ifft cplx32x32 ie         N=216         333 (0.000 pts/cycle)           ifft cplx32x32 ii         N=226         333 (0.000 pts/cycle)           ifft cplx32x32 ii         N=226         333 (0.000 pts/cycle)           ifft cplx32x32 ii         N=226         323 (0.000 pts/cycle)           ifft cplx32x32 ii         N=1024			
ifft opix2x32 ie			
ifft cph32321 ie			
ifft ophx32x32 ie			
Ifft cplx3232 ie			
Iffic plx3232 ie	ifft_cplx32x32_ie	N=512, scaling=3	
Since   Stephila   Since   S		, ,	
Stereo fft cplx16x16 is			
Stereo fft cplx16x16 is   N=1024   17238 (0.059 pts/cycle)   Stereo fft cplx16x16 is   N=256, scaling=3   313 (0.085 pts/cycle)   Stereo fft cplx32x16 is   N=256, scaling=2   3103 (0.085 pts/cycle)   Stereo fft cplx32x16 is   N=256, scaling=2   3103 (0.089 pts/cycle)   Stereo fft cplx32x16 is   N=512, scaling=2   3705 (0.089 pts/cycle)   Stereo fft cplx32x16 is   N=512, scaling=2   8973 (0.073 pts/cycle)   Stereo fft cplx32x16 is   N=512, scaling=2   8973 (0.073 pts/cycle)   Stereo fft cplx32x16 is   N=024, scaling=3   14059 (0.073 pts/cycle)   Stereo fft cplx32x16 is   N=024, scaling=2   16875 (0.061 pts/cycle)   Stereo fft cplx32x12 is   N=128, scaling=3   14059 (0.075 pts/cycle)   Stereo fft cplx32x12 is   N=128, scaling=3   1692 (0.076 pts/cycle)   Stereo fft cplx32x12 is   N=128, scaling=3   1592 (0.076 pts/cycle)   Stereo fft cplx32x12 is   N=128, scaling=3   3125 (0.082 pts/cycle)   Stereo fft cplx32x12 is   N=256, scaling=3   3125 (0.082 pts/cycle)   Stereo fft cplx32x12 is   N=526, scaling=3   3125 (0.082 pts/cycle)   Stereo fft cplx32x12 is   N=512, scaling=3   3125 (0.082 pts/cycle)   Stereo fft cplx32x12 is   N=512, scaling=3   3993 (0.085 pts/cycle)   Stereo fft cplx32x12 is   N=512, scaling=3   3993 (0.085 pts/cycle)   Stereo fft cplx32x12 is   N=512, scaling=3   3993 (0.085 pts/cycle)   Stereo fft cplx32x12 is   N=1024, scaling=3   3993 (0.085 pts/cycle)   Stereo fft cplx32x16 is   N=1024, scaling=3   3993 (0.085 pts/cycle)   Stereo fft cplx32x16 is   N=1024   3993 (0.085 pts/cycle)   Stereo fft cplx32x16 is   N=1024   3993 (0.085 pts/cycle)   Stereo fft cplx32x16 is   N=1024   3993 (0.083 pts/cycle)   Stereo ifft cplx32x16 is   N=1024   3993 (0.080 pts/cycle)   Stereo ifft cplx32x16 is   N=1024			
Stereo fft cplx182x16 is			
Stereo fft cplx32x16 ie			
Stereo fft cplx32x16 ie		·	
stereo fft cplx32x16 ie         N=512, scaling=3         14059 (0.073 pts/cycle)           stereo fft cplx32x16 ie         N=1024, scaling=3         14059 (0.073 pts/cycle)           stereo fft cplx32x32 ie         N=1024, scaling=3         16875 (0.061 pts/cycle)           stereo fft cplx32x32 ie         N=128, scaling=3         1692 (0.076 pts/cycle)           stereo fft cplx32x32 ie         N=286, scaling=3         3125 (0.062 pts/cycle)           stereo fft cplx32x32 ie         N=256, scaling=3         3175 (0.068 pts/cycle)           stereo fft cplx32x32 ie         N=512, scaling=3         3088 (0.062 pts/cycle)           stereo fft cplx32x32 ie         N=512, scaling=3         3088 (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 ifft cplx16x16 ie         N=128         1766 (0.072 pts/cycle)           stereo ifft cplx16x16 ie         N=128         1766 (0.072 pts/cycle)           stereo ifft cplx16x16 ie         N=128         1766 (0.072 pts/cycle)           stereo ifft cplx32x16 ie         N=512         8189 (0.063 pts/cycle)           stereo ifft cplx32x16 ie         N=256, scaling=3         2943 (0.057 pts/cycle)           stereo ifft cplx32x16 ie         N=2	stereo_fft_cplx32x16_ie	N=256, scaling=2	3705 (0.069 pts/cycle)
Stereo fft cplx32x16 ie		, ,	
Stereo fft cplx32x16 ie			
Stereo fft cplx32x32 ie			
stereo fft cplx32x32 ie         N=128, scaling=2         2015 (0.064 pts/cycle)           stereo fft cplx32x32 ie         N=256, scaling=3         3125 (0.062 pts/cycle)           stereo fft cplx32x32 ie         N=256, scaling=3         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=3         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=3         15403 (0.070 pts/cycle)           stereo ifft cplx32x32 ie         N=1024, scaling=3         1766 (0.072 pts/cycle)           stereo ifft cplx16x16 ie         N=256         3632 (0.070 pts/cycle)           stereo ifft cplx16x16 ie         N=526         3632 (0.070 pts/cycle)           stereo ifft cplx32x16 ie         N=526, scaling=3         2943 (0.087 pts/cycle)           stereo ifft cplx32x16 ie         N=256, scaling=3         2943 (0.087 pts/cycle)           stereo ifft cplx32x16 ie         N=256, scaling=3         3661 (0.070 pts/cycle)           stereo ifft cplx32x16 ie         N=512, scaling=3         3661 (0.075 pts/cycle)           stereo ifft cplx32x16 ie         N=1024, scaling=3         13717 (0.075 pts/cycle)           stereo ifft cplx32x2			
Stereo fft cplx32x32 ie   N=256, scaling=3   S125 (0.082 pts/cycle)	,		
Stereo fft cplx32x32 ie			
Stereo fft cplx32x32 ie   N=512, scaling=2   9303 (0.055 pts/cycle)	stereo_fft_cplx32x32_ie		3751 (0.068 pts/cycle)
Stereo fft cplx32x32 ie	,		
Stereo ffft cplx32x32 ie			
Stereo ifft cplx16x16 ie			
stereo ifft cplx16x16 ie         N=512         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=3         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=3         13717 (0.075 pts/cycle)           stereo ifft cplx32x31 ie         N=1024, scaling=3         1725 (0.074 pts/cycle)           stereo ifft cplx32x32 ie         N=128, scaling=3         1725 (0.074 pts/cycle)           stereo ifft cplx32x32 ie         N=256, scaling=3         3190 (0.080 pts/cycle)           stereo ifft cplx32x32 ie         N=256, scaling=2         3888 (0.066 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=2         3888 (0.066 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         8227 (0.062 pts/cycle)           stereo ifft cplx32x32 ie			
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=2         8339 (0.061 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=3         16639 (0.062 pts/cycle)           stereo ifft cplx32x16 ie         N=1024, scaling=3         1725 (0.074 pts/cycle)           stereo ifft cplx32x2 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=556, scaling=3         3190 (0.080 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         8227 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         8227 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         9506 (0.054 pts/cycle)           stereo ifft cp			3632 (0.070 pts/cycle)
stereo ifft cplx32x16 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=3         339 (0.061 pts/cycle)           stereo ifft cplx32x16 ie         N=1024, scaling=3         13717 (0.075 pts/cycle)           stereo ifft cplx32x16 ie         N=1024, scaling=3         13717 (0.075 pts/cycle)           stereo ifft cplx32x16 ie         N=1024, scaling=3         1725 (0.074 pts/cycle)           stereo ifft cplx32x32 ie         N=128, scaling=3         1725 (0.074 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         3190 (0.080 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         327 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         327 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=1024, scaling=3         15661 (0.065 pts/cycle)           ste		N=512	
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=28, scaling=3         2074 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=256, scaling=3         3190 (0.080 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         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=3         8227 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         8227 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=3         8227 (0.062 pts/cycle)           stereo ifft cplx32x32 ie         N=1024, scaling=3         15661 (0.065 pts/cycle)           stereo ifft cplx32x32 ie         N=1024, scaling=3         15661 (0.065 pts/cycle)	stereo_ifft_cplx16x16_ie	N=1024	17215 (0.059 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 cplx32x31 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=512, scaling=3         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=3         15661 (0.065 pts/cycle)           stereo ifft cplx32x32 ie         N=1024, scaling=3         15661 (0.065 pts/cycle)           ftc cplxf ie         N=8         65 (0.123 pts/cycle)           fft cplxf ie         N=2         224 (0.112 pts/cycle)           fft cplxf ie         N=128			
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=3         3858 (0.066 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=2         3858 (0.066 pts/cycle)           stereo ifft cplx32x32 ie         N=512, scaling=2         9506 (0.054 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=3         15661 (0.055 pts/cycle)           fft cplxf ie         N=8         65 (0.123 pts/cycle)           fft cplxf ie         N=8         65 (0.123 pts/cycle)           fft cplxf ie         N=128         1078 (0.112 pts/cycle)           fft cplxf ie         N=256         2727 (0.094 pt			
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=3       15661 (0.065 pts/cycle)         stereo ifft cplx32x32 ie       N=1024, scaling=3       15661 (0.065 pts/cycle)         stereo ifft cplx32x32 ie       N=1024, scaling=3       15661 (0.065 pts/cycle)         stereo ifft cplx32x32 ie       N=1024, scaling=3       15661 (0.065 pts/cycle)         stereo ifft cplx32x32 ie       N=1024, scaling=3       15661 (0.065 pts/cycle)         stereo ifft cplx32x32 ie       N=1024, scaling=3       15661 (0.065 pts/cycle)         stereo ifft cplx32x32 ie       N=1024, scaling=3			
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)         stereo ifft cplx3 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=512       5361 (0.094 pts/cycle)         fft cplxf ie       N=512       5361 (0.096 pts/cycle)         fft cplxf ie       N=1024       13102 (0.078 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=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)         stereo_ifft_cplx32x32_ie       N=1024, scaling=3       15661 (0.065 pts/cycle)         stereo_ifft_cplx32x32_ie       N=1024, scaling=3			
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=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)			
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=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)			
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)         ftc_cplxf_ie       N=8       65 (0.123 pts/cycle)         ftf_cplxf_ie       N=16       127 (0.126 pts/cycle)         ftf_cplxf_ie       N=32       224 (0.143 pts/cycle)         ftf_cplxf_ie       N=64       572 (0.112 pts/cycle)         ftf_cplxf_ie       N=128       1078 (0.119 pts/cycle)         ftf_cplxf_ie       N=256       2727 (0.094 pts/cycle)         ftf_cplxf_ie       N=512       5361 (0.096 pts/cycle)         ftf_cplxf_ie       N=1024       13102 (0.078 pts/cycle)         ftf_cplxf_ie       N=2048       26024 (0.079 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=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)			
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)			
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=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=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=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=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=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)			2 2
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=1024         13102 (0.078 pts/cycle)           fft cplxf ie         N=2048         26024 (0.079 pts/cycle)			
fft_cplxf_ie			

		Cycles Measurements
Function name	Invocation parameters	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 ifft cplxf ie	N=32 N=64	223 (0.143 pts/cycle) 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 stereo_fft_cplxf_ie	N=64 N=128	955 (0.067 pts/cycle) 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 N=512	4994 (0.051 pts/cycle) 13104 (0.039 pts/cycle)
stereo_ifft_cplxf_ie stereo ifft cplxf ie	N=512 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 fft_real32x16_ie	N=256, scaling=3 N=256, scaling=2	1327 (0.193 pts/cycle) 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 N=256	5979 (0.171 pts/cycle)
ifft_real16x16_ie ifft_real16x16_ie		1796 (0.143 pts/cycle)
ifft real16x16 ie	N=512 N=1024	3234 (0.158 pts/cycle) 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 ifft_real32x32_ie	N=512, scaling=3 N=512, scaling=2	2190 (0.234 pts/cycle) 2781 (0.184 pts/cycle)
ifft real32x32_ie	N=512, scaling=2 N=1024, scaling=3	4829 (0.212 pts/cycle)
ifft real32x32 ie	N=1024, scaling=3 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)
	NT-1004	
fft_realf_ie	N=1024	6741 (0.152 pts/cycle)
	N=1024 N=2048 N=4096	6741 (0.152 pts/cycle) 15795 (0.130 pts/cycle) 31340 (0.131 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	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 ifft realf ie	N=256 N=512	1476 (0.173 pts/cycle) 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=22 ggalingOnt=2	152 (202122)
dct_32x16	N=32, scalingOpt=3 N=64, scalingOpt=3	152 (cycles) 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 dct4_32x16	N=64, scalingOpt=3 N=128, scalingOpt=3	584 (cycles) 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 dct4_32x32	N=256, scalingOpt=3 N=512, scalingOpt=3	2186 (cycles) 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 mdct 32x32	N=32, scalingOpt=3 N=64, scalingOpt=3	360 (cycles) 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 imdct_32x16	N=128, scalingOpt=3 N=256, scalingOpt=3	1414 (cycles) 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 imdct_32x32	N=256, scalingOpt=3	2568 (cycles)
dct2d 8x16	N=512, scalingOpt=3 N=8, L=1, scalingOpt=0	5622 (cycles) 269 (269.0 cycles/block)
dct2d_0x16	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 dctf	N=8, L=1024, scalingOpt=0 N=32	259087 (253.0 cycles/block) 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 fft_spectrum16x32	N=32[mode=0 bexp=-1] N=64[mode=0 bexp=-1]	405 (0.08 pts/cycle) 693 (0.09 pts/cycle)
fft spectrum16x32	N=64[mode=0 bexp=-1] 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 fft spectrum16x32	N=16384[mode=0 bexp=-1] N=32768[mode=0 bexp=-1]	157353 (0.10 pts/cycle) 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)

		Cycles Measurements
Function name	Invocation parameters	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 fft_spectrum16x32	N=256[mode=1 bexp=-1] N=512[mode=1 bexp=-1]	1344 (0.19 pts/cycle) 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 fft_spectrum16x32	N=65536[mode=1 bexp=-1] N=1024[mode=1 bexp=-1]	314740 (0.21 pts/cycle) 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 fft_spectrum16x32	N=128[mode=0 bexp=-1 inplace] N=256[mode=0 bexp=-1 inplace]	1270 (0.10 pts/cycle)
fft spectrum16x32	N=256[mode=0 bexp=-1 inplace] N=512[mode=0 bexp=-1 inplace]	2498 (0.10 pts/cycle) 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 fft_spectrum16x32	N=1024[mode=0 bexp=-1 inplace] N=2[mode=1 bexp=-1 inplace]	9873 (0.10 pts/cycle) 115 (0.02 pts/cycle)
fft spectrum16x32	N=4[mode=1 bexp=-1 inplace]	113 (0.02 pts/cycle) 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 fft_spectrum16x32	N=256[mode=1 bexp=-1 inplace] N=512[mode=1 bexp=-1 inplace]	1345 (0.19 pts/cycle) 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] N=1024[mode=1 bexp=-1 inplace]	314739 (0.21 pts/cycle)
fft_spectrum16x32 fft_spectrum32x32	N=1024[mode=1 bexp=-1 inplace] N=2[mode=0 bexp=-1]	5031 (0.20 pts/cycle) 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 fft spectrum32x32	N=256[mode=0 bexp=-1] N=512[mode=0 bexp=-1]	3145 (0.08 pts/cycle) 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 fft_spectrum32x32	N=1024[mode=0 bexp=-1] N=2[mode=1 bexp=-1]	12459 (0.08 pts/cycle) 140 (0.01 pts/cycle)
fft spectrum32x32	N=2[mode=1 bexp=-1] 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 fft_spectrum32x32	N=256[mode=1 bexp=-1] N=512[mode=1 bexp=-1]	1693 (0.15 pts/cycle) 3248 (0.16 pts/cycle)
fft spectrum32x32	N=512[mode=1 bexp=-1] N=2048[mode=1 bexp=-1]	12577 (0.16 pts/cycle)
fft spectrum32x32	N=4096[mode=1 bexp=-1]	25009 (0.16 pts/cycle)
	The state of the s	
fft spectrum32x32	N=8192[mode=1 bexp=-1]	49873 (0.16 pts/cycle)

		Cycles Measurements
Function name	Invocation parameters	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] N=8[mode=0 bexp=-1 inplace]	181 (0.02 pts/cycle) 226 (0.04 pts/cycle)
fft_spectrum32x32 fft spectrum32x32	N=8[mode=0 bexp=-1 inplace] 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 fft spectrum32x32	N=4096[mode=0 bexp=-1 inplace] N=8192[mode=0 bexp=-1 inplace]	49706 (0.08 pts/cycle) 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 fft spectrum32x32	N=32[mode=1 bexp=-1 inplace] N=64[mode=1 bexp=-1 inplace]	410 (0.08 pts/cycle) 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 fft spectrum32x32	N=32768[mode=1 bexp=-1 inplace] N=65536[mode=1 bexp=-1 inplace]	199050 (0.16 pts/cycle) 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 fft spectrumf	N=64 [mode=0]	1192 (0.05 pts/cycle)
fft spectrumf	N=128 [mode=0] N=256 [mode=0]	2296 (0.06 pts/cycle) 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 fft spectrumf	N=65536[mode=0] N=1024[mode=0]	1167377 (0.06 pts/cycle) 18256 (0.06 pts/cycle)
fft spectrumf	N=2[mode=0]	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 fft spectrumf	N=256[mode=1] N=512[mode=1]	2391 (0.11 pts/cycle) 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 fft spectrumf	N=2[mode=0 inplace] N=4[mode=0 inplace]	112 (0.02 pts/cycle) 142 (0.03 pts/cycle)
fft spectrumf	N=4[mode=0 inplace] 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)
_ *	N=64[mode=0 inplace]	1192 (0.05 pts/cycle)
fft_spectrumf	N-64[MOde-0 INPIACE]	1132 (0:03 PCB/CYC1C)

fft spectrumf         N=2           fft spectrumf         N=5           fft spectrumf         N=4           fft spectrumf         N=4           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=8           fft spectrumf         N=6           fft spectrumf         N=6<	## Cocation parameters  ## Coc	RI2020.4, HiFi4 with VFPU, bd5  4576 (0.06 pts/cycle) 9136 (0.06 pts/cycle) 36496 (0.06 pts/cycle) 72976 (0.06 pts/cycle) 145936 (0.06 pts/cycle) 291856 (0.06 pts/cycle) 583696 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 11256 (0.06 pts/cycle) 207 (0.02 pts/cycle) 211 (0.02 pts/cycle) 222 (0.03 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle)
fft spectrumf         N=5           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=8           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=8           fft spectrumf         N=8           fft spectrumf         N=6           fft spectrumf         N=7           logmel32x32 process         S-1           logmel32x32 process	S12[mode=0 inplace] 2048[mode=0 inplace] 3096[mode=0 inplace] 3192[mode=0 inplace] 32768[mode=0 inplace] 32768[mode=0 inplace] 32768[mode=0 inplace] 32768[mode=0 inplace] 32768[mode=0 inplace] 3276mode=0 inplace] 3276mode=1 inplace] 328[mode=1 inplace] 3298[mode=1 inplace] 3298[mode=1 inplace] 3212[mode=1 inplace] 3213[mode=1 inplace]	9136 (0.06 pts/cycle) 36496 (0.06 pts/cycle) 72976 (0.06 pts/cycle) 145936 (0.06 pts/cycle) 291856 (0.06 pts/cycle) 583696 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 112 (0.02 pts/cycle) 111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft_spectrumf         N=2           fft_spectrumf         N=4           fft_spectrumf         N=8           fft_spectrumf         N=3           fft_spectrumf         N=6           fft_spectrumf         N=1           fft_spectrumf         N=2           fft_spectrumf         N=8           fft_spectrumf         N=8           fft_spectrumf         N=3           fft_spectrumf         N=6           fft_spectrumf         N=2           fft_spectrumf         N=2           fft_spectrumf         N=2           fft_spectrumf         N=2           fft_spectrumf         N=4           fft_spectrumf         N=4           fft_spectrumf         N=3           fft_spectrumf         N=3           fft_spectrumf         N=3           fft_spectrumf         N=6           fft_spectrumf         N=6           fft_spectrumf         N=7           fft_spectrumf         N=6           fft_spectrumf         N=6           fft_spectrumf         N=7           fft_spectrumf         N=7           logmel32x32 process         20;           logmel32x32 process	2048[mode=0 inplace] 4096[mode=0 inplace] 1192[mode=0 inplace] 12768[mode=0 inplace] 12768[mode=0 inplace] 12768[mode=0 inplace] 12768[mode=0 inplace] 1024[mode=0 inplace] 1024[mode=1 inplace] 18[mode=1 inplace] 18[mode=1 inplace] 18[mode=1 inplace] 18[mode=1 inplace] 182[mode=1 inplace] 182[mode=1 inplace] 184[mode=1 inplace] 128[mode=1 inplace] 128[mode=1 inplace] 128[mode=1 inplace] 129[mode=1 inplace] 120[mode=1 inplace] 1312[mode=1 inplace] 132[mode=1 inplace] 132768[mode=1 inplace] 132768[mode=1 inplace] 13536[mode=1 inplace]	36496 (0.06 pts/cycle) 72976 (0.06 pts/cycle) 145936 (0.06 pts/cycle) 291856 (0.06 pts/cycle) 583696 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 1287 (0.10 pts/cycle) 1287 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=1           fft spectrumf         N=1           fft spectrumf         N=1           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=1           fs:         logmel32x32 process         20;           logmel32	1096 [mode=0 inplace] 8192 [mode=0 inplace] 6384 [mode=0 inplace] 52768 [mode=0 inplace] 55536 [mode=0 inplace] 5536 [mode=0 inplace] 1024 [mode=0 inplace] 1024 [mode=1 inplace] 1 [mode=1 inplace] 1 [mode=1 inplace] 1 [mode=1 inplace] 2 [mode=1 inplace] 3 [mode=1 inplace] 3 [mode=1 inplace] 4 [mode=1 inplace] 5 [mode=1 inplace] 5 [mode=1 inplace] 6 [mode=1 inplace]	72976 (0.06 pts/cycle) 145936 (0.06 pts/cycle) 291856 (0.06 pts/cycle) 583696 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 118256 (0.06 pts/cycle) 111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 207 (0.02 pts/cycle) 208 (0.05 pts/cycle) 209 (0.05 pts/cycle) 209 (0.07 pts/cycle) 209 (0.09 pts/cycle) 209 (0.01 pts/cycle) 209 (0.11 pts/cycle) 200 (0.11 pts/cycle) 200 (0.11 pts/cycle) 201 (0.11 pts/cycle) 201 (0.11 pts/cycle)
fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=4           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=1           fft spectrumf         N=5           logmel32x32 process         F1a           logmel32x32 process         20;           logmel32x32 process         20;           logmel32x32 process         20;           logmel32x32 process         F5:           logmel32x32 process         F5:           logmel32x32 process         F6:	B192[mode=0 inplace] L6384[mode=0 inplace] B2768[mode=0 inplace] B5536[mode=0 inplace] B5536[mode=0 inplace] L024[mode=0 inplace] L[mode=1 inplace] L[mode=1 inplace] B[mode=1 inplace] B[mode=1 inplace] B[mode=1 inplace] B[mode=1 inplace] B2[mode=1 inplace] B2[mode=1 inplace] B2[mode=1 inplace] B28[mode=1 inplace] B28[mode=1 inplace] B398[mode=1 inplace] B3992[mode=1 inplace] B392[mode=1 inplace] B392[mode=1 inplace] B392[mode=1 inplace] B393[mode=1 inplace] B394[mode=1 inplace] B396[mode=1 inplace] B39768[mode=1 inplace] B3768[mode=1 inplace] B3768[mode=1 inplace] B3768[mode=1 inplace] B3768[mode=1 inplace] B3768[mode=1 inplace] B3768[mode=1 inplace]	145936 (0.06 pts/cycle) 291856 (0.06 pts/cycle) 583696 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 11256 (0.06 pts/cycle) 11256 (0.06 pts/cycle) 111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 207 (0.02 pts/cycle) 209 (0.03 pts/cycle) 200 (0.05 pts/cycle) 200 (0.07 pts/cycle) 201 (0.09 pts/cycle) 201 (0.10 pts/cycle) 201 (0.11 pts/cycle)
fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=1           spectrumf         N=1           fogmel32x32 process         Fs:           logmel32x32 process         20;           logmel32x32 process         20;           logmel32x32 process         50;           logmel32x32 process         51           logmel32x32 process         40;	1.6384[mode=0 inplace] 32768[mode=0 inplace] 55536[mode=0 inplace] 1.024[mode=0 inplace] 2.[mode=1 inplace] 2.[mode=1 inplace] 3.[mode=1 inplace] 3.[mode=1 inplace] 4.[mode=1 inplace] 5.2[mode=1 inplace] 5.2[mode=1 inplace] 5.4[mode=1 inplace] 5.56[mode=1 inplace] 5.56[mode=1 inplace] 5.12[mode=1 inplace] 5.13[mode=1 inplace]	291856 (0.06 pts/cycle) 583696 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 18256 (0.06 pts/cycle) 111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 322 (0.07 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=6           fft spectrumf         N=7           spectrumf         N=1           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=1           Fs:         logmel32x32 process         20;           logmel32x32 process         20;           fs:         logmel32x32 process         20;	32768 [mode=0 inplace] 55536 [mode=0 inplace] 22 [mode=1 inplace] 23 [mode=1 inplace] 24 [mode=1 inplace] 35 [mode=1 inplace] 36 [mode=1 inplace] 37 [mode=1 inplace] 38 [mode=1 inplace] 39 [mode=1 inplace] 39 [mode=1 inplace] 30 [mode=1 inplace] 30 [mode=1 inplace] 31 [mode=1 inplace] 32 [mode=1 inplace] 33 [mode=1 inplace] 34 [mode=1 inplace] 35 [mode=1 inplace] 36 [mode=1 inplace] 37 [mode=1 inplace] 38 [mode=1 inplace] 38 [mode=1 inplace] 39 [mode=1 inplace] 30 [mode=1 inplace] 30 [mode=1 inplace] 31 [mode=1 inplace] 32 [mode=1 inplace] 32 [mode=1 inplace] 33 [mode=1 inplace] 34 [mode=1 inplace] 35 [mode=1 inplace] 35 [mode=1 inplace] 36 [mode=1 inplace]	583696 (0.06 pts/cycle) 1167376 (0.06 pts/cycle) 18256 (0.06 pts/cycle) 111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=7           spectrumf         N=7           logmel32x32 process         20;     <	55536[mode=0 inplace] 1024[mode=1 inplace] 2[mode=1 inplace] 3[mode=1 inplace] 3[mode=1 inplace] 3[mode=1 inplace] 32[mode=1 inplace] 32[mode=1 inplace] 34[mode=1 inplace] 356[mode=1 inplace] 358[mode=1 inplace] 318[mode=1 inplace] 319[mode=1 inplace] 319[mode=1 inplace] 312[mode=1 inplace] 312[mode=1 inplace] 312[mode=1 inplace] 3132[mode=1 inplace] 3132[mode=1 inplace] 3132[mode=1 inplace] 31334[mode=1 inplace] 3136[mode=1 inplace] 31768[mode=1 inplace] 31768[mode=1 inplace] 31768[mode=1 inplace]	1167376 (0.06 pts/cycle) 18256 (0.06 pts/cycle) 111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=5           fft spectrumf         N=8           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=7           spectrumf         N=7           fft spectrumf         N=6           fft spectrumf         N=7           spectrumf         N=7           fft spectrumf         N=1           fft spectrumf         N=6           fft spectrumf         N=7           spectrumf         N=7           logmel32x32 process         20;           spectrumf         Fs:           logmel32x32 process         20;           spectrumf         Fs:           logmel32x32 process         20; <td>Property of the content of the conte</td> <td>111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)</td>	Property of the content of the conte	111 (0.02 pts/cycle) 207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=2           fft spectrumf         N=5           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=1           fft spectrumf         N=1           fogmel32x32 process         Fs:           logmel32x32 process         20;           fs:         logmel32x32 process         20;           fs:         logmel32x32 process         20;           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         40;	I[mode=1 inplace]  B[mode=1 inplace]  Component inplace]  B[mode=1 inplace]  Component inplace]  B[mode=1 inplace]  Component inplace]	207 (0.02 pts/cycle) 242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=8           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         Fs:           logme132x32 process         Fs:           logme132x32 process         20;           Fs:         logme132x32 process         20;           fs:         logme132x32 process         Fs:           logme132x32 process         Fs:         logme132x32 process           logme132x32 process         Fs:         logme132x32 process	R[mode=1 inplace] L6[mode=1 inplace] R2[mode=1 inplace] R4[mode=1 inplace] R54[mode=1 inplace] R56[mode=1 inplace] R56[mode=1 inplace] R512[mode=1 inplace] R512[mode=1 inplace] R512[mode=1 inplace] R512[mode=1 inplace] R512[mode=1 inplace] R512[mode=1 inplace] R51384[mode=1 inplace] R51384[mode=1 inplace] R51384[mode=1 inplace] R51384[mode=1 inplace] R51384[mode=1 inplace]	242 (0.03 pts/cycle) 322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=1           fft spectrumf         Fs:           logmel32x32 process         Fs:           logmel32x32 process         20;           fs:         logmel32x32 process         20;           logmel32x32 process         20;           logmel32x32 process         20;           fs:         logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         40;	1.6[mode=1 inplace] 32[mode=1 inplace] 54[mode=1 inplace] 528[mode=1 inplace] 528[mode=1 inplace] 528[mode=1 inplace] 512[mode=1 inplace] 612[mode=1 inplace] 6196[mode=1 inplace] 6192[mode=1 inplace] 6194[mode=1 inplace] 6194[mode=1 inplace] 6195[mode=1 inplace] 6196[mode=1 inplace] 6196[mode=1 inplace] 6196[mode=1 inplace] 6196[mode=1 inplace]	322 (0.05 pts/cycle) 459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fs:         logmel32x32 process         Fs:           logmel32x32 process         20;           logmel32x32 process         20;           logmel32x32 process         20;           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         40;	32 [mode=1 inplace] 54 [mode=1 inplace] 128 [mode=1 inplace] 156 [mode=1 inplace] 1512 [mode=1 inplace] 16048 [mode=1 inplace] 17948 [mode=1 inplace] 1795 [mode=1 inplace]	459 (0.07 pts/cycle) 735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=5           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=6           fft spectrumf         N=1           logmel32x32 process         Fs:           logmel32x32 process         20;           fs:         logmel32x32 process         20;           logmel32x32 process         20;           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         40;	54 [mode=1 inplace] 128 [mode=1 inplace] 256 [mode=1 inplace] 12 [mode=1 inplace] 2048 [mode=1 inplace] 2048 [mode=1 inplace] 3096 [mode=1 inplace] 36384 [mode=1 inplace] 32768 [mode=1 inplace] 32768 [mode=1 inplace] 35536 [mode=1 inplace]	735 (0.09 pts/cycle) 1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=1           fft spectrumf         N=2           fft spectrumf         N=5           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         N=1           fogmel32x32 process         Fs:           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         20;           fs:         logmel32x32 process           fs:         logmel32x32 process           fs:         logmel32x32 process           fs:         logmel32x32 process	128 [mode=1 inplace] 256 [mode=1 inplace] 312 [mode=1 inplace] 2048 [mode=1 inplace] 3096 [mode=1 inplace] 3192 [mode=1 inplace] 3192 [mode=1 inplace] 32768 [mode=1 inplace] 32768 [mode=1 inplace] 35536 [mode=1 inplace]	1287 (0.10 pts/cycle) 2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=2           fft spectrumf         N=5           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         Fs:           logmel32x32 process         Fs:           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         40;	256[mode=1 inplace] 512[mode=1 inplace] 2048[mode=1 inplace] 1096[mode=1 inplace] 1992[mode=1 inplace] 16384[mode=1 inplace] 32768[mode=1 inplace] 55536[mode=1 inplace]	2391 (0.11 pts/cycle) 4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=5           fft spectrumf         N=2           fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         Fs:           logmel32x32 process         Fs:           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         40;	512[mode=1 inplace] 2048[mode=1 inplace] 8096[mode=1 inplace] 8192[mode=1 inplace] 8192[mode=1 inplace] 82768[mode=1 inplace] 85536[mode=1 inplace]	4671 (0.11 pts/cycle) 18351 (0.11 pts/cycle) 36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=4           fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fs:         logmel32x32 process           logmel32x32 process         20;           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         20;           fs:         logmel32x32 process           fs:         logmel32x32 process           fs:         logmel32x32 process	1096[mode=1 inplace] 192[mode=1 inplace] 16384[mode=1 inplace] 182768[mode=1 inplace] 185536[mode=1 inplace]	36591 (0.11 pts/cycle) 73071 (0.11 pts/cycle)
fft spectrumf         N=8           fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           logmel32x32_process         F1a           logmel32x32_process         20;           logmel32x32_process         20;           logmel32x32_process         20;           logmel32x32_process         20;           logmel32x32_process         5s:           logmel32x32_process         F5:           logmel32x32_process         40;	3192[mode=1 inplace] 16384[mode=1 inplace] 182768[mode=1 inplace] 185536[mode=1 inplace]	73071 (0.11 pts/cycle)
fft spectrumf         N=1           fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           Fs:         logmel32x32 process         Fla           logmel32x32 process         20;           fs:         logmel32x32 process         20;           fs:         logmel32x32 process         20;           fs:         logmel32x32 process         5s:           logmel32x32 process         Fs:           logmel32x32 process         40;	1.6384[mode=1 inplace] 32768[mode=1 inplace] 55536[mode=1 inplace]	
fft spectrumf         N=3           fft spectrumf         N=6           fft spectrumf         N=1           fft spectrumf         Fs:           logmel32x32 process         Fs:           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         20;           fs:         logmel32x32 process           fs:         logmel32x32 process           fla         Fs:           logmel32x32 process         40;	32768[mode=1 inplace] 55536[mode=1 inplace]	
fft spectrumf         N=6           fft spectrumf         N=1           logmel32x32 process         Fla           logmel32x32 process         20;           fs:         logmel32x32 process           logmel32x32 process         20;           fs:         logmel32x32 process           fogmel32x32 process         Fs:           logmel32x32 process         Fs:           logmel32x32 process         40;	55536[mode=1 inplace]	146031 (0.11 pts/cycle)
fft spectrumf         N=1           logme132x32 process         F1a           logme132x32 process         20;           logme132x32 process         20;           logme132x32 process         20;           logme132x32 process         Fs:           logme132x32 process         Fs:           logme132x32 process         40;		291951 (0.11 pts/cycle)
Test		583790 (0.11 pts/cycle)
logme132x32 process	1024[mode=1 inplace] 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 20;	9229 (0.11 pts/cycle)
logmel32x32 process   20;   Fs:   logmel32x32 process   20;   Fs:   logmel32x32 process   Fs:   logmel32x32 process   Fs:   logmel32x32 process   Fs:   logmel32x32 process   40;   logmel32x32 process   40;   logmel32x32 process   40;   logmel32x32 process   20;   logmel3x32 proce	avor: HTK	1903 (cycles per STFT hop)
logmel32x32_process   20;   Fs:   logmel32x32_process   Fs:   logmel32x32_process   Fs:   logmel32x32_process   40;   logmel32x32_process   40;   logmel32x32_process   40;   logmel32x32_process   40;   logmel32x32_process   20;   logmel3x32_process   20;	: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: Flavor: HTK	2767 (cycles per STFT hop)
logme132x32 process 20;  logme132x32 process Fs: logme132x32 process Fs: logme132x32 process 40;	24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands: Flavor: HTK	3397 (cycles per STFT hop)
Ts:   logme132x32 process	: 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands: Flavor: HTK	4652 (cycles per STFT hop)
logme132x32_process Fs:	: 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 40;	2504 (cycles per STFT hop)
	: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: : Flavor: AUDITORY	3431 (cycles per STFT hop)
	: 24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands:	
Fs:	: Flavor: AUDITORY : 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands:	4068 (cycles per STFT hop)
logmel32x32_process 40; Fs:	: Flavor: AUDITORY : 8000; fftSize: 256; Win: 25 ms; Hop: 10 ms; Range:	5233 (cycles per STFT hop)
mfcc32x32_process 133	3.3-3700.0 Hz; Bands: 20; Ceps: 13; Flavor: HTK : 16000; fftSize: 512; Win: 25 ms; Hop: 10 ms; Range:	4716 (cycles per STFT hop)
mfcc32x32_process 133	3.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK: 24000; fftSize: 1024; Win: 25 ms; Hop: 10 ms; Range:	7570 (cycles per STFT hop)
mfcc32x32_process 133	3.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	11799 (cycles per STFT hop)
mfcc32x32_process 133	: 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range: 3.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK	19618 (cycles per STFT hop)
	: 8000; fftSize: 256; Win: 16 ms; Hop: 10 ms; Range:	4017 () CEEE box
Fs:	3.3-3700.0 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY : 16000; fftSize: 512; Win: 16 ms; Hop: 10 ms; Range:	4917 (cycles per STFT hop)
	3.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY 24000; fftSize: 1024; Win: 16 ms; Hop: 10 ms; Range:	7492 (cycles per STFT hop)
	3.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY : 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range:	10760 (cycles per STFT hop)
	3.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY : 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 20;	19137 (cycles per STFT hop)
logmelf_process Fla	avor: HTK : 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands:	2632 (cycles per STFT hop)
logmelf_process 20;	: Flavor: HTK : 24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands:	3913 (cycles per STFT hop)
logmelf process 20;	Flavor: HTK	4850 (cycles per STFT hop)
logmelf_process 20;	: 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands: : Flavor: HTK	6727 (cycles per STFT hop)
logmelf_process Fla	: 8000; fftSize: 256; Range: 133.3-3700.0 Hz; Bands: 40; avor: AUDITORY	3535 (cycles per STFT hop)
logmelf_process 40;	: 16000; fftSize: 512; Range: 133.3-6853.8 Hz; Bands: : Flavor: AUDITORY	4907 (cycles per STFT hop)
logmelf_process 40;	: 24000; fftSize: 1024; Range: 133.3-6853.8 Hz; Bands: Flavor: AUDITORY	5860 (cycles per STFT hop)
logmelf_process 40;		
	: 32000; fftSize: 2048; Range: 133.3-6853.8 Hz; Bands: Flavor: AUDITORY	7652 (cycles per STFT hop)
mfccf_process 133 mfccf process Fs:		7652 (cycles per STFT hop) 5908 (cycles per STFT hop)

		Cycles Measurements	
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5	
	133.3-6853.8 Hz; Bands: 20; Ceps: 13; Flavor: HTK		
	Fs: 24000; fftSize: 1024; Win: 25 ms; Hop: 10 ms; Range:		
mfccf_process	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)	
micci_process	Fs: 8000; fftSize: 256; Win: 16 ms; Hop: 10 ms; Range:	29143 (Cycles per Siri Nop)	
mfccf process	133.3-3700.0 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY	5942 (cycles per STFT hop)	
	Fs: 16000; fftSize: 512; Win: 16 ms; Hop: 10 ms; Range:		
mfccf_process	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:	14348 (cycles per STFT hop)	
micci_process	133.3-6853.8 Hz; Bands: 40; Ceps: 13; Flavor: AUDITORY Fs: 32000; fftSize: 2048; Win: 30 ms; Hop: 10 ms; Range:	14346 (Cycles per Siri Nop)	
mfccf process	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 SQCIF(128x96) 180 degrees	22230 (cycles) 7509 (cycles)	
imgrotate_gu8_process imgrotate gu8 process	SQCIF (128x96) 180 degrees SQCIF (128x96) 270 degrees	22481 (cycles)	
imgrotate qu8 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 imgrotate gu8 process	QCIF(176x144) 270 degrees QCIF(176x144) 45 degrees	44882 (cycles) 393901 (cycles)	
imgrotate gu8 process	QCIF(176x144) 45 degrees QCIF(176x144) 135 degrees	385854 (cycles)	
imgrotate gu8 process	QCIF(176x144) 225 degrees	394213 (cycles)	
imgrotate qu8 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 CIF(352x288) 135 degrees	1457764 (cycles)	
imgrotate_gu8_process imgrotate gu8 process	CIF(352x288) 133 degrees CIF(352x288) 225 degrees	1401844 (cycles) 1458387 (cycles)	
imgrotate gus 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) 1121704 (cycles)	
imgrotate_gu8_process imgrotate gu8 process	QVGA(320x240) 225 degrees 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 SQCIF(128x96) 270 degrees	6200 (cycles)	
<pre>imgfastrotate_gu8_process imgfastrotate gu8 process</pre>	SQCIF(128x96) 270 degrees SQCIF(128x96) 45 degrees	5831 (cycles) 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 QCIF(176x144) 45 degrees	10721 (cycles)	
imgfastrotate gu8 process imgfastrotate gu8 process	QCIF(176x144) 45 degrees QCIF(176x144) 135 degrees	364614 (cycles) 378635 (cycles)	
imgfastrotate gu8 process	QCIF(176x144) 133 degrees 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)	

		Cycles Measurements	
Function name	Invocation parameters	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 imgfastrotate_gu8_process	QVGA(320x240) 180 degrees QVGA(320x240) 270 degrees	32551 (cycles) 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 imgrotate gs8 process	SQCIF(128x96) 90 degrees SQCIF(128x96) 180 degrees	22230 (cycles) 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 QCIF(176x144) 225 degrees	390894 (cycles)	
imgrotate_gs8_process imgrotate_gs8_process	QCIF(176x144) 225 degrees QCIF(176x144) 315 degrees	397586 (cycles) 391144 (cycles)	
imgrotate gs8 process	CIF(352x288) 0 degrees	45621 (cycles)	
imgrotate qs8 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 QVGA(320x240) 180 degrees	130230 (cycles)	
imgrotate_gs8_process imgrotate gs8 process	QVGA(320x240) 180 degrees QVGA(320x240) 270 degrees	37263 (cycles) 130860 (cycles)	
imgrotate gs8 process	QVGA(320x240) 45 degrees	1130719 (cycles)	
imgrotate qs8 process	QVGA(320x240) 135 degrees	1113749 (cycles)	
imgrotate qs8 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 imgfastrotate gs8 process	SQCIF(128x96) 180 degrees SQCIF(128x96) 270 degrees	6199 (cycles) 5830 (cycles)	
imgfastrotate gs8 process	SQCIF(128x96) 270 degrees SQCIF(128x96) 45 degrees	189607 (cycles)	
imgfastrotate gs8 process	SQCIF(128x96) 135 degrees	199187 (cycles)	
imgfastrotate qs8 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 imgfastrotate_gs8_process	QCIF(176x144) 225 degrees QCIF(176x144) 315 degrees	369844 (cycles) 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)	

			Cycles Measurements
	Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
importance   mail   process   (000A)   200A   200			
Improcessed and Process   OVGA 13/00A-001   225 degrees   105587 (cycles)   105689			
Impresstotate gas process   OVAN 12004200   125 degrees   103489 (typles)   1040541019   1040541019   1040541019   120056 (typles)   1040541019			
improtected   color   color			
implicationate gas process			
impSatitutate gas process   12251 (sycles)   ImpSatitutate gas process   VGA(660A80) 180 degrees   12250 (sycles)   ImpSatitutate gas process   SQCIFI(128A86) 0 degrees   5945 (sycles)   ImpSatitutate gas process   SQCIFI(128A86) 0 degrees   5945 (sycles)   ImpSatitutate gas process   SQCIFI(128A86) 180 degrees   12250 (sycles)   ImpSatitutate gas process   SQCIFI(128A86) 180 degrees   12250 (sycles)   ImpSatitutate gas process   SQCIFI(128A86) 180 degrees   12880 (sycles)   ImpSatitut			
Improtate gas process			
	imgfastrotate_gs8_process	VGA(640x480) 270 degrees	
Improtate gil6 process   SQCFF(128x86) 180 degrees   7350 (cycles)			
Improtate gal6 process   SCCIF (1782485) 270 degrees   11725 (Sycles)   Improtate gal6 process   SCCIF (128286) 45 degrees   19896 (cycles)   Improtate gal6 process   SCCIF (128286) 135 degrees   19896 (cycles)   Improtate gal6 process   SCCIF (128286) 225 degrees   18971 (cycles)   Improtate gal6 process   SCCIF (178244) 0 degrees   19891 (cycles)   Improtate gal6 process   SCCIF (178244) 0 degrees   10405 (cycles)   Improtate gal6 process   SCCIF (178244) 0 degrees   12407 (cycles)   Improtate gal6 process   SCCIF (178244) 35 degrees   22407 (cycles)   Improtate gal6 process   SCCIF (178244) 270 degrees   22407 (cycles)   Improtate gal6 process   SCCIF (178244) 270 degrees   22407 (cycles)   Improtate gal6 process   SCCIF (178244) 270 degrees   22407 (cycles)   Improtate gal6 process   SCCIF (178244) 270 degrees   36130 (cycles)   Improtate gal6 process   SCCIF (178244) 270 degrees   36130 (cycles)   Improtate gal6 process   SCCIF (178244) 35 degrees   36507 (cycles)   Improtate gal6 process   SCCIF (178244) 35 degrees   36507 (cycles)   Improtate gal6 process   SCCIF (178244) 35 degrees   36507 (cycles)   Improtate gal6 process   SCCIF (178244) 35 degrees   36507 (cycles)   Improtate gal6 process   SCCIF (178244) 35 degrees   36507 (cycles)   Improtate gal6 process   SCCIF (178248) 35 degrees   36507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37507 (cycles)   Improtate gal6 process   SCCIF (178248) 37 degrees   37607 (cycles)   Improtat			
Ingrotate gal6 process   SOCIFI128x866   35 degrees   19983 (cycles)   Ingrotate gal6 process   SOCIFI128x866   235 degrees   199711 (cycles)   Ingrotate gal6 process   SOCIFI128x866   235 degrees   198911 (cycles)   Ingrotate gal6 process   SOCIFI128x866   235 degrees   198911 (cycles)   Ingrotate gal6 process   SOCIFI128x866   235 degrees   198911 (cycles)   Ingrotate gal6 process   COTIFI76x144   30 degrees   24087 (cycles)   Ingrotate gal6 process   COTIFI76x144   30 degrees   24087 (cycles)   Ingrotate gal6 process   COTIFI76x144   370 degrees   24087 (cycles)   Ingrotate gal6 process   COTIFI76x144   370 degrees   24087 (cycles)   Ingrotate gal6 process   COTIFI76x144   370 degrees   24087 (cycles)   Ingrotate gal6 process   COTIFI76x144   235 degrees   36087 (cycles)   Ingrotate gal6 process   COTIFI76x144   235 degrees   36087 (cycles)   Ingrotate gal6 process   COTIFI76x144   235 degrees   36087 (cycles)   Ingrotate gal6 process   COTIFI76x144   315 degrees   36087 (cycles)   Ingrotate gal6 process   COTIFI76x148   316 degrees   36087 (cycles)   Ingrotate gal6 process   COTIFI76x148   316 degrees   36087 (cycles)   Ingrotate gal6 process   COTIFI76x144   370 degrees   36087 (cycles)   Ingratotate gal6 proces   COTIFI76x144   370 degre			
Ingrotate gal6 process   SQCTF(128486) 135 degrees   19898 (cycles)   Ingrotate gal6 process   SQCTF(128486) 225 degrees   19891 (cycles)   Ingrotate gal6 process   SQCTF(128486) 315 degrees   19891 (cycles)   Ingrotate gal6 process   SQCTF(1784144) 0 degrees   194801 (cycles)   Ingrotate gal6 process   SQCTF(1784144) 0 degrees   194801 (cycles)   Ingrotate gal6 process   SQCTF(1784144) 180 degrees   194801 (cycles)   Ingrotate gal6 process   SQCTF(1784144) 181 degrees   194801 (cycles)   Ingratotate gal6 process   SQCTF(17841			
Improtate gal6 process   SCCIF(128496) 315 degrees   192801 (cycles)   Improtate gal6 process   CCIF(178414) 0 degrees   19405 (cycles)   Improtate gal6 process   CCIF(178414) 180 degrees   24057 (cycles)   Improtate gal6 process   CCIF(178414) 180 degrees   24057 (cycles)   Improtate gal6 process   CCIF(178414) 180 degrees   23056 (cycles)   Improtate gal6 process   CCIF(178414) 180 degrees   361010 (cycles)   Improtate gal6 process   CCIF(178414) 135 degrees   361010 (cycles)   Improtate gal6 process   CCIF(178414) 135 degrees   362644 (cycles)   Improtate gal6 process   CCIF(178414) 135 degrees   362644 (cycles)   Improtate gal6 process   CCIF(178414) 135 degrees   36059 (cycles)   Improtate gal6 process   CCIF(13828) 136 degrees   1990 (cycles)   Improtate gal6 process   CCIF(13828) 136 degrees   1343435 (cycles)   Improtate gal6 process   CCIF(13828) 136 degrees   1343435 (cycles)   Improtate gal6 process   CCIF(13828) 136 degrees   1343436 (cycles)   Improtate gal6 process   OVEA(130240) 0 degrees   134360 (cycles)   Improtate gal6 process   OVEA(130240) 0 degrees   134360 (cycles)   Improtate gal6 process   OVEA(130240) 0 degrees   134360 (cycles)   Improtate gal6 process   OVEA(130240) 136 degrees   132400 (cycles)   Improtate gal6 process   OVEA(1302400) 136 degrees   132400 (cycles)   Improtate gal6 process   OVEA(1302			
Imgrotate gal6 process   OCIF (176x144) 0 degrees   2007 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   2007 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   23056 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   23056 (cycles)     Imgrotate gal6 process   OCIF (176x144) 85 degrees   36130 (cycles)     Imgrotate gal6 process   OCIF (176x144) 85 degrees   360695 (cycles)     Imgrotate gal6 process   OCIF (176x144) 85 degrees   360695 (cycles)     Imgrotate gal6 process   OCIF (176x144) 825 degrees   360695 (cycles)     Imgrotate gal6 process   OCIF (176x144) 825 degrees   360695 (cycles)     Imgrotate gal6 process   OCIF (176x144) 825 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process   OCIF (176x144) 80 degrees   36507 (cycles)     Imgrotate gal6 process		SQCIF(128x96) 225 degrees	
Improtate gal6 process   CIFE(176x144) 80 degrees   24057 (cycles)   Improtate gal6 process   CIFE(176x144) 80 degrees   14408 (cycles)   Improtate gal6 process   CIFE(176x144) 80 degrees   23056 (cycles)   Improtate gal6 process   CIFE(176x144) 83 degrees   36130 (cycles)   Improtate gal6 process   CIFE(176x144) 83 degrees   362644 (cycles)   Improtate gal6 process   CIFE(176x144) 83 degrees   36608 (cycles)   Improtate gal6 process   CIFE(176x144) 83 degrees   36608 (cycles)   Improtate gal6 process   CIFE(15x288) 0 degrees   361302 (cycles)   Improtate gal6 process   CIFE(15x288) 0 degrees   361302 (cycles)   Improtate gal6 process   CIFE(15x288) 190 degrees   36120 (cycles)   Improtate gal6 process   CIFE(15x288) 190 degrees   1343438 (cycles)   Improtate gal6 process   CIFE(15x288) 135 degrees   134396 (cycles)   Improtate gal6 process   CIFE(15x288) 135 degrees   134396 (cycles)   Improtate gal6 process   CYGA(130x240) 0 degrees   28045 (cycles)   Improtate gal6 process   CYGA(130x240) 190 degrees   28045 (cycles)   Improtate gal6 process   CYGA(130x240) 190 degrees   1076317 (cycles)   Improtate gal6 process   CYGA(130x240) 190 degrees   17847 (cycles)   Improtate gal6			
Imgrotate gal6 process   QCIF(176x144) 130 degrees   14405 (cycles)     Imgrotate gal6 process   QCIF(176x144) 270 degrees   23056 (cycles)     Imgrotate gal6 process   QCIF(176x144) 45 degrees   361130 (cycles)     Imgrotate gal6 process   QCIF(176x144) 135 degrees   36095 (cycles)     Imgrotate gal6 process   QCIF(176x144) 225 degrees   36095 (cycles)     Imgrotate gal6 process   QCIF(176x144) 225 degrees   36095 (cycles)     Imgrotate gal6 process   QCIF(176x144) 215 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(176x144) 215 degrees   35507 (cycles)     Imgrotate gal6 process   QCIF(176x144) 215 degrees   35507 (cycles)     Imgrotate gal6 process   QCIF(176x148) 315 degrees   35507 (cycles)     Imgrotate gal6 process   QCIF(176x148) 270 degrees   35200 (cycles)     Imgrotate gal6 process   QCIF(176x148) 270 degrees   35200 (cycles)     Imgrotate gal6 process   QCIF(176x144) 270 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(126x26) 235 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(126x26) 355 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(176x144) 270 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(176x144) 270 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(176x144) 270 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(128x96) 355 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(128x96) 350 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(128x96) 350 degrees   36507 (cycles)     Imgrotate gal6 process   QCIF(128x96) 350 degrees   36507 (cycles)     Imgratatotate gal6 process   QCIF(128x96) 350 degrees   36507 (cycles)     Imgratatotate gal6 proces   QCI			
Imgrotate gal6 process   QCIF(176x144) 270 degrees   23056 (cycles)     Imgrotate gal6 process   QCIF(176x144) 135 degrees   336244 (cycles)     Imgrotate gal6 process   QCIF(176x144) 135 degrees   336244 (cycles)     Imgrotate gal6 process   QCIF(176x144) 135 degrees   336264 (cycles)     Imgrotate gal6 process   QCIF(176x144) 135 degrees   361302 (cycles)     Imgrotate gal6 process   QCIF(176x144) 135 degrees   361302 (cycles)     Imgrotate gal6 process   QCIF(176x144) 135 degrees   361302 (cycles)     Imgrotate gal6 process   QCIF(176x148) 235 degrees   39150 (cycles)     Imgrotate gal6 process   QCIF(176x2x288) 120 degrees   39150 (cycles)     Imgrotate gal6 process   QCIF(176x2x288) 135 degrees   1332290 (cycles)     Imgrotate gal6 process   QCIF(175x2x288) 135 degrees   1332290 (cycles)     Imgrotate gal6 process   QCIF(176x2828) 135 degrees   1332290 (cycles)     Imgrotate gal6 process   QCIF(175x2x288) 135 degrees   1332290 (cycles)     Imgrotate gal6 process   QCIF(176x288) 135 degrees   1329617 (cycles)     Imgrotate gal6 process   QCIF(176x280) 135 degrees   1329617 (cycles)     Imgrotate gal6 process   QCIF(128x96) 135 degrees   1329617 (cycles)     Imgrotate gal6 process   QCIF(128x96) 135 degrees			
improtate gal6 process   QCIF(176x144) 135 degrees   36130 (cycles)			1 4 7
Improtate gal6 process   OCIF(176x144) 135 degrees   362644 (cycles)			
improtate gal6 process   CIF(178x144) 315 degrees   361302 (cycles)			
Improtate gs16 process	imgrotate_gs16_process	QCIF(176x144) 225 degrees	360695 (cycles)
Improtate ga16 process			
improtate gs16 process			
Improtate gal6 process			
Improtate gai6 process			
Improtate galé process			
Imgrotate g916 process			
Imgrotate g316 process   QVGA(320x240) 0 degrees   28045 (cycles)			
Imgrotate gs16 process   QVGA(320x240) 90 degrees   T0014 (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) 225 degrees   1024596 (cycles)			
Imgrotate gs16 process   QVGA(320x240) 315 degrees   1034801 (cycles)	imgrotate_gs16_process	QVGA(320x240) 135 degrees	
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) 35 degrees         187115 (cycles)           imgfastrotate_gs16 process         SQCIF(128x96) 225 degrees         178347 (cycles)           imgfastrotate_gs16 process         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16 process         SQCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16 process         QCIF(176x144) 180 degrees         9833 (cycles)           imgfastrotate_gs16 process         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16 process         QCIF(176x144) 270 degrees         9794 (cycles) <td></td> <td></td> <td></td>			
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)			
imgrotate gs16 process         VGA(640x480) 270 degrees         261487 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 0 degrees         4076 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 90 degrees         5175 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 180 degrees         4379 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 270 degrees         5147 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 45 degrees         178421 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 135 degrees         187115 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)			
imgfastrotate_gs16_proces         SQCIF(128x96) 0 degrees         4076 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 90 degrees         5175 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 180 degrees         4379 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 270 degrees         5147 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 45 degrees         178421 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 135 degrees         187115 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)			
imgfastrotate_gs16_proces         SQCIF(128x96) 90 degrees         5175 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 180 degrees         4379 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 270 degrees         5147 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 45 degrees         178421 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 135 degrees         187115 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)			
s         SQCIF(128x96)         90 degrees         5175 (cycles)           imgfastrotate_gs16_proces         sQCIF(128x96)         180 degrees         4379 (cycles)           imgfastrotate_gs16_proces         sQCIF(128x96)         270 degrees         5147 (cycles)           imgfastrotate_gs16_proces         sQCIF(128x96)         45 degrees         178421 (cycles)           imgfastrotate_gs16_proces         sQCIF(128x96)         135 degrees         187115 (cycles)           imgfastrotate_gs16_proces         sQCIF(128x96)         225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         sQCIF(128x96)         315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         sQCIF(176x144)         0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         sQCIF(176x144)         90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         sQCIF(176x144)         180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         270 degrees         9794 (cycles)		SQCIF(128x96) 0 degrees	4076 (cycles)
imgfastrotate_gs16_proces       SQCIF(128x96) 180 degrees       4379 (cycles)         imgfastrotate_gs16_proces       SQCIF(128x96) 270 degrees       5147 (cycles)         imgfastrotate_gs16_proces       SQCIF(128x96) 45 degrees       178421 (cycles)         imgfastrotate_gs16_proces       SQCIF(128x96) 135 degrees       187115 (cycles)         imgfastrotate_gs16_proces       SQCIF(128x96) 225 degrees       178347 (cycles)         imgfastrotate_gs16_proces       SQCIF(128x96) 315 degrees       186596 (cycles)         imgfastrotate_gs16_proces       SQCIF(176x144) 0 degrees       7772 (cycles)         imgfastrotate_gs16_proces       QCIF(176x144) 90 degrees       9833 (cycles)         imgfastrotate_gs16_proces       QCIF(176x144) 180 degrees       8217 (cycles)         imgfastrotate_gs16_proces       QCIF(176x144) 270 degrees       9794 (cycles)	imgfastrotate_gs16_proces	SOCIE(128v96) 90 degrees	5175 (cycles)
s         SQCIF(128x96)         180 degrees         4379 (cycles)           imgfastrotate         gs16 proces         5147 (cycles)           imgfastrotate         gs16 proces         5147 (cycles)           s         SQCIF(128x96)         45 degrees         178421 (cycles)           imgfastrotate         gs16 proces         187115 (cycles)           s         SQCIF(128x96)         125 degrees         187115 (cycles)           imgfastrotate         gs16 proces         178347 (cycles)           s         SQCIF(128x96)         315 degrees         186596 (cycles)           imgfastrotate         gs16 proces         7772 (cycles)           s         QCIF(176x144)         0 degrees         7772 (cycles)           imgfastrotate         gs16 proces         9833 (cycles)           imgfastrotate         gs16 proces         8217 (cycles)           imgfastrotate         gs16 proces         9794 (cycles)	imgfastrotate gs16 proces	ogoti(120x30) 30 degrees	orio (cycres)
s         SQCIF(128x96)         270 degrees         5147 (cycles)           imgfastrotate_gs16_proces         sQCIF(128x96)         45 degrees         178421 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96)         135 degrees         187115 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96)         225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96)         315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         270 degrees         9794 (cycles)	s	SQCIF(128x96) 180 degrees	4379 (cycles)
imgfastrotate_gs16_proces         SQCIF(128x96) 45 degrees         178421 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 135 degrees         187115 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)	imgfastrotate_gs16_proces		
s         SQCIF(128x96) 45 degrees         178421 (cycles)           imgfastrotate_gs16_proces         s         187115 (cycles)           imgfastrotate_gs16_proces         s         SQCIF(128x96) 225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         s         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         s         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         g         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         g         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         g         QCIF(176x144) 270 degrees         9794 (cycles)	S	SQCIF(128x96) 270 degrees	5147 (cycles)
imgfastrotate_gs16_proces s  SQCIF(128x96) 135 degrees 187115 (cycles)  imgfastrotate_gs16_proces s  SQCIF(128x96) 225 degrees 178347 (cycles)  imgfastrotate_gs16_proces s  SQCIF(128x96) 315 degrees 186596 (cycles)  imgfastrotate_gs16_proces s  QCIF(176x144) 0 degrees 7772 (cycles)  imgfastrotate_gs16_proces s  QCIF(176x144) 90 degrees 9833 (cycles)  imgfastrotate_gs16_proces s  QCIF(176x144) 180 degrees 8217 (cycles)  imgfastrotate_gs16_proces s  QCIF(176x144) 270 degrees 9794 (cycles)	imgtastrotate_gs16_proces	SOCIE (128×96) 45 degrees	178421 (cyclos)
s         SQCIF(128x96)         135 degrees         187115 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96)         225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96)         315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144)         270 degrees         9794 (cycles)	imafastrotate as16 proces	Sycir (126x90) 43 degrees	1704Z1 (Cycles)
imgfastrotate_gs16_proces         SQCIF(128x96) 225 degrees         178347 (cycles)           imgfastrotate_gs16_proces         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)	s	SQCIF(128x96) 135 degrees	187115 (cycles)
imgfastrotate_gs16_proces       SQCIF(128x96) 315 degrees       186596 (cycles)         imgfastrotate_gs16_proces       QCIF(176x144) 0 degrees       7772 (cycles)         imgfastrotate_gs16_proces       QCIF(176x144) 90 degrees       9833 (cycles)         imgfastrotate_gs16_proces       QCIF(176x144) 180 degrees       8217 (cycles)         imgfastrotate_gs16_proces       QCIF(176x144) 270 degrees       9794 (cycles)         imgfastrotate_gs16_proces       9794 (cycles)	imgfastrotate_gs16_proces		
s         SQCIF(128x96) 315 degrees         186596 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)	S	SQCIF(128x96) 225 degrees	178347 (cycles)
imgfastrotate_gs16_proces s QCIF(176x144) 0 degrees 7772 (cycles)  imgfastrotate_gs16_proces s QCIF(176x144) 90 degrees 9833 (cycles)  imgfastrotate_gs16_proces s QCIF(176x144) 180 degrees 8217 (cycles)  imgfastrotate_gs16_proces s QCIF(176x144) 270 degrees 9794 (cycles)  imgfastrotate_gs16_proces	imgfastrotate_gs16_proces	COCTE (129:06) 215 dograda	196506 (202122)
s         QCIF(176x144) 0 degrees         7772 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)           imgfastrotate_gs16_proces         9794 (cycles)	imafastrotate as16 proces	pycit(170x30) 212 dediees	TODDAD (GACTER)
imgfastrotate_gs16_proces         QCIF(176x144) 90 degrees         9833 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)           imgfastrotate_gs16_proces         9794 (cycles)	s	QCIF(176x144) 0 degrees	7772 (cycles)
imgfastrotate_gs16_proces s QCIF(176x144) 180 degrees 8217 (cycles) imgfastrotate_gs16_proces s QCIF(176x144) 270 degrees 9794 (cycles) imgfastrotate_gs16_proces	imgfastrotate_gs16_proces		·
s         QCIF(176x144) 180 degrees         8217 (cycles)           imgfastrotate_gs16_proces         QCIF(176x144) 270 degrees         9794 (cycles)           imgfastrotate_gs16_proces         9794 (cycles)	s	QCIF(176x144) 90 degrees	9833 (cycles)
imgfastrotate_gs16_proces s QCIF(176x144) 270 degrees 9794 (cycles) imgfastrotate_gs16_proces	imgfastrotate_gs16_proces	00777/17(-1144) 100	0217 (
s QCIF(176x144) 270 degrees 9794 (cycles) imgfastrotate_gs16_proces	imafastrotate as16 proces	QCIF(I/0XI44) I8U degrees	ozi/ (cycies)
imgfastrotate_gs16_proces	s s	QCIF(176x144) 270 degrees	9794 (cycles)
s QCIF(176x144) 45 degrees 345079 (cycles)	imgfastrotate_gs16_proces		
		QCIF(176x144) 45 degrees	345079 (cycles)

			Cycles Measurements
Implicationate_gail_process   QCTS(176x144) 135 degrees   35682 (cycles)	Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
implicationate   guid   process   corrections   correcti	imgfastrotate_gs16_proces		
Ingrastrotate_gal6_proces   CFF(176m124) 315 degrees   28077 (sycles)	s imgfastrotate_gs16_proces	QCIF(176x144) 135 degrees	356822 (cycles)
CIP   CIP	s immgfastrotate gs16 proces	QCIF(176x144) 225 degrees	344970 (cycles)
CTF(352-288) 90 degrees   28077 (cycles)	s	QCIF(176x144) 315 degrees	356051 (cycles)
CTF(352-288) 10 degrees   53229 (cycles)	s	CIF(352x288) 0 degrees	28077 (cycles)
CEPTSSEXESS   180 dagrees   28954 (cycles)	s	CIF(352x288) 90 degrees	35329 (cycles)
CFF(352x288) 270 degrees   1275474 (cycles)	<pre>imgfastrotate_gs16_proces s</pre>	CIF(352x288) 180 degrees	28954 (cycles)
Ingrastrotate_gal6_proces   CIF(352x288) 45 degrees   1275474 (cycles)   139785 (c	imgfastrotate_gs16_proces	CIF(352x288) 270 degrees	35255 (cvcles)
ingfastrotate_gale_proces   cry (352x288) 135 degrees   125785 (cycles)     ingfastrotate_gale_proces   cry (352x288) 255 degrees   1275257 (cycles)     ingfastrotate_gale_proces   cry (352x288) 315 degrees   1314329 (cycles)     ingfastrotate_gale_proces   cycles_gale_proces   c	imgfastrotate_gs16_proces		
Ingrastrotate_gale_proces   CFF(1552x288) 225 degrees   1275257 (cycles)	imgfastrotate_gs16_proces	-	
ingfastrotate_gai6_proces s	s imgfastrotate_gs16_proces	CIF(352x288) 135 degrees	1315/85 (cycles)
CTF(322288) 315 degrees   131429 (cycles)	s immgfastrotate gs16 proces	CIF(352x288) 225 degrees	1275257 (cycles)
Section   Sect	s	CIF(352x288) 315 degrees	1314329 (cycles)
Section   Content   Cont	S	QVGA(320x240) 0 degrees	21500 (cycles)
Section   Content   Cont	s	QVGA(320x240) 90 degrees	27070 (cycles)
Implicationate gale   Proces   State   State	<pre>imgfastrotate_gs16_proces s</pre>	QVGA(320x240) 180 degrees	22233 (cycles)
ingfastrotate_gsi6_proces   gVSA(320x240) 45 degrees   992647 (cycles)     ingfastrotate_gsi6_proces   gVSA(320x240) 135 degrees   1028149 (cycles)     ingfastrotate_gsi6_proces   gVSA(320x240) 225 degrees   992464 (cycles)     ingfastrotate_gsi6_proces   gVSA(320x240) 315 degrees   1026870 (cycles)     ingfastrotate_gsi6_proces   gVSA(320x240) 315 degrees   1026870 (cycles)     ingfastrotate_gsi6_proces   gVSA(640x480) 0 degrees   1026870 (cycles)     ingfastrotate_gsi6_proces   gVSA(640x480) 0 degrees   101965 (cycles)     ingfastrotate_gsi6_proces   gVSA(640x480) 180 degrees   101965 (cycles)     ingfastrotate_gsi6_proces   gVSA(640x480) 180 degrees   101965 (cycles)     ingfastrotate_gsi6_proces   gVSA(640x480) 180 degrees   101944 (cycle	imgfastrotate_gs16_proces		27010 (cycles)
Ingfastrotate_gsl6_proces   QVSA(320x240) 135 degrees   1028149 (cycles)     Ingfastrotate_gsl6_proces   QVSA(320x240) 225 degrees   982464 (cycles)     Ingfastrotate_gsl6_proces   QVSA(320x240) 315 degrees   1026870 (cycles)     Ingfastrotate_gsl6_proces   VSA(640x480) 0 degrees   1026870 (cycles)     Ingfastrotate_gsl6_proces   VSA(640x480) 0 degrees   101965 (cycles)     Ingfastrotate_gsl6_proces   VSA(640x480) 90 degrees   101965 (cycles)     Ingfastrotate_gsl6_proces   VSA(640x480) 180 degrees   101965 (cycles)     Ingfastrotate_gsl6_proces   VSA(640x480) 180 degrees   101844 (cycles)     Ingfastrotate_gsl6_proces   VSA(640x480) 180 degrees   128729 (cycles)     Ingfastrotate_gsl6	imgfastrotate_gs16_proces		
Impfastrotate_gs16_proces   SQUSA(320x240) 225 degrees   Sezes   Sezes   Squares   S	imgfastrotate_gs16_proces	-	
impfastrotate_gs16_proces	s imgfastrotate_gs16_proces	QVGA(320x240) 135 degrees	1028149 (cycles)
QVGA(320x240) 315 degrees   1026870 (cycles)	s imgfastrotate gs16 proces	QVGA(320x240) 225 degrees	982464 (cycles)
WGA (640x480) 0 degrees   B160 (cycles)	s	QVGA(320x240) 315 degrees	1026870 (cycles)
MgA(640x480) 90 degrees   101965 (cycles)	s	VGA(640x480) 0 degrees	81260 (cycles)
WGA(640x480) 180 degrees   S2713 (cycles)	s	VGA(640x480) 90 degrees	101965 (cycles)
Sample   S	imgfastrotate_gs16_proces s	VGA(640x480) 180 degrees	82713 (cycles)
Image processing	imgfastrotate_gs16_proces	VGA(640x480) 270 degrees	101844 (cycles)
imgresize gu8 process			
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) ->VGA (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) ->QCIF(176x144), nearest         505389 (cycles)           imgresize gu8 process         CIF (352x288) ->QVGA (320x240), nearest         505389 (cycles)           imgresize gu8 process         QVGA (320x240) ->QCIF(128x96), nearest         505389 (cycles)           imgresize gu8 process         QVGA (320x240) ->QCIF (176x144), nearest         85458 (cycles)           imgresize gu8 process         QVGA (320x240) ->QCIF (176x144), nearest         235527 (cycles)           imgresize gu8 process         VGA (640x480) ->QCIF (128x96), nearest         235527 (cycles)           imgresize gu8 process         VGA (640x480) ->QCIF (176x144), nearest         136137 (cycles)<			-
imgresize gu8 process   QCIF(176x144) ->SQCIF(128x96), nearest   38988 (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) ->QVGA(320x240), nearest 505389 (cycles) imgresize gu8 process QVGA(320x240) ->SQCIF(128x96), nearest 505389 (cycles) imgresize gu8 process QVGA(320x240) ->CIF (352x288), nearest 85458 (cycles) imgresize gu8 process QVGA(320x240) ->CIF (352x288), nearest 216543 (cycles) imgresize gu8 process QVGA(320x240) ->CIF (352x288), nearest 235527 (cycles) imgresize gu8 process QVGA(320x240) ->CIF (352x288), nearest 235527 (cycles) imgresize gu8 process VGA (640x480) ->CIF (352x288), nearest 309857 (cycles) imgresize gu8 process VGA (640x480) ->CIF (352x288), nearest 309857 (cycles) imgresize gu8 process VGA (640x480) ->CIF (352x288), nearest 309857 (cycles) imgresize gu8 process VGA (640x480) ->CIF (352x288), nearest 309857 (cycles) imgresize gu8 process SQCIF(128x96) ->QCIF(176x144), nearest 28720 (cycles) imgfastresize gu8 process SQCIF(128x96) ->QCIF (176x144), nearest 28720 (cycles) imgfastresize gu8 process SQCIF(128x96) ->QCIF (176x144), nearest 85857 (cycles) imgfastresize gu8 process SQCIF(128x96) ->QCIF (176x144), nearest 69256 (cycles) imgfastresize gu8 process SQCIF(128x96) ->QCIF (176x144), nearest 69256 (cycles) imgfastresize gu8 process SQCIF(128x96) ->QVGA (320x240), nearest 69256 (cycles) imgfastresize gu8 process SQCIF (128x96) ->QVGA (320x240), nearest 230597 (cycles) imgfastresize gu8 process SQCIF (128x96) ->QVGA (320x240), nearest 230597 (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) ->QVGA (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) ->QCIF(176x144), nearest         84276 (cycles)           imgresize gu8 process         VGA (640x480) ->QCIF(176x144), nearest         136137 (cycles)           imgresize gu8 process         VGA (640x480) ->QCIF (176x144), nearest         138203 (cycles)           imgfastresize gu8 process         SQCIF (128x96) ->QCIF (176x144), nearest         28720 (cycles)           imgfastresize gu8 process         SQCIF (128x96) ->CIF (352x288), nearest         88587 (cy	imgresize_gu8_process	QCIF(176x144)->CIF (352x288), nearest	88383 (cycles)
imgresize_gu8_process	imgresize_gu8_process	QCIF(176x144)->QVGA(320x240), nearest	139549 (cycles)
imgresize gu8 process			a de la companya de l
imgresize gu8 process			
imgresize gu8 process			
imgresize_gu8_process         QVGA(320x240) -> QCIF(128x96), nearest         53077 (cycles)           imgresize_gu8 process         QVGA(320x240) -> QCIF(176x144), nearest         85458 (cycles)           imgresize_gu8 process         QVGA(320x240) -> VGA (640x480), 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) -> CIF (352x288), nearest         88587 (cycles)           imgfastresize_gu8_process         SQCIF(128x96) -> CIF (352x288), nearest         69256 (cycles)           imgfastresize_gu8_process         SQCIF(128x96) -> CIF (352x288), nearest         69256 (cycles)           imgfastresize_gu8_process         SQCIF(128x96) -> CIF (352x288), nearest		1 7 7 1	
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) ->QCIF (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)			and the second s
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)->QCIF (176x144), nearest         309857 (cycles)           imgresize gu8 process         VGA (640x480)->QVGA(320x240), nearest         138203 (cycles)           imgfastresize gu8 process         SQCIF(128x96)->CIF (352x288), nearest         28720 (cycles)           imgfastresize gu8 process         SQCIF(128x96)->CIF (352x288), nearest         88587 (cycles)           imgfastresize gu8 process         SQCIF(128x96)->VGA(320x240), nearest         69256 (cycles)           imgfastresize gu8 process         SQCIF(128x96)->VGA (640x480), nearest         69256 (cycles)           imgfastresize gu8 process         SQCIF(128x96)->VGA (640x480), nearest         230597 (cycles)           imgfastresize gu8 process         QCIF (176x144)->SQCIF (128x96), nearest         19011 (cycles)			_
imgresize gu8 process       QVGA(320x240)->VGA (640x480), nearest       235527 (cycles)         imgresize gu8 process       VGA (640x480)->QCIF(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)->CIF (176x144), nearest       28720 (cycles)         imgfastresize gu8 process       SQCIF(128x96)->CIF (352x288), nearest       88587 (cycles)         imgfastresize gu8 process       SQCIF(128x96)->VGA(320x240), nearest       69256 (cycles)         imgfastresize gu8 process       SQCIF(128x96)->VGA (640x480), nearest       69256 (cycles)         imgfastresize gu8 process       SQCIF(128x96)->VGA (640x480), nearest       230597 (cycles)         imgfastresize gu8 process       QCIF(176x144)->SQCIF(128x96), nearest       19011 (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)->CIF (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)			
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)->CIF(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)			a de la companya de l
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)			
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         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         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         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         SQCIF(128x96)->VGA (640x480), nearest         230597 (cycles)           imgfastresize gu8 process         QCIF(176x144)->SQCIF(128x96), nearest         19011 (cycles)			
imgfastresize gu8 process QCIF(176x144)->SQCIF(128x96), nearest 19011 (cycles)			
imgfastresize gu8 process QCIF(176x144)->CIF (352x288), nearest 48390 (cycles)			
	imgfastresize gu8 process	QCIF(176x144)->CIF (352x288), nearest	48390 (cycles)

		Cycles Measurements	
Function name	Invocation parameters	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 CIF (352x288)->OCIF(176x144), nearest	28324 (cycles)	
imgfastresize gu8 process imgfastresize gu8 process	CIF (352x288)->QCIF(176x144), nearest CIF (352x288)->QVGA(320x240), nearest	24048 (cycles) 97695 (cycles)	
imgfastresize gu8 process	CIF (352x288)->VGA (640x480), nearest	286756 (cycles)	
imgfastresize qu8 process	QVGA(320x240) ->SQCIF(128x96), nearest	26693 (cycles)	
imgfastresize qu8 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 imgresize_gs8_process	QCIF(176x144)->SQCIF(128x96), nearest QCIF(176x144)->CIF (352x288), nearest	38987 (cycles) 88382 (cycles)	
imgresize gs8 process	QCIF(176x144)->CIF (352x288), nearest QCIF(176x144)->QVGA(320x240), nearest	139547 (cycles)	
imgresize gs8 process	QCIF(176x144)->QVGA(320x240), hearest	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 imgfastresize gs8 process	SQCIF(128x96)->CIF (352x288), nearest SQCIF(128x96)->QVGA(320x240), nearest	88588 (cycles) 69256 (cycles)	
imgfastresize gs8 process	SQCIF(128x96) -> VGA (640x480), nearest	230596 (cycles)	
imgfastresize gs8 process	QCIF(176x144) ->SQCIF(128x96), nearest	19011 (cycles)	
imgfastresize qs8 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 VGA (640x480)->SOCIF(128x96), nearest	132294 (cycles) 43012 (cycles)	
imgfastresize_gs8_process imgfastresize_gs8_process	VGA (640x480)->SQCIF(128x96), nearest VGA (640x480)->QCIF(176x144), nearest	68464 (cycles)	
imgfastresize gs8 process	VGA (640x480)->QCIF(170x144), hearest	166707 (cycles)	
imgfastresize gs8 process	VGA (640x480) -> OVGA (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 imgresize_gs16_process	QVGA(320x240)->SQCIF(128x96), nearest QVGA(320x240)->QCIF(176x144), nearest	42076 (cycles) 66730 (cycles)	
imgresize_gs16_process	QVGA(320x240)->QCIF(176x144), nearest QVGA(320x240)->CIF (352x288), nearest	160851 (cycles)	
imgresize gs16 process	QVGA(320x240)->CIF (352x288), nearest 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)	

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
imgfastresize_gs16_proces s	SQCIF(128x96)->QCIF(176x144), nearest	30680 (cycles)
imgfastresize_gs16_proces	SQCIF(128x96)->CIF (352x288), nearest	88421 (cycles)
imgfastresize_gs16_proces	SQCIF(128x96)->QVGA(320x240), nearest	69403 (cycles)
imgfastresize_gs16_proces		
imgfastresize_gs16_proces	SQCIF(128x96)->VGA (640x480), nearest	222221 (cycles)
imgfastresize_gs16_proces	QCIF(176x144)->SQCIF(128x96), nearest	20375 (cycles)
s imgfastresize_gs16_proces	QCIF(176x144)->CIF (352x288), nearest	52904 (cycles)
s imgfastresize gs16 proces	QCIF(176x144)->QVGA(320x240), nearest	77442 (cycles)
s imgfastresize gs16 proces	QCIF(176x144)->VGA (640x480), nearest	236863 (cycles)
s imgfastresize_gs16_proces	CIF (352x288)->SQCIF(128x96), nearest	31728 (cycles)
S	CIF (352x288)->QCIF(176x144), nearest	29278 (cycles)
imgfastresize_gs16_proces s	CIF (352x288)->QVGA(320x240), nearest	103296 (cycles)
imgfastresize_gs16_proces_s	CIF (352x288)->VGA (640x480), nearest	293623 (cycles)
<pre>imgfastresize_gs16_proces s</pre>	QVGA(320x240)->SQCIF(128x96), nearest	29351 (cycles)
imgfastresize_gs16_proces s	QVGA(320x240)->QCIF(176x144), nearest	47807 (cycles)
imgfastresize_gs16_proces s	QVGA(320x240)->CIF (352x288), nearest	124637 (cycles)
imgfastresize_gs16_proces	QVGA(320x240)->VGA (640x480), nearest	144199 (cycles)
imgfastresize_gs16_proces	VGA (640x480)->SQCIF(128x96), nearest	49680 (cycles)
imgfastresize_gs16_proces	VGA (640x480)->QCIF(176x144), nearest	78047 (cycles)
imgfastresize_gs16_proces		
imgfastresize_gs16_proces	VGA (640x480)->CIF (352x288), nearest	183239 (cycles)
imgresize gu8 process	VGA (640x480)->QVGA(320x240), nearest SQCIF(128x96)->QCIF(176x144), bilinear	81070 (cycles) 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 CIF (352x288)->QCIF(176x144), bilinear	211297 (cycles) 153085 (cycles)
imgresize_gu8_process imgresize gu8 process	CIF (352x288)->QCIF(170x144), 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) 90952 (cycles)
imgfastresize gu8 process	QCIF(176x144) ->SQCIF(128x96), bilinear	1 4 1
imgfastresize gu8 process imgfastresize gu8 process	QCIF(176x144)->CIF (352x288), bilinear QCIF(176x144)->QVGA(320x240), bilinear	178278 (cycles) 201335 (cycles)
imgfastresize qu8 process	QCIF(176x144)->QVGA(320x240), bilinear 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)->QCIF(170x144), 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)
·		

		Cycles Measurements
Function name	Invocation parameters	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 SQCIF(128x96)->CIF (352x288), bilinear	86879 (cycles) 253751 (cycles)
imgresize_gs8_process imgresize gs8 process	SQCIF(128x96)->CIF (352x288), bilinear SQCIF(128x96)->QVGA(320x240), bilinear	200845 (cycles)
imgresize qs8 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 imgresize gs8 process	CIF (352x288)->QCIF(176x144), bilinear CIF (352x288)->QVGA(320x240), bilinear	156469 (cycles) 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 imgfastresize_gs8_process	VGA (640x480)->QVGA(320x240), bilinear SQCIF(128x96)->QCIF(176x144), bilinear	438001 (cycles) 75635 (cycles)
imgfastresize gs8 process	SQCIF(128x96)->CIF (352x288), bilinear	228057 (cycles)
imgfastresize qs8 process	SQCIF(128x96)->QVGA(320x240), bilinear	180000 (cycles)
imgfastresize qs8 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 imgfastresize gs8 process	CIF (352x288)->SQCIF(128x96), bilinear CIF (352x288)->QCIF(176x144), bilinear	198481 (cycles) 137989 (cycles)
imgfastresize gs8 process	CIF (352x288)->QCIF(176x144), 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 imgfastresize gs8 process	VGA (640x480)->QCIF(176x144), bilinear VGA (640x480)->CIF (352x288), bilinear	527761 (cycles) 836610 (cycles)
imgfastresize gs8 process	VGA (640x480)->CIF (332x288), 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 imgresize_gs16_process	QCIF(176x144)->QVGA(320x240), bilinear QCIF(176x144)->VGA (640x480), bilinear	193382 (cycles) 589631 (cycles)
imgresize_gs16_process 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 imgresize gs16 process	QVGA(320x240)->VGA (640x480), bilinear VGA (640x480)->SQCIF(128x96), bilinear	483429 (cycles) 541317 (cycles)
imgresize_gs16_process	VGA (640x480)->SQCIF(128x96), Bilinear	584724 (cycles)
imgresize gs16 process	VGA (640x480) > QCII (170x144), Bilinear	874039 (cycles)
imgresize_gs16_process	VGA (640x480)->QVGA(320x240), bilinear	447264 (cycles)
imgfastresize_gs16_proces s	SQCIF(128x96)->QCIF(176x144), bilinear	70739 (cycles)
imgfastresize_gs16_proces s	SQCIF(128x96)->CIF (352x288), bilinear	203767 (cycles)
imgfastresize_gs16_proces s	SQCIF(128x96)->QVGA(320x240), bilinear	161856 (cycles)
imgfastresize_gs16_proces s imgfastresize gs16 proces	SQCIF(128x96)->VGA (640x480), bilinear QCIF(176x144)->SQCIF(128x96), bilinear	534665 (cycles) 92849 (cycles)

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
S		
<pre>imgfastresize_gs16_proces s</pre>	QCIF(176x144)->CIF (352x288), bilinear	161936 (cycles)
imgfastresize_gs16_proces s	QCIF(176x144)->QVGA(320x240), bilinear	189984 (cycles)
imgfastresize_gs16_proces	QCIF(176x144)->VGA (640x480), bilinear	584556 (cycles)
imgfastresize_gs16_proces	CIF (352x288)->SQCIF(128x96), bilinear	213744 (cycles)
imgfastresize_gs16_proces	CIF (352x288)->QCIF(176x144), bilinear	149794 (cycles)
imgfastresize_gs16_proces	CIF (352x288)->QVGA(320x240), bilinear	493458 (cycles)
imgfastresize_gs16_proces		-
imgfastresize_gs16_proces	CIF (352x288)->VGA (640x480), bilinear	745573 (cycles)
imgfastresize_gs16_proces	QVGA(320x240)->SQCIF(128x96), bilinear	179007 (cycles)
s imgfastresize_gs16_proces	QVGA(320x240)->QCIF(176x144), bilinear	220769 (cycles)
s imgfastresize_gs16_proces	QVGA(320x240)->CIF (352x288), bilinear	323009 (cycles)
s imgfastresize gs16 proces	QVGA(320x240)->VGA (640x480), bilinear	477199 (cycles)
s imgfastresize gs16 proces	VGA (640x480)->SQCIF(128x96), bilinear	534896 (cycles)
imgfastresize_gs10_proces s imgfastresize gs16 proces	VGA (640x480)->QCIF(176x144), bilinear	577967 (cycles)
s	VGA (640x480)->CIF (352x288), bilinear	866273 (cycles)
imgfastresize_gs16_proces s	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 SQCIF(128x96)->VGA (640x480), bicubic	256333 (cycles) 871658 (cycles)
imgresize_gu8_process		
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)->SQCIF(126x36), 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 qu8 process	SQCIF(128x96) ->QVGA(320x240), bicubic	237045 (cycles)
imgfastresize_gub_process	SQCIF(128x96)->QVGA(320x240), 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)
	QCIF(176x144)->QVGA(320x240), bicubic QCIF(176x144)->VGA (640x480), bicubic	864968 (cycles)
imgfastresize gu8 process		295827 (cycles)
imgfastresize_gu8_process	CIF (352x288)->SQCIF(128x96), bicubic CIF (352x288)->QCIF(176x144), bicubic	
imgfastresize_gu8_process		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)

		Cycles Measurements
Function name	Invocation parameters	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 imgresize_gs8_process	QVGA(320x240)->SQCIF(128x96), bicubic QVGA(320x240)->QCIF(176x144), bicubic	262572 (cycles) 315526 (cycles)
imgresize gs8 process	QVGA(320x240)->QCIF(170x144), bicubic	489106 (cycles)
imgresize gs8 process	QVGA(320x240) >CIF (332x200), 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 imgfastresize gs8 process	QVGA(320x240)->CIF (352x288), bicubic QVGA(320x240)->VGA (640x480), bicubic	458608 (cycles) 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 imgresize_gs16_process	VGA (640x480)->SQCIF(128x96), bicubic VGA (640x480)->QCIF(176x144), bicubic	833744 (cycles) 862647 (cycles)
imgresize gs16 process	VGA (640x480)->QCIF(1/6x144), bicubic VGA (640x480)->CIF (352x288), bicubic	1210638 (cycles)
imgresize gs16 process	VGA (640x480)->CIF (332x288), bleuble VGA (640x480)->QVGA(320x240), bleuble	639834 (cycles)
imgfastresize gs16 proces	.cm (olowloo) >gvon(ozowzło), bicubic	COSCUE (CYCLES)
s	SQCIF(128x96)->QCIF(176x144), bicubic	98603 (cycles)
imgfastresize_gs16_proces	SQCIF(128x96)->CIF (352x288), bicubic	281482 (cycles)
imgfastresize_gs16_proces	SQCIF(128x96)->QVGA(320x240), bicubic	223222 (cycles)
imgfastresize_gs16_proces		
imgfastresize_gs16_proces	SQCIF(128x96) ->VGA (640x480), bicubic	758269 (cycles)
s imgfastresize_gs16_proces	QCIF(176x144)->SQCIF(128x96), bicubic	127418 (cycles)
s imgfastresize_gs16_proces	QCIF(176x144)->CIF (352x288), bicubic	211852 (cycles)
s imgfastresize gs16 proces	QCIF(176x144)->QVGA(320x240), bicubic	270011 (cycles)
s imgfastresize_gs10_proces	QCIF(176x144)->VGA (640x480), bicubic	808497 (cycles)
imgrastresize_gs16_proces s	CIF (352x288)->SQCIF(128x96), bicubic	312051 (cycles)

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
imgfastresize_gs16_proces	CIF (352x288)->QCIF(176x144), bicubic	212495 (gyalag)
s imgfastresize_gs16_proces		213485 (cycles)
s imgfastresize gs16 proces	CIF (352x288)->QVGA(320x240), bicubic	676505 (cycles)
s imgfastresize gs16 proces	CIF (352x288)->VGA (640x480), bicubic	1064943 (cycles)
s	QVGA(320x240)->SQCIF(128x96), bicubic	259773 (cycles)
imgfastresize_gs16_proces s	QVGA(320x240)->QCIF(176x144), bicubic	306048 (cycles)
imgfastresize_gs16_proces		445791 (cycles)
imgfastresize_gs16_proces	QVGA(320x240)->CIF (352x288), bicubic	
s imgfastresize gs16 proces	QVGA(320x240)->VGA (640x480), bicubic	621195 (cycles)
s imgfastresize gs16 proces	VGA (640x480)->SQCIF(128x96), bicubic	827324 (cycles)
s	VGA (640x480)->QCIF(176x144), bicubic	855893 (cycles)
imgfastresize_gs16_proces s	VGA (640x480)->CIF (352x288), bicubic	1202873 (cycles)
imgfastresize_gs16_proces	VGA (640x480)->QVGA(320x240), bicubic	632404 (cycles)
image processing	VOR (VIVATOU) -/QVQR(32UA2IV), DICUDIC	032704 (Cycles)
functions miscellaneous image		
processing	SOCIF(128x96)	52146 (cyclos)
imghist_gu8 imghist gu8	QCIF (176x144)	52146 (cycles) 100577 (cycles)
imghist_gu8	CIF (352x288)	365682 (cycles)
imghist_gu8	QVGA (320x240)	279809 (cycles)
imghist_gu8	VGA (640x480)	1058612 (cycles)
imgfasthist_gu8 imgfasthist gu8	SQCIF(128x96) QCIF(176x144)	44380 (cycles) 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 imghist gs8	CIF (352x288) QVGA(320x240)	372238 (cycles) 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 imghist gs16	SQCIF (128x96)	44034 (cycles) 88395 (cycles)
imghist gs16	QCIF(176x144) 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 imgfasthist gs16	QVGA (320x240) VGA (640x480)	251027 (cycles) 981827 (cycles)
imgnorm gu8	SOCIF(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 imgfastnorm_gu8	SQCIF(128x96) QCIF(176x144)	25136 (cycles) 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 imgnorm gs8	QVGA (320x240) VGA (640x480)	162500 (cycles) 574524 (cycles)
imgfastnorm qs8	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) QVGA(320x240)	178204 (cycles)	
imgnorm_gs16 imgnorm_gs16	VGA (640x480)	136037 (cycles) 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 imgnorm qu8 nonlinear	VGA (640x480) SQCIF(128x96)	399525 (cycles) 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)	
<pre>imgfastnorm_gu8_nonlinear imgfastnorm_gu8_nonlinear</pre>	CIF (352x288) QVGA(320x240)	373863 (cycles) 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 imgnorm_gs8_nonlinear	QVGA (320x240) VGA (640x480)	318024 (cycles) 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 imgnorm_gs16_nonlinear	SQCIF (128x96)	39078 (cycles) 77600 (cycles)	
imgnorm_gs16_nonlinear	QCIF(176x144) CIF (352x288)	294584 (cycles)	
imgnorm gs16 nonlinear	QVGA (320x240)	224375 (cycles)	
imgnorm_gs16_nonlinear	VGA (640x480)	871121 (cycles)	
imgfastnorm_gs16_nonlinea r	SQCIF(128x96)	35597 (cycles)	
imgfastnorm_gs16_nonlinea r	QCIF(176x144)	70656 (cycles)	
imgfastnorm_gs16_nonlinea	CIF (352x288)	268020 (cycles)	
imgfastnorm_gs16_nonlinea	QVGA (320x240)	204178 (cycles)	
<pre>imgfastnorm_gs16_nonlinea r</pre>	VGA (640x480)	792289 (cycles)	
imginterleave	SQCIF(128x96)	49594 (cycles)	
imginterleave	QCIF(176x144)	101440 (cycles)	
imginterleave	CIF (352x288)	401269 (cycles)	
imginterleave	QVGA (320x240)	304330 (cycles) 1209850 (cycles)	
imginterleave imginterleave16	VGA (640x480) 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 imgfastinterleave	QCIF(176x144) CIF (352x288)	49840 (cycles) 194705 (cycles)	
imgfastinterleave	QVGA (320x240)	194705 (cycles) 147858 (cycles)	
imgfastinterleave	VGA (640x480)	583697 (cycles)	
imgfastinterleave16	SQCIF(128x96)	19315 (cycles)	
imgfastinterleave16	QCIF(176x144)	38469 (cycles)	
imgfastinterleave16	CIF (352x288)	146611 (cycles)	
imgfastinterleave16 imgdeinterleave	QVGA(320x240) SQCIF(128x96)	111620 (cycles) 50935 (cycles)	
imgdeinterleave	QCIF(128x96) QCIF(176x144)	103934 (cycles)	
imgdeinterleave	CIF (352x288)	409817 (cycles)	
imgdeinterleave	QVGA (320x240)	310917 (cycles)	
imgdeinterleave	VGA (640x480)	1233821 (cycles)	
imgdeinterleave16	SQCIF (128x96)	21256 (cycles)	
-	OCT (176 144)	42242 (cycles)	
imgdeinterleave16	QCIF(176x144)		
-	QCIF(1/6X144) CIF (352x288) QVGA(320x240)	160493 (cycles) 122227 (cycles)	

		Cycles Measurements
Function name	Invocation parameters	RI2020.4, HiFi4 with VFPU, bd5
imgfastdeinterleave	QCIF(176x144)	29397 (cycles)
imgfastdeinterleave	CIF(352x288)	106291 (cycles)
imgfastdeinterleave imgfastdeinterleave	QVGA (320x240) VGA (640x480)	81379 (cycles) 306740 (cycles)
imgfastdeinterleave	SQCIF(128x96)	18740 (cycles)
imgfastdeinterleave16	QCIF(126x36)	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 imgconvert rgbyuv16	CIF (352x288) QVGA(320x240)	609038 (cycles) 463383 (cycles)
imgconvert_rgbyuv16	VGA (640x480)	1809904 (cycles)
imgfastconvert rgbyuv	SQCIF (128x96)	74846 (cycles)
imgfastconvert rgbyuv	QCIF(126x96) 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 imgconvert yuvrgb16	SQCIF(128x96) QCIF(176x144)	83004 (cycles) 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 imgpad gu8	padding, SQCIF(128x96)->CIF (352x288) padding, SQCIF(128x96)->OVGA(320x240)	124358 (cycles) 88412 (cycles)
imgpad_guo	padding, SQCIF(128x96)->QVGA(320x240)  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) padding, QCIF(176x144)->QVGA(320x240)	106039 (cycles)
imgpad_gs8 imgpad_gs8	padding, QCIF(176x144)->QVGA(320x240) padding, QCIF(176x144)->VGA (640x480)	76571 (cycles) 364036 (cycles)
imgpad_gs8	padding, QCIF(1/6x144)->VGA (640x480)  padding, QVGA(320x240)->CIF (352x288)	115775 (cycles)
imgpad_gso	padding, QVGA(320x240) ->Cir (332x288)  padding, QVGA(320x240) ->VGA (640x480)	307865 (cycles)
imgpad_gso	padding, CIF (352x288)->VGA (640x480)	277079 (cycles)
imgpad_gs0	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)
77	padding, SQCIF(120X30)->VGA (040X400)	
imgpad gs16	padding, QCIF(176x144)->CIF (352x288)	54303 (cycles)

		Cycles Measurements
Function name	Invocation parameters	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 imgfastpad_gu8	padding, SQCIF(128x96)->CIF (352x288) padding, SQCIF(128x96)->QVGA(320x240)	29846 (cycles) 21991 (cycles)
imgfastpad_gu8	padding, SQCIF(128x96)->QVGA(320x240) 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 imgfastpad_gs8	padding, SQCIF(128x96)->QCIF(176x144) padding, SQCIF(128x96)->CIF (352x288)	7744 (cycles) 29885 (cycles)
imgfastpad_gs8	padding, SQCIF(128x96)->CIF (332x266)  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) padding, SQCIF(128x96)->CIF (352x288)	11754 (cycles)
imgfastpad_gs16 imgfastpad_gs16	padding, SQCIF(128x96)->CIF (352x288) padding, SQCIF(128x96)->QVGA(320x240)	54111 (cycles) 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) cropping, QCIF(176x144)->SQCIF(128x96)	119925 (cycles) 18260 (cycles)
imgpad_gu8 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 imgpad_gs8	cropping, VGA (640x480)->CIF (352x288) cropping, QCIF(176x144)->SQCIF(128x96)	98223 (cycles) 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) cropping, VGA (640x480)->QVGA(320x240)	117215 (cycles)
imgpad_gs8 imgpad_gs8	cropping, VGA (640x480)->QVGA(320x240) cropping, VGA (640x480)->CIF (352x288)	76315 (cycles) 98261 (cycles)
imgpad_gs0	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 imgpad_gs16	cropping, CIF (352x288)->QVGA(320x240) cropping, VGA (640x480)->QVGA(320x240)	44922 (cycles) 38682 (cycles)
imgpad_gs16	cropping, VGA (640x480)->QVGA(320x240) 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)

		Cycles Measurements
Function name	Invocation parameters	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) cropping, CIF (352x288)->QVGA(320x240)	9014 (cycles)
imgfastpad_gs8 imgfastpad gs8	cropping, CIF (352x288)->QVGA(320x240) cropping, VGA (640x480)->OVGA(320x240)	16324 (cycles) 17763 (cycles)
imgfastpad_gs0	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) cropping, VGA (640x480)->QVGA(320x240)	28186 (cycles)
imgfastpad_gs16 imgfastpad_gs16	cropping, VGA (640x480)->QVGA(320x240) cropping, VGA (640x480)->CIF (352x288)	30683 (cycles) 37776 (cycles)
image processing	olopping, von (olovion) voir (olovion)	37770 (030163)
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 imgfft gu8	QCIF(176x144) OVGA(320x240)	505109 (cycles) 1214824 (cycles)
imgfft gu8	QVGA(320X240) 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 imgfft_gs16	VGA (640x480) 64x64	4772607 (cycles) 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 imgifft gu8	64x64 128x128	66970 (cycles) 243375 (cycles)
imgifft qu8	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 imgifft gs8	256x256 512x512	925857 (cycles) 3677118 (cycles)
imgifft gs8	SQCIF(128x96)	189596 (cycles)
imgifft gs8	QCIF(176x144)	520661 (cycles)
imgifft qs8	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)

		Cycles Measurements
Function name	Invocation parameters	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.

	Code	Data	Symbols		
Object file	size	size	Global	Referenced	
			bqriir16x16_df1, bqriir16x16_df1_alloc,		
bgriir16x16 df1 hifi4.o	1734		bgriir16x16_df1_groupDelay, bgriir16x16 df1 init		
bdillingxie_dil_Hill4.0	1/34		bgriir16x16 df1 nd,		
			bgriir16x16 df1 nd alloc,		
			bqriir16x16_df1_nd_groupDelay,		
bqriir16x16_df1_nd_hifi4.o	1983		bqriir16x16_df1_nd_init		
			bqriir16x16_df2, bqriir16x16_df2_alloc,		
bgriir16x16 df2 hifi4.o	1918		<pre>bqriir16x16_df2_groupDelay, bgriir16x16 df2 init</pre>		
bq:::::0x10_d:2_ii::14.0	1310		bgriir16x16 df2 nd,		
			bgriir16x16 df2 nd alloc,		
			bqriir16x16_df2_nd_groupDelay,		
bqriir16x16_df2_nd_hifi4.o	1955		bqriir16x16_df2_nd_init		
			bqriir32x16_df1_alloc,	bqriir32x16_df1_nd_allo	
1	4.0		bqriir32x16_df1_groupDelay,	C,	
bqriir32x16 df1 hifi4.o bqriir32x16 df1 process hifi4	49		bqriir32x16_df1_init	bqriir32x16_df1_nd_init	
.o	25		bgriir32x16 df1	bgriir32x16 df1 nd	
			bgriir32x16 df2 alloc,	bgriir32x16 df2 nd allo	
			bqriir32x16 df2 groupDelay,	c,	
bqriir32x16_df2_hifi4.o	49		bqriir32x16_df2_init	bqriir32x16_df2_nd_init	
bqriir32x16_df2_process_hifi4					
.0	25		bqriir32x16_df2	bqriir32x16_df2_nd	
			bgriir32x32_df1_alloc, bgriir32x32_df1_groupDelay,	bqriir32x32_df1_nd_allo	
bgriir32x32 dfl hifi4.o	49		bgriir32x32_dfl_gfoupbelay,	bgriir32x32 df1 nd init	
bgriir32x32 df1 process hifi4	10		Dq111100m00_a11_1m10	D4IIIIODMOD_GII_MG_IMIO	
.0	25		bqriir32x32_df1	bqriir32x32_df1_nd	
			bqriir32x32_df2_alloc,	bqriir32x32_df2_nd_allo	
			bqriir32x32_df2_groupDelay,	С,	
bqriir32x32_df2_hifi4.o bqriir32x32_df2_process_hifi4	49		bqriir32x32_df2_init	bqriir32x32_df2_nd_init	
.o	25		bgriir32x32 df2	bgriir32x32 df2 nd	
.0	23		bqriir32x16 df1 nd alloc,	bqiiii32x32_di2_nd	
			bgriir32x16 df1 nd groupDelay,		
bqriir32x16_df1_nd_hifi4.o	246		bqriir32x16_df1_nd_init		
bqriir32x16_df1_nd_process_hi					
fi4.o	1485		bqriir32x16_df1_nd		
			bgriir32x16_df2_nd_alloc, bgriir32x16_df2_nd_groupDelay,		
bgriir32x16 df2 nd hifi4.o	221		bqriir32x16 df2 nd init		
bqriir32x16_df2_nd_process_hi					
fi4.o	1069		bqriir32x16_df2_nd		
			bqriir32x32_df1_nd_alloc,		
h	450		bqriir32x32_df1_nd_groupDelay,		
bqriir32x32_df1_nd_hifi4.o bqriir32x32 df1 nd process hi	450		bqriir32x32_df1_nd_init		
fi4.o	1821		bgriir32x32 df1 nd		
	1021		bgriir32x32 df2 nd alloc,		
			bqriir32x32 df2 nd groupDelay,		
bqriir32x32_df2_nd_hifi4.o	158		bgriir32x32_df2_nd_init		

Description		Code	Data	Symbols	
1229	Object file			Global	Referenced
1229					
sel complexCamp hif4.0		1229		bgriir32x32_df2_nd	
vec complexitivnmag hifitio         1474         vec complexitimnag           fft spectrumf hifitio         1576         vec complexitimnag           fft spectrumf hifitio         1301         fft spectrumf           fft spectrumf billio         1301         fft spectrumf           fft spectrumf billio         2203         24         fft spectrumf           fft spectrumf billio         2203         24         fft spectrumf           scl mac 328160f hiffid         194         oct mac 328160f         194           vec mod 328160f hiffid         194         vec mod 328160f         194           vec mod 328160f hiffid         612         vec mod 328160f           vec mod 328160f hiffid         612         vec mod 328160f           vec dot batch hiffid         305         vec dot batch fill           vec dot batch hiffid         305         vec dot batch fill           vec dot batch batch816 fill         244         vec dot batch816 fill           vec dot batch fillio         2346         vec dot batch816 fill           vec dot batch fillio         305         vec dot batch816 fillio           vec dot batch fillio         305         vec dot batch82           vec dot batch fillio         306         vec dot batch82 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
vec. complex/mag   hif4.0   1676					
### Fft spectrum					
### ### ### ### ### ### ### ### ### ##					
### ### ### ### ### ### ### ### ### ##			2.4		
				_ *	
scl mul 22x16ef hif14.0 194 scl mul 32x16ef				_ *	
vec         and 32x16ef hifi4.0         1034         vec         and 32x16ef hifi4.0         161         vec         vec         max 32x16ef hifi4.0         161         vec         max 32x16ef         max 32x16ef hifi4.0         1244         vec         dot 32x16ef         vec         max 32x16ef         max 32x16ef         vec         dot 32x16ef         vec         dot 32x16ef         max 32x16ef         vec         dot 32x16ef         dot 32x16ef         vec         dot 32x16ef         vec         dot 32x16ef         dot 32x16ef         vec         dot 32x16ef         vec         dot 32x16ef         dot 32x16ef         vec         dot 32x16ef         dot 32x16ef         dot 32x16ef         dot 32x16ef         dot 32x16ef		104			
	scl mac 32x16ef hifi4.o	194		scl mac 32x16ef	
vec max   32x16ef   hifi14.0   1244   vec dot   32x16ef   vec dot   batch16x16   fast   vec dot   batch16x16   fast   vec dot   batch16x16   hifi14.0   468   vec dot   batch16x16   hifi14.0   468   vec dot   batch16x16   batch16x16   hifi14.0   308   vec dot   batch16x16   batch16x16   vec dot	vec_add_32x16ef_hifi4.o	1034		vec_add_32x16ef	
vec dot 32x16ef hif14.0					
vec dot, batch16x16 fast_hifi4					
Section		1244		vec_dot_32x16ef	
wee dot batch16x16 hifi4.0         468         wee dot batch8x16 fast hifi4.0         324         vec dot batch8x16 fast hifi4.0         324         vec dot batch8x16 fast hifi4.0         324         vec dot batch8x16 hifi4.0         308         vec dot batch8x16         vec dot batch8x16 hifi4.0         308         vec dot batch8x8         vec dot batch8x8         vec dot batch8x8         vec dot batch8x8         vec dot batch8x16 hifi4.0         vec dot batch8x8         vec dot batch8x16         vec dot b		205		1 . 1 . 116 16 6 .	
were dot batch8x16 fast_hifi4.0         324         vec dot batch8x16 fast_           vec dot batch8x16 hifi4.0         2346         vec dot batch8x16           vec dot batch8x8 fast hifi4.0         8018         vec dot batch8x8           vec dot batch8x8 fast hifi4.0         8018         vec dot batch8x8           vec dot batch fish hifi4.0         876         vec dot batch fast           vec dot batch fish hifi4.0         1754         16           dct 16x16 cffts hifi4.0         1051         dct 16x16 cffts hifi4.0         NatureDSP Signal           dct 16x16 cffts hifi4.0         1051         dct 16x16 cffts hifi4.0         NatureDSP Signal           dct 32x16 cffts hifi4.0         434         dct 32x16 cffts hifi4.0         NatureDSP Signal           dct 32x22 cffts hifi4.0         456         dct 32x22         NatureDSP Signal           dct 32x32 hifi4.0         511         dct 32x32         NatureDSP Signal           dct 32x32 hifi4.0         4566         dct 32x32         NatureDSP Signal           dct 32x32 hifi4.0         356         52         dct2d 16.8, dct2d 16.8           dct 32x32 hifi4.0         356         4044         32x32           dct 32x32 hifi4.0         356         52         dct2d 16.8, dct2d 16.8           dct 32x32 hifi4.0					
Section		408		Vec_dot_batch16x16	
vec dot batch8x16 hifi4.0   2346   vec dot batch8x6   vec dot batch8x6   vec dot batch8x8   fist4.0   8018   vec dot batch8x8   vec dot batch6x8x8   vec dot batch6x8   vec dot batch6x8x8   vec dot batch6x8x8   vec dot batch6x8   vec dot batch6x8x8		324	1	vec dot batch8x16 fast	
wee dot batch8x8 fast hifi4.0         308         vec dot batch8x8 fast           wee dot batch8x8 hifi4.0         8018         vec dot batch8x8           wee dot batchf fast hifi4.0         876         vec dot batchf fast           dct 16x16 effts hifi4.0         1754         16         NatureDSF Signal 522, NatureDSF Signal 847           dct 16x16 hifi4.0         1051         dct 16x16 hifi4.0         NatureDSF Signal 1522, NatureDSF Signal 847           dct 32x16 effts hifi4.0         1051         dct 16x16 hifi4.0         NatureDSF Signal NatureDSF Signal 1521           dct 32x16 fifi4.0         434         dct 32x16         NatureDSF Signal NatureDSF Signal 848           dct 32x32 effts hifi4.0         436         24         NatureDSF Signal 520, NatureDSF Signal 848           dct 32x32 hifi4.0         511         dct 32x32 effts hifi4.0         NatureDSF Signal 520, NatureDSF Signal 848           dct 32x32 hifi4.0         4753         dct 32x16         NatureDSF Signal 520, NatureDSF Signal 848           dct 32x32 hifi4.0         4753         dct 32x16         NatureDSF Signal 520, NatureDSF Signal 540, NatureDSF Signal 541, NatureDSF Signal 542, NatureDSF Signal 542, NatureDSF Sign					
wee dot batch8x8 hifi4.0         8018         vec dot batch8x8           wee dot batchf fast hifi4.0         365         vec dot batchf           wee dot batchf fast hifi4.0         1754         16         NatureDSP Signal 522, NatureDSP Signal 847           dct 16x16 fiffs hifi4.0         1051         dct 16x16         NatureDSP Signal 1522, NatureDSP Signal 521         NatureDSP Signal NatureDSP Signal 1521           dct 32x16 fiffs hifi4.0         434         dct 32x16 hifi4.0         434         dct 32x32 hifi4.0         NatureDSP Signal NatureDSP Signal 848           dct 32x32 hifi4.0         511         dct 32x32 hifi4.0         466         24 NatureDSP Signal 520, NatureDSP Signal 848         NatureDSP Signal NatureDSP Signal 848           dct 32x32 hifi4.0         511         dct 32x32 hifi4.0         4666         dct 32x32           dct 32x32 hifi4.0         4666         dct 32x32         dct 4 32x16         NatureDSP Signal 520, NatureDSP Signal 848           dct2d 32x16 hifi4.0         4666         dct 4 32x16         NatureDSP Signal 520, NatureDSP Signal 848           dct2d 3x16 hifi4.0         966         52 dct2d 16 8, dct2d 8x16         NatureDSP Signal 548           dct1 fixid 5 hifi4.0         966         52 dct2d 16 8, dct2d 8x16         NatureDSP Signal 572, NatureDSP Signal 573, NatureDSP Si			İ		
vec dot batchf   fif14.0	vec_dot_batch8x8_hifi4.o	8018		vec_dot_batch8x8	
dct   16x16 cffts hifi4.0   1754					
Act   16x16   hifi4.0   1051					
det 16x16 hif14.0   1551	dct_16x16_cffts_hifi4.o	1754	16	NatureDSP_Signal_522, NatureDSP_Signal_847	
det 32x16 cffts hifi4.0	1 . 16 16 11614	1051		1 . 10 10	NatureDSP_Signal_522,
AstureDSP Signal   AstureDSP Signal   AstureDSP Signal   AstureDSP Signal			1.0	_	NatureDSP_Signal_84/
dct 32x16 hifi4.0         434         dct 32x16         NatureDSP Signal 520, NatureDSP Signal 848         NatureDSP Signal 520, NatureDSP Signal 848         NatureDSP Signal 520, NatureDSP Signal 848         NatureDSP Signal 520, NatureDSP Signal 520, NatureDSP Signal 520, NatureDSP Signal 520, NatureDSP Signal 522, NatureDSP Signal 524, NatureDSP Signal 524, NatureDSP Signal 524, NatureDSP Signal 526, NatureDSP Signal 527, NatureDSP Signal 527, NatureDSP Signal 524, NatureDSP Signal 526, NatureDSP Signal 527, NatureDSP Signal 528, NatureDSP Signal 529, NatureDSP Signal 520, NatureDSP Signal 526,	dct_32x16_ciits_hii14.6	1328	10	NatureDSP_Signal_U16, NatureDSP_Signal_521	Naturance Signal 016
dct 32x32 cffts hifi4.0	dct 32x16 hifi4.o	434		dct. 32x16	
Act			24		induleDel_Dignal_Oll
dct 32x32 hiffi4.0					NatureDSP_Signal_520,
dctd   32x32   hifi4.0   dctd   32x32   dctd   32x32   dctd   3xi6   hifi4.0   966   52   dct2d   16 8, dct2d   8xi6   dct2d   16x8   hifi4.0   1339   52   dct2d   16 8, dct2d   16x8   dctf   hifi4.0   dctf   hifi4.0   1389   dctf   hifi4.0   350   fft cplx 6xi6   hifi4.0   matureDSP_Signal_509, NatureDSP_Signal_511, NatureDSP_Signal_572, NatureDSP_Signal_573, r3 r5 hifi4.0   matureDSP_Signal_572, NatureDSP_Signal_573, NatureDSP_Signal_579, NatureDSP_Signa	dct_32x32_hifi4.o	511		dct_32x32	NatureDSP_Signal_848
dct2d 8x16 hifi4.0   966   52   dct2d 16 8, dct2d 8x16     idot2d 16x8 hifi4.0   1339   52   idct2d 16 8, idct2d 16x8     dctf hifi4.0   1389   4   dctf					
dct2d 16x8 hifi4.0   1339   52   idct2d 16 8, idct2d 16x8					
dctf hifi4.0					
fft_cplx 16x16 hifi4.0         350         fft_cplx16x16         NatureDSP Signal 509, NatureDSP_Signal 511, NatureDSP Signal 573, T3 r5 hifi4.0         NatureDSP Signal 572, NatureDSP Signal 573, Signal 573, NatureDSP Signal 573, NatureDSP Signal 573, NatureDSP Signal 579, NatureDSP Signal 560, NatureDSP Signal 561, NatureDSP Signal 562, NatureDSP Signal 562, NatureDSP Signal 563, NatureDSP Signal 564, NatureDSP Signal 565, NatureDSP Signal 564, NatureDSP Signal 566, NatureDSP Signal 5					
fft_cplx_16x16 hifi4.o         350         fft_cplx_16x16         NatureDSP_Signal_509, NatureDSP_Signal_511, NatureDSP_Signal_572, NatureDSP_Signal_573, NatureDSP_Signal_573, NatureDSP_Signal_573, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_579, NatureDSP_Signal_560, NatureDSP_Signal_561, NatureDSP_Signal_563, NatureDSP_Signal_564, NatureDSP_Signal_566, NatureDSP_Signal_570, NatureDSP_Signal	dcti_hiii4.o	1389	4	dcti	
NatureDSP_Signal 509, NatureDSP_Signal 511, NatureDSP_Signal 573, NatureDSP_Signal 573, NatureDSP_Signal 573, NatureDSP_Signal 577, NatureDSP_Signal 573, NatureDSP_Signal 577, NatureDSP_Signal 573, NatureDSP_Signal 577, NatureDSP_Signal 573, NatureDSP_Signal 577, NatureDSP_Signal 574, NatureDSP_Signal 576, NatureDSP_Signal 566, NatureDSP_Signal 566, NatureDSP_Signal 578, NatureDSP_Signal 579, NatureDSP_Signal 579, NatureDSP_Signal 570, NatureDSP_Signal 570, NatureDSP_Signal 570, NatureDSP_Signal 570, NatureDSP_Signal 570, NatureDSP_Signal 576, NatureDSP_Signal 576, NatureDSP_Signal 576, NatureDSP_Signal 576, NatureDSP_Signal 576, NatureDSP_Signal 576, NatureDSP_Signal 568, NatureDSP_Signal 569, NatureDSP_Signal 568, NatureDSP_Signal 569, NatureDSP_Signal 568, NatureDSP_Signal 569, NatureDSP_Signal 568, NatureDSP_Signal 569, NatureDSP_Signal 569, NatureDSP_Signal 568, NatureDSP_Signal 569, NatureDSP_Signal 569	fft cply 16v16 hifi4 o	350		fft cply16y16	
Strong   S	iic_cpix_ioxio_niiii.o	330			Nacarebor_bignar_521
T3 r5 hlfi4.0   5134   32   NatureDSP Signal 577, NatureDSP Signal 579   divsi3   divsi3, NatureDSP Signal 510, NatureDSP Signal 524, NatureDSP Signal 560, NatureDSP Signal 560, NatureDSP Signal 571, NatureDSP Signal 578, NatureDSP Signal 571, NatureDSP Signal 578, NatureDSP Signal 570, NatureDSP Signal 574, NatureDSP Signal 506, NatureDSP Signal 506, NatureDSP Signal 506, NatureDSP Signal 506, NatureDSP Signal 570, NatureDSP Signal 570, NatureDSP Signal 570, NatureDSP Signal 574, NatureDSP Signal 576   divsi3   divsi3, NatureDSP Signal 574, NatureDSP Signal 576   divsi3, NatureDSP Signal 577   divsi3, NatureDSP	fft cplx 16x16 stages scl2 r2				
NatureDSP_Signal   510, NatureDSP_Signal   524, NatureDSP_Signal   566, NatureDSP_Signal   567, NatureDSP_Signal   567, NatureDSP_Signal   578, Natu		5134	32	NatureDSP_Signal_577, NatureDSP_Signal_579	divsi3
NatureDSP_Signal_510, NatureDSP_Signal_524, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_569, NatureDSP_Signal_570, NatureDSP_Signal_569, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_560, NatureDSP_Signal_570, NatureDSP_Signal_570					divsi3,
NatureDSP_Signal_563, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_571, NatureDSP_Signal_571, NatureDSP_Signal_573, NatureDSP_Signal_970, NatureDSP_Signal_970, NatureDSP_Signal_971, NatureDSP_Signal_970, NatureDSP_Signal_973, NatureDSP_Signal_973, NatureDSP_Signal_566, NatureDSP_Signal_973, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_576, NatureDSP_Signal_564, NatureDSP_Signal_566, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_567, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566, NatureDSP_Signal_566					NatureDSP_Signal_509,
NatureDSP_Signal_567, NatureDSP_Signal_970, NatureDSP_Signal_970, NatureDSP_Signal_970, NatureDSP_Signal_970, NatureDSP_Signal_970, NatureDSP_Signal_970, NatureDSP_Signal_970, NatureDSP_Signal_973 NatureDSP_Signal_506, NatureDSP_Signal_508, NatureDSP_Signal_508, NatureDSP_Signal_509, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570 NatureDSP_Signal_570, NatureDSP_Sign					NatureDSP_Signal_511,
fft_cplx_16x16_stages_sc12_r4         7659         216         NatureDSP_Signal_971, NatureDSP_Signal_973         NatureDSP_Signal_973, NatureDSP_Signal_973         NatureDSP_Signal_973, NatureDSP_Signal_973, NatureDSP_Signal_973, NatureDSP_Signal_508, NatureDSP_Signal_508, NatureDSP_Signal_508, NatureDSP_Signal_569, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_576         NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_576         divsi3         divsi3         divsi3         AutreDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal					
r8 hifi4.o         7659         216         NatureDSP_Signal_971, NatureDSP_Signal_973         NatureDSP_Signal_973         NatureDSP_Signal_508, NatureDSP_Signal_508, NatureDSP_Signal_508, NatureDSP_Signal_508, NatureDSP_Signal_569, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_576         divsi3	fft cplx 16x16 stages scl2 r4				NatureDSP Signal 577,
NatureDSP_Signal_506, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_570, NatureDSP_Signal_576   divsi3		7659	216	NatureDSP Signal 971, NatureDSP Signal 973	NatureDSP Signal 579
### Coll				NatureDSP_Signal_506, NatureDSP_Signal_508,	
divsi3, NatureDSP_Signal_507, NatureDSP_Signal_523, NatureDSP_Signal_562, NatureDSP_Signal_564, NatureDSP_Signal_565, NatureDSP_Signal_564, NatureDSP_Signal_565, NatureDSP_Signal_568, NatureDSP_Signal_575  fft_cplx_32x16_hifi4.o			1	NatureDSP Signal 569, NatureDSP Signal 570,	
NatureDSP_Signal_507, NatureDSP_Signal_523, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_565, NatureDSP_Signal_568, NatureDSP_Signal_564, NatureDSP_Signal_560, NatureDSP_Signal_560	_r3_r5_hifi4.o	4148	32	NatureDSP_Signal_574, NatureDSP_Signal_576	
NatureDSP_Signal_507, NatureDSP_Signal_523, NatureDSP_Signal_524, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_568, NatureDSP_Signal_568, NatureDSP_Signal_568, NatureDSP_Signal_575					
NatureDSP_Signal_507, NatureDSP_Signal_523, NatureDSP_Signal_562, NatureDSP_Signal_564, NatureDSP_Signal_562, NatureDSP_Signal_564, NatureDSP_Signal_565, NatureDSP_Signal_568, NatureDSP_Signal_575  104 NatureDSP_Signal_575  NatureDSP_Signal_575  NatureDSP_Signal_575  NatureDSP_Signal_575  NatureDSP_Signal_575  NatureDSP_Signal_502, NatureDSP_Signal_504, NatureDSP_Signal_505, NatureDSP_Signal_539, NatureDSP_Signal_541, NatureDSP_Signal_542, NatureDSP_Signal_544, NatureDSP_Signal_551, NatureDSP_Signal_552, NatureDSP_Signal_557, NatureDSP_Signal_552, NatureDSP_Signal_557, NatureDSP_Signal_559, NatureDSP_Signal_560  divsi3 divsi3,					
NatureDSP_Signal_562, NatureDSP_Signal_564, NatureDSP_Signal_564, NatureDSP_Signal_565, NatureDSP_Signal_568,				NatureDSP Signal 507. NatureDSP Signal 523.	
fft_cplx_16x16_stages_scl3_r4 r8_hifi4.o         4620         104         NatureDSP_Signal_565, NatureDSP_Signal_568, NatureDSP_Signal_575         NatureDSP_Signal					NatureDSP Signal 570,
r8 hifi4.o       4620       104       NatureDSP_Signal 575       NatureDSP_Signal 575         fft cplx 32x16 hifi4.o       357       fft_cplx32x16       NatureDSP_Signal 502, NatureDSP_Signal 504, NatureDSP_Signal 504, NatureDSP_Signal 505, NatureDSP_Signal 539, NatureDSP_Signal 541, NatureDSP_Signal 542, NatureDSP_Signal 542, NatureDSP_Signal 548, NatureDSP_Signal 551, NatureDSP_Signal 551, NatureDSP_Signal 552, NatureDSP_Signal 557, NatureDSP_Signal 557, NatureDSP_Signal 557, NatureDSP_Signal 550, NatureDSP_Signal 560       divsi3	fft_cplx_16x16 stages scl3 r4		1		NatureDSP_Signal_574,
fft cplx 32x16 hifi4.0         357         fft cplx32x16         NatureDSP_Signal         NatureDSP_Signal         504, NatureDSP_Signal         NatureDSP_Signal         504, NatureDSP_Signal         539, NatureDSP_Signal         539, NatureDSP_Signal         542, NatureDSP_Signal         551, NatureDSP_Signal         551, NatureDSP_Signal         551, NatureDSP_Signal         557, NatureDSP_Signal         557, NatureDSP_Signal         557, NatureDSP_Signal         559, NatureDSP_Signal         560         divsi3         divsi3         divsi3,		4620	104		NatureDSP_Signal_576
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, r3_r5_hifi4.o					NatureDSP_Signal_518,
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_552, NatureDSP_Signal_557, NatureDSP_Signal_559, NatureDSP_Signal_560 divsi3 divsi3,	fft_cplx_32x16_hifi4.o	357			NatureDSP_Signal_519
NatureDSP_Signal_541, NatureDSP_Signal_542, NatureDSP_Signal_548, NatureDSP_Signal_551, NatureDSP_Signal_552, NatureDSP_Signal_557, r3_r5_hifi4.o			1		
NatureDSP_Signal_548, NatureDSP_Signal_551,  fft_cplx_32x16_stages_scl2_r2					
fft_cplx_32x16_stages_scl2_r2			1		
r3_r5_hifi4.o	fft cplx 32x16 stages sc12 r2				
divsi3,		5672	1		divsi3
,					divsi3,
			1		NatureDSP_Signal_502,
			1		NatureDSP_Signal_504,
	fft only 32v16 etagos sol2 ~4				NatureDSP_Signal_505, NatureDSP Signal 539,
		3950	104		NatureDSP_Signal_339,

	Codo	Code Data	Symbols		
Object file		size	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	
<pre>fft_cplx_32x16_stages_scl3_r4 _r8_hifi4.o</pre>	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_546, NatureDSP_Signal_555, NatureDSP_Signal_555, NatureDSP_Signal_555, NatureDSP_Signal_555, NatureDSP_Signal_555,	
fft_cplx_32x32_hifi4.o	334		fft_cplx32x32		
<pre>fft_cplx_stages_S2_radix2_3_5 32x32 hifi4.o</pre>	5193		NatureDSP_Signal_341, NatureDSP_Signal_342, NatureDSP_Signal_343, NatureDSP_Signal_344, NatureDSP_Signal_346, NatureDSP_Signal_346, NatureDSP_Signal_350, NatureDSP_Signal_351, NatureDSP_Signal_352, NatureDSP_Signal_353, NatureDSP_Signal_354, NatureDSP_Signal_356, NatureDSP_Signal_356, NatureDSP_Signal_359, NatureDSP_Signal_360	divsi3	
	3133		NatureDSP_Signal_347, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_357, NatureDSP_Signal_358, NatureDSP_Signal_415,	414010	
fft_cplx_stages_S2_radix4_8_3 2x32_hifi4.o	4764	24	NatureDSP_Signal_417, NatureDSP_Signal_418, NatureDSP_Signal_419	divsi3	
<pre>fft_cplx_stages_S3_radix2_3_5     _32x32 hifi4.o</pre>	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_3			NatureDSP_Signal_367, NatureDSP_Signal_368, NatureDSP_Signal_373, NatureDSP_Signal_378, NatureDSP_Signal_379, NatureDSP_Signal_420, NatureDSP_Signal_421,		
2x32_hifi4.o fft real 16x16 hifi4.o	4375 1173	32	NatureDSP_Signal_422 fft real16x16	divsi3 fft cplx16x16	
fft_real_32x16_hifi4.0	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 NatureDSP Signal 518,	
ifft real 32x16 hifi4.o	661 798		ifft_real32x16 ifft_real32x32	NatureDSP_Signal_518, NatureDSP_Signal_519	
1110_1601_32A32_H1114.0	130			divsi3,	
fft_cplx16x16_ie_hifi4.o	1699		fft_cplx16x16_ie	NatureDSP_Signal_340	
fft_cplx32x16_ie_hifi4.o	2489		fft cplx32x16 ie	NatureDSP_Signal_341, NatureDSP_Signal_348, NatureDSP_Signal_349, NatureDSP_Signal_363, NatureDSP_Signal_368, NatureDSP_Signal_369, NatureDSP_Signal_418,	
fft_cplx32x32_ie_hifi4.o fft_real16x16_ie_hifi4.o	377 657		fft_cplx32x32_ie fft_real16x16_ie	NatureDSP_Signal_421 fft cplx16x16 ie	
	7.00	l	TTC_TEGITOVIO_TE	TIC_ChIVIQXIQ_TE	

			Symbols		
Object file			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	644		W. L	11	
_hifi4.o	644		NatureDSP_Signal_340	divsi3 divsi3,	
ifft cplx16x16 ie hifi4.o	1626		ifft cplx16x16 ie	divsi3, NatureDSP Signal 340	
ifft cplx32x16 ie hifi4.o	2631		ifft cplx32x16 ie	NacureDSr_Signar_540	
				NatureDSP Signal 341,	
				NatureDSP_Signal_349, NatureDSP_Signal_358, NatureDSP_Signal_363, NatureDSP_Signal_369, NatureDSP_Signal_379, NatureDSP_Signal_418,	
ifft_cplx32x32_ie_hifi4.o	377		ifft_cplx32x32_ie	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	1664 1 6 1 1	
ifft_realf_ie_hifi4.o	794	1	ifft_realf_ie	ifft_cplxf_ie	
<pre>stereo_fft_cplx16x16_ie_hifi4 .o</pre>	2162		stereo fft cplx16x16 ie		
stereo fft cplx32x16 ie hifi4	2102		Stereo_iit_cpixioxio_ie		
.0	608	1	stereo fft cplx32x16 ie	NatureDSP Signal 800	
stereo fft cplx32x32 ie hifi4	300	t		NatureDSP Signal 801,	
.0	969		stereo fft cplx32x32 ie	NatureDSP Signal 802	
stereo fft cplxf ie hifi4.o	1215		stereo fft cplxf ie		
stereo ifft cplx16x16 ie hifi					
4.0	2121		stereo ifft cplx16x16 ie		
stereo ifft cplx32x16 ie hifi					
4.0	1000		stereo_ifft_cplx32x16_ie	NatureDSP_Signal_800	
stereo_ifft_cplx32x32_ie_hifi				NatureDSP_Signal_801,	
4.0	1403		stereo_ifft_cplx32x32_ie	NatureDSP_Signal_802	
stereo_ifft_cplxf_ie_hifi4.o	1336		stereo_ifft_cplxf_ie		
stereo_fft_cplx32x16_ie_inner	0500		W-1 PGP G' 1 000		
hifi4.o stereo fft cplx32x32 ie inner	2509		NatureDSP_Signal_800		
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,		
conv2d_11x7_16x16_hifi4.o	1189		conv2d_11x7_16x16_getScratchSize		
conv2d 11x7 8x16 hifi4.o	102		conv2d_11x7_8x16, conv2d_11x7_8x16 getScratchSize	conv2d_11x7_16x16, conv2d_11x7_16x16_getSc ratchSize	
	T		conv2d 11x7 8x8,	-	
conv2d_11x7_8x8_hifi4.o	1406		conv2d_11x7_8x8_getScratchSize		
			conv2d_3x3_16x16,		
conv2d_3x3_16x16_hifi4.o	509		conv2d_3x3_16x16_getScratchSize		
			01 2 2 0 16	conv2d_3x3_16x16,	
control 3v3 0v16 hifi/ -	92	1	conv2d_3x3_8x16, conv2d 3x3 8x16 getScratchSize	conv2d_3x3_16x16_getScr atchSize	
conv2d_3x3_8x16_hifi4.o	92	1	conv2d_3x3_8x16_getScratchSize	acchaize	
conv2d 3x3 8x8 hifi4.o	753	1	conv2d_3x3_8x8 getScratchSize		
	, , , ,	1	conv2d 5x5 16x16,	†	
conv2d 5x5 16x16 hifi4.o	1270	1	conv2d 5x5 16x16 getScratchSize		
				conv2d_5x5_16x16,	
		1	conv2d_5x5_8x16,	conv2d_5x5_16x16_getScr	
conv2d_5x5_8x16_hifi4.o	138		conv2d_5x5_8x16_getScratchSize	atchSize	
0.1.5.5.0.0			conv2d_5x5_8x8,		
conv2d_5x5_8x8_hifi4.o	1581	<u> </u>	conv2d_5x5_8x8_getScratchSize		
conv2d_11x7f_hifi4.o	1163	1	conv2d_11x7f, conv2d_11x7f_getScratchSize	+	
conv2d_3x3f_hifi4.o	3805	<del>                                     </del>	conv2d 3x3f, conv2d 3x3f getScratchSize		
conv2d_5x5f_hifi4.o	7164	<del>                                     </del>	<pre>conv2d_5x5f, conv2d_5x5f_getScratchSize stereo bkfir16x16 alloc,</pre>	bkfir16x16 alloc,	
stereo bkfir16x16 hifi4.o	105	1	stereo_bkfir16x16_alloc, stereo bkfir16x16 init	bkfir16x16_alloc, bkfir16x16 init	
stereo bkfir16x16 process hif	100	<del>                                     </del>	DECICO_DATITIONIO_INIC	PWITITIONIO_IIIIC	
i4.o	570		stereo bkfir16x16 process	bkfir16x16 process	
	1	t	stereo bkfir32x32 alloc,		
stereo bkfir32x32 hifi4.o	250	1	stereo bkfir32x32 init	1	
	250		DCCICO DKIIIDZKOZ INIC		
stereo_bkfir32x32_process_hif	250		beeled_briliozxdz_inie		

	Code	Data	Symbols		
Object file	size	size	Global	Referenced	
stereo_bqriir16x16_df1_hifi4.	157		stereo_bqriir16x16_df1_alloc, stereo_bqriir16x16_df1_groupDelay, stereo_bqriir16x16_df1_init	bqriir16x16_df1_alloc, bqriir16x16_df1_init	
stereo_bqriir16x16_df1_proces s_hifi4.o	629		stereo_bqriir16x16_df1	bqriir16x16_df1	
stereo_bqriir32x16_df1_hifi4.	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_proces s_hifi4.o	25		stereo_bqriir32x16_df1	stereo_bqriir32x16_df1_ nd	
stereo_bqriir32x32_df1_hifi4.	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_proces				stereo_bqriir32x32_df1_	
s hifi4.o	25		stereo_bqriir32x32_df1 stereo_bqriirf_df1_alloc, stereo_bqriirf_df1_groupDelay,	nd	
stereo_bqriirf_dfl_hifi4.o stereo_bqriirf_dfl_process_hi	234		stereo_bqriirf_dfl_init		
fi4.o stereo_bqriir16x16_df1_nd_hif	1711		stereo bqriirf_df1 stereo_bqriir16x16_df1_nd_alloc, stereo_bqriir16x16_df1_nd_groupDelay,	bqriir16x16_df1_nd_allo	
i4.o  stereo_bqriir16x16_df1_nd_pro cess hifi4.o	149 629		stereo_bqriir16x16_df1_nd_init stereo bqriir16x16 df1 nd	bqriir16x16_df1_nd_init bqriir16x16 df1 nd	
stereo_bqriir32x16_df1_nd_hif	390		stereo bqriir32x16_df1_nd_alloc, stereo bqriir32x16_df1_nd_groupDelay, stereo bqriir32x16_df1_nd_init		
stereo_bqriir32x16_df1_nd_pro cess_hifi4.o	1757		stereo_bqriir32x16_df1_nd		
stereo_bqriir32x32_df1_nd_hif i4.o	815		<pre>stereo_bqriir32x32_df1_nd_alloc, stereo_bqriir32x32_df1_nd_groupDelay, stereo_bqriir32x32_df1_nd_init</pre>		
stereo_bqriir32x32_df1_nd_process_hifi4.o	1184		stereo_bgriir32x32_dfl_nd		
stereo bgriirf dfl nd hifi4.o stereo bgriirf dfl nd process	226		stereo_bqriirf_df1_nd_alloc, stereo_bqriirf_df1_nd_groupDelay, stereo_bqriirf_df1_nd_init		
_hifi4.o	1795		stereo_bqriirf_dfl_nd	bkfirf_alloc,	
stereo bkfirf hifi4.o stereo bkfirf process hifi4.o	105 317		stereo bkfirf_alloc, stereo_bkfirf_init stereo bkfirf process	bkfirf_init bkfirf_process	
bkfir24x24p_hifi4.o bkfir24x24p_process_hifi4.o	296 723		bkfir24x24p_alloc, bkfir24x24p_init 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 bkfir32x32 hifi4.o	328 225		bkfir32x32ep_process 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	759 359	-	bkfira32x16_process		
bkfira32x32ep_hifi4.o bkfira32x32ep process hifi4.o	705		bkfira32x32ep_alloc, bkfira32x32ep_init bkfira32x32ep process		
bkfira32x32_hifi4.o	359		bkfira32x32_alloc, bkfira32x32_init		
bkfira32x32_process_hifi4.o  cxfir16x16 hifi4.o	554 667		<pre>bkfira32x32 process  cxfir16x16_alloc, cxfir16x16_init, cxfir16x16 process</pre>		
cxfir10x16_n1114.0	228	<u> </u>	cxfir10x16_process cxfir32x16_alloc, cxfir32x16_init		
cxfir32x16_process_hifi4.o	447		cxfir32x16_process		
cxfir32x32ep_hifi4.o cxfir32x32ep process hifi4.o	267 307	<del>                                     </del>	cxfir32x32ep_alloc, cxfir32x32ep_init cxfir32x32ep process	_	
cxfir32x32_hifi4.o	267	<u> </u>	cxfir32x32ep_process cxfir32x32_alloc, cxfir32x32_init		
cxfir32x32_process_hifi4.o	316		cxfir32x32_process		
bkfiraf hifi4.o bkfiraf process hifi4.o	158 684	1	bkfiraf_alloc, bkfiraf_init bkfiraf process		

	Code	Data	Symbols	
Object file	size	size	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 firdec16x16 D4 hifi4.o	295 318		NatureDSP_Signal_401 NatureDSP_Signal_402	
firdec16x16 DX hifi4.0	318		NatureDSP_Signal_402 NatureDSP_Signal_403	
TITUECTOATO_DA_NITT4.0	319		firdec16x16_alloc, firdec16x16_init,	NatureDSP_Signal_400, NatureDSP_Signal_401, NatureDSP_Signal_402,
firdec16x16_hifi4.o	468		firdec16x16_process	NatureDSP_Signal_403
firdec32x16 D2 hifi4.o	383		NatureDSP_Signal_423	
firdec32x16_D3_hifi4.o	455		NatureDSP_Signal_424	
firdec32x16_D4_hifi4.o	613 317		NatureDSP_Signal_425	
firdec32x16 DX hifi4.o	465		NatureDSP_Signal_426  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	Nacarezer_ergnar_ree
firdec32x32ep_B2_H1114.0	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 NatureDSP_Signal_214,
firdecf_hifi4.o	297	12		NatureDSP_Signal_215, NatureDSP_Signal_216, NatureDSP_Signal_217
fir_decimaf_2x_hifi4.o	315		NatureDSP_Signal_214	
fir_decimaf_3x_hifi4.o fir_decimaf_4x_hifi4.o	566 410		NatureDSP_Signal_215	
fir decimal 4x hifi4.0	294		NatureDSP_Signal_216  NatureDSP Signal 217	
firinterp16x16 D2 hifi4.0	335		NatureDSP Signal 392	
firinterp16x16_D2_H1114.0	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 alloc, firinterp32x16 init,	NatureDSP_Signal_427, NatureDSP_Signal_428, NatureDSP_Signal_429,
firinterp32x16 hifi4.o	623		firinterp32x16_a110C, firinterp32x16_init, firinterp32x16 process	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_alloc, firinterp32x32ep_init,	NatureDSP_Signal_183, NatureDSP_Signal_184, NatureDSP_Signal_185,
firinterp32x32ep_hifi4.o	484		firinterp32x32ep process	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_alloc, firinterp32x32_init, firinterp32x32_process	NatureDSP_Signal_388, NatureDSP_Signal_389, NatureDSP_Signal_390, NatureDSP_Signal_391
	101	L		

	Code Symbols			
Object file	Code size	Data size	Global	Referenced
				NatureDSP_Signal_218,
			firinterpf alloc, firinterpf init,	NatureDSP_Signal_219, NatureDSP Signal 220,
firinterpf hifi4.o	443	12	firinterpf process	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  cxfir convol32x16 hifi4.o	388 305		NatureDSP_Signal_221 cxfir convol32x16	
cxfir convol32x16 hifi4.0	1082		cxfir_convol32x16	
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_xcorra32x32,
fir_acorra32x32_hifi4.o	178		fir_acorra32x32	NatureDSP_Signal_383
fir_blms16x16_hifi4.o fir blms16x32_hifi4.o	1446 1101		fir blms16x16 fir blms16x32	NatureDSP Signal 008
fir blms32x32ep hifi4.o	869		fir blms32x32ep	NatureDSP Signal 008
fir_blms32x32_hifi4.o	1152		fir_blms32x32	NatureDSP_Signal_008
cxfir_blms32x32_hifi4.o	616		cxfir_blms32x32	NatureDSP_Signal_008
fir_convol16x16_hifi4.o	675		fir_convol16x16	
fir_convol32x16_hifi4.o	1355		fir_convol32x16	
fir_convol32x32ep_hifi4.o fir_convol32x32_hifi4.o	331 439		fir convol32x32ep fir convol32x32	
fir convola16x16 hifi4.o	312		fir convola16x16	NatureDSP Signal 382
fir convola32x16 hifi4.o	339		fir convola32x16	NatureDSP Signal 449
fir_convola32x32ep_hifi4.o	317		fir_convola32x32ep	NatureDSP_Signal_187
fir_convola32x32_hifi4.o	295		fir_convola32x32	NatureDSP_Signal_383
fir_lacorral6x16_hifi4.o	1288		fir_lacorral6x16	
fir_lacorra32x32_hifi4.o fir lconvola16x16 hifi4.o	764 238		fir_lacorra32x32 fir_lconvola16x16	NatureDSP Signal 384
fir lconvola32x32 hifi4.0	246		fir lconvola32x32	NatureDSP Signal 385
fir lxcorra16x16 hifi4.o	235		fir lxcorral6x16	NatureDSP Signal 384
fir_lxcorra32x32_hifi4.o	218		fir_lxcorra32x32	NatureDSP_Signal_385
fir_xcorr16x16_hifi4.o	661		fir_xcorr16x16	
fir_xcorr32x16_hifi4.o	1049		fir_xcorr32x16	
fir xcorr32x32ep hifi4.o fir xcorr32x32 hifi4.o	278 343		fir_xcorr32x32ep fir_xcorr32x32	
cxfir xcorr32x32 hifi4.0	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 raw corr16x16 hifi4.o	275 769		fir_xcorra32x32	NatureDSP_Signal_383
raw_corr16x16_n1f14.0	1335		NatureDSP Signal 382	
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 fir acorraf hifi4.o	236 29	-	cxfir xcorrf fir acorraf	fir xcorraf
fir acorra hifi4.0	25		fir acorra	fir xcorrat
fir blmsf hifi4.o	612		fir blmsf	111_100111
cxfir_blmsf_hifi4.o	527		cxfir_blmsf	
fir_convolaf_hifi4.o	331		fir_convolaf	NatureDSP_Signal_256
fir_convolf_hifi4.o	265	ļ	fir_convolf	
fir_xcorraf_hifi4.o fir xcorrf hifi4.o	246 252		fir xcorraf fir xcorrf	NatureDSP_Signal_256
raw corrf hifi4.0	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	
latr16v16 hifi4 a	E100	20	latr16x16_alloc, latr16x16_init,	
latr16x16 hifi4.o	5169	36		
LUCLULATO I PIUC HILLIT.U	90		NatureDSP Signal 431	
latr32x16 2 proc hifi4.o	90		NatureDSP Signal 431 NatureDSP Signal 432	
latr32x16 2 proc_hifi4.o latr32x16_3 proc_hifi4.o			NatureDSP_Signal_431 NatureDSP_Signal_432 NatureDSP_Signal_433	

	Code	Data size	Symbols		
Object file	size		Global	Referenced	
latr32x16_5_proc_hifi4.o	220		NatureDSP_Signal_435		
latr32x16_6_proc_hifi4.o latr32x16_7_proc_hifi4.o	218 570		NatureDSP Signal 436 NatureDSP Signal 437		
latr32x16 / proc_niii4.0	654		NatureDSP_Signal_437  NatureDSP Signal 438		
	301			NatureDSP_Signal_431, NatureDSP_Signal_432, NatureDSP_Signal_433, NatureDSP_Signal_434, NatureDSP_Signal_435, NatureDSP_Signal_436, NatureDSP_Signal_436,	
latr32x16_hifi4.o	811		latr32x16_alloc, latr32x16_init, latr32x16_process	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	122 159		NatureDSP_Signal_441		
latr32x32 3 proc hifi4.o latr32x32 4 proc hifi4.o	402		NatureDSP_Signal_442 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		
	010	26	latr32x32_alloc, latr32x32_init,	NatureDSP_Signal_440, NatureDSP_Signal_441, NatureDSP_Signal_442, NatureDSP_Signal_443, NatureDSP_Signal_444, NatureDSP_Signal_445, NatureDSP_Signal_446, NatureDSP_Signal_446,	
latr32x32_hifi4.o	210 308	36	latr32x32_process NatureDSP Signal 448	NatureDSP_Signal_448	
latr32x32_X_proc_hifi4.o	308		bqciirf dfl alloc, bqciirf dfl groupDelay,		
bgciirf dfl hifi4.o	191		bqciirf df1 init		
bqciirf dfl process hifi4.o	1671		bqciirf df1		
bqriirf dfl hifi4.o	300		<pre>bqriirf_df1_alloc, bqriirf_df1_groupDelay, bqriirf_df1_init</pre>		
bqriirf_dfl_process_hifi4.o	1660		bqriirf_df1		
bqriirf df2t hifi4.o	255		<pre>bqriirf_df2t_alloc, bqriirf_df2t_groupDelay, bqriirf_df2t_init</pre>		
bqriirf_df2t_process_hifi4.o	1941		bqriirf_df2t		
bqriirf_df2_hifi4.o	266		<pre>bqriirf_df2_alloc, bqriirf_df2_groupDelay, bqriirf_df2_init</pre>		
bqriirf_df2_process_hifi4.o	1360		bqriirf_df2		
bqciirf_dfl_nd_hifi4.o	183		<pre>bqciirf_df1_nd_alloc, bqciirf_df1_nd_groupDelay, bqciirf_df1_nd_init</pre>		
<pre>bqciirf_df1_nd_process_hifi4. o</pre>	1735		bqciirf_df1_nd		
bqriirf_dfl_nd_hifi4.o	322		<pre>bqriirf_df1_nd_alloc, bqriirf_df1_nd_groupDelay, bqriirf_df1_nd_init</pre>		
bqriirf_df1_nd_process_hifi4.	1584		bgriirf df1 nd		
bgriirf_df2t_nd_hifi4.o	397		bqriirf_df2t_nd_alloc, bqriirf_df2t_nd_groupDelay, bqriirf_df2t_nd_init		
<pre>bqriirf_df2t_nd_process_hifi4 .0</pre>	1724		bqriirf_df2t_nd		
bqriirf_df2_nd_hifi4.o	269		<pre>bqriirf_df2_nd_alloc, bqriirf_df2_nd_groupDelay, bqriirf_df2_nd_init</pre>		
<pre>bqriirf_df2_nd_process_hifi4. o</pre>	679		bgriirf_df2_nd		
latrf1_hifi4.o	133		NatureDSP_Signal_224		
latrf2_hifi4.o	298	ļ	NatureDSP_Signal_225		
latrf3_hifi4.o	484	-	NatureDSP_Signal_226	<u> </u>	
latrf4 hifi4.o	329 605	-	NatureDSP_Signal_227 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,	

		<b>D</b> (	Symbols	
Object file	Code size	Data size	Global	Referenced
				NatureDSP_Signal_227,
				NatureDSP_Signal_228, NatureDSP Signal 229,
				NatureDSP Signal 230,
				NatureDSP_Signal_231,
1 1 10 20 20 11514	115		1 10 00 00	NatureDSP_Signal_232
scl_alog10_32x32_hifi4.o	117 97		scl_antilog10_32x32 scl antilog2 32x32	NatureDSP_Signal_202 NatureDSP Signal 202
scl alog2 32x32 h1114.0	117		scl antilog2_32x32 scl antilogn 32x32	NatureDSP_Signal_202 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	455 157		scl_divide64x32 scl log10 32x32	NatureDSP Signal 011
scl log2 32x32 hifi4.0	134		sc1 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	218 194	20	scl_rsqrt32x32 scl sigmoid32x32	
scl_sigmoid32x32_nifi4.0	194	∠∪	scl_sigmoid32x32 scl_sine32x32	NatureDSP Signal 009
scl sqrt16x16 hifi4.0	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	
1 + 2222 hisi4 -	299		scl tan32x32	NatureDSP_Signal_008,
scl_tan_32x32_hifi4.o vec alog10 32x32 hifi4.o	589		vec antilog10 32x32	NatureDSP_Signal_009 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	451 968	0	vec_cosine32x32	NatureDSP_Signal_009
vec_divide16x16_fast_hifi4.o	1066	8	vec_divide16x16_fast vec_divide16x16	
vec divide32x32 fast hifi4.o	713	0	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	789 921	4	vec_log2_32x32 vec_logn_32x32	NatureDSP_Signal_011 NatureDSP Signal 011
vec_recip16x16 hifi4.o	1101	8	vec_recip16x16	NacureDSr_Signar_011
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 vec_softmax32x32_hifi4.o	544 789	20	vec_sine32x32 vec_softmax32x32	NatureDSP_Signal_009
vec_sorthax32x32_hff14.0	1269	20	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	NaturoDCD Cicrol 000
vec tan 32x32 hifi4.o	1256		vec tan32x32	NatureDSP_Signal_008, NatureDSP Signal 009
VCC_CUIT_32X32_H1111.0	1230		VCC_CG1132A32	reent ptr,
				NatureDSP_Signal_206,
				NatureDSP_Signal_207,
				NatureDSP_Signal_212, NatureDSP Signal 241,
scl antilog10f hifi4.o	367		scl antilog10f	NatureDSP_Signal_241, NatureDSP Signal 244
	557			_reent_ptr,
				NatureDSP_Signal_208,
				NatureDSP_Signal_212,
scl antilog2f hifi4.o	347		scl antilog2f	NatureDSP_Signal_241, NatureDSP Signal 244
501_an0110921_n1114.0	J47		561_4110921	reent ptr,
				NatureDSP_Signal_212,
				NatureDSP_Signal_213,
agl ontilograf bisid	250		agl antilogne	NatureDSP_Signal_241,
scl_antilognf_hifi4.o	350 341		scl_antilognf scl_atan2f	NatureDSP_Signal_244 reent ptr,
001_0001121_111111.0	771	l	001_00dH21	

	0.4.	Dete	Symbols		
Object file	Code size	Data size	Global	Referenced	
				NatureDSP_Signal_209,	
				NatureDSP_Signal_210,	
				NatureDSP_Signal_241, NatureDSP Signal 244,	
				NatureDSP Signal 246,	
				NatureDSP_Signal_249	
				_reent_ptr,	
				NatureDSP_Signal_209, NatureDSP Signal 210,	
				NatureDSP Signal 241,	
				NatureDSP_Signal_244,	
scl_atanf_hifi4.o	220		scl_atanf	NatureDSP_Signal_246	
				_reent_ptr, NatureDSP Signal 241,	
				NatureDSP Signal 251,	
				NatureDSP_Signal_252,	
	000	0.4		NatureDSP_Signal_253,	
scl_cosinef_hifi4.o	298	24	scl_cosinef scl float2int	NatureDSP_Signal_268	
scl int2float hifi4.o	25		scl int2float		
Ser_incerious_miii.o	2.5		oci_inc2iioac	reent ptr,	
				NatureDSP_Signal_203,	
				NatureDSP_Signal_205,	
				NatureDSP_Signal_241, NatureDSP Signal 243,	
				NatureDSP Signal 244,	
scl_log10f_hifi4.o	552		scl_log10f	NatureDSP_Signal_258	
				_reent_ptr,	
				NatureDSP_Signal_234, NatureDSP Signal 241,	
				NatureDSP_Signal_241, NatureDSP_Signal_243,	
				NatureDSP Signal 244,	
scl_log2f_hifi4.o	549		scl_log2f	NatureDSP_Signal_258	
				_reent_ptr,	
				NatureDSP_Signal_233, NatureDSP Signal 241,	
				NatureDSP_Signal_241, NatureDSP Signal 243,	
				NatureDSP_Signal_244,	
				NatureDSP_Signal_258,	
scl_lognf_hifi4.o	558		scl_lognf	NatureDSP_Signal_260 reent ptr,	
				NatureDSP Signal 241,	
				NatureDSP_Signal_251,	
				NatureDSP_Signal_252,	
scl sinef hifi4.o	299	24	scl sinef	NatureDSP_Signal_253, NatureDSP Signal 268	
SCI_SINEI_NIII4.U	233	24	SCI_SINEI	reent ptr,	
				NatureDSP Signal 241,	
				NatureDSP_Signal_254,	
scl tanf hifi4.o	367	0.4		NatureDSP_Signal_255, NatureDSP Signal 268	
SCI_tani_niii4.0	307	24	scl_tanf	reent ptr,	
				NatureDSP Signal 479,	
				NatureDSP_Signal_480,	
1 +	207			NatureDSP_Signal_485,	
scl_tanhf_hifi4.o	387 28		scl_tanhf scl reluf	NatureDSP_Signal_512	
scl_relu1_H1114.0	17		scl_relu1 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	NatureDSP Signal 206,	
				NatureDSP_Signal_200, NatureDSP_Signal_207,	
vec_alog10f_hifi4.o	796		vec_antilog10f	NatureDSP Signal 212	
				NatureDSP_Signal_208,	
vec alog2f hifi4.o	829		was antilog?f	NatureDSP_Signal_212, NatureDSP_Signal_241	
vec_arog2r_IIII14.0	029		vec_antilog2f	NatureDSP_Signal_241 NatureDSP_Signal_212,	
				NatureDSP_Signal_213,	
vec_alognf_hifi4.o	831		vec_antilognf	NatureDSP_Signal_241	
	1			NatureDSP_Signal_209,	
				NatureDSP_Signal_210, NatureDSP_Signal_241,	
				NatureDSP Signal 244,	
				NatureDSP_Signal_246,	
vec_atan2f_hifi4.o	2233		vec_atan2f	NatureDSP_Signal_249	

	Code	Deta	Symbols		
Object file	Code size	Data size	Global	Referenced	
				NatureDSP_Signal_209,	
				NatureDSP_Signal_210, NatureDSP Signal 244,	
vec atanf hifi4.o	1818		vec atanf	NatureDSP Signal 246	
100_ucun1_n111110	1010		700_404I	NatureDSP Signal 241,	
				NatureDSP_Signal_251,	
				NatureDSP_Signal_252,	
vec cosinef hifi4.o	1767	24	vec cosinef	NatureDSP_Signal_253, NatureDSP Signal 268	
vec_cosiner_niii4.0	291	24	vec_cosiner  vec_float2int	NatureDSF_Signar_200	
vec int2float hifi4.o	331		vec int2float		
				NatureDSP_Signal_203,	
				NatureDSP_Signal_205,	
				NatureDSP_Signal_241, NatureDSP Signal 243,	
				NatureDSP Signal 244,	
vec log10f hifi4.o	1646	16	vec log10f	NatureDSP Signal 258	
				NatureDSP_Signal_234,	
				NatureDSP_Signal_241,	
				NatureDSP_Signal_243,	
vec log2f hifi4.o	1596	16	vec log2f	NatureDSP_Signal_244, NatureDSP Signal 258	
	1000	10		NatureDSP Signal 233,	
				NatureDSP_Signal_241,	
				NatureDSP_Signal_243,	
				NatureDSP_Signal_244,	
vec lognf hifi4.o	1587	16	vec lognf	NatureDSP_Signal_258, NatureDSP Signal 260	
vec_iogni_niii4.0	1307	1.0	Vec_logiii	NatureDSP Signal 241,	
				NatureDSP Signal 251,	
				NatureDSP_Signal_252,	
				NatureDSP_Signal_253,	
vec_sinef_hifi4.o	1787	24	vec_sinef	NatureDSP_Signal_268	
				NatureDSP_Signal_241, NatureDSP Signal 254,	
				NatureDSP_Signal_254, NatureDSP Signal 255,	
vec tanf hifi4.o	2416	24	vec tanf	NatureDSP Signal 268	
				NatureDSP Signal 479,	
				NatureDSP_Signal_480,	
				NatureDSP_Signal_485,	
vec tanhf hifi4.o	2492		vec tanhf	NatureDSP_Signal_512, scl tanhf	
vec_camir_niii4.0	180		vec_camir vec reluf	SCI_caiiii	
vec relu32x32 hifi4.o	195		vec relu32x32		
			-	NatureDSP_Signal_243,	
vec_softmaxf_hifi4.o	838		vec_softmaxf	vec_antilognf	
vec_recip64x64_hifi4.o	1855		vec_recip64x64		
vec_divide64x64_hifi4.o	2618		vec_divide64x64	NatureDSP Signal 386,	
vec sqrt32x16 hifi4.o	975		vec sqrt32x16	scl sqrt32x16	
vec sigmoidf hifi4.o	1967	36	vec sigmoidf	scl sigmoidf	
				NatureDSP Signal 450,	
				NatureDSP_Signal_451,	
vec_pow_32x32_hifi4.o	3364		vec_pow_32x32	NatureDSP_Signal_452	
scl pow 32x32 hifi4.o	570		NatureDSP Signal 452	NatureDSP_Signal_450, NatureDSP Signal 451	
3C1_POW_32832_HIII14.0	370		Macarenor_orduar_402	NatureDSP Signal 451	
				NatureDSP Signal 244,	
				NatureDSP_Signal_479,	
vec_powf_hifi4.o	4426	72	vec_powf	NatureDSP_Signal_484	
				_reent_ptr,	
				NatureDSP_Signal_241, NatureDSP Signal 244,	
				NatureDSP Signal 479,	
scl_powf_hifi4.o	1299	36	scl_powf	NatureDSP_Signal_484	
mtx_inv2x2f_hifi4.o	99		mtx_inv2x2f, mtx_inv2x2f_getScratchSize		
mtx_inv3x3f_hifi4.o	394		<pre>mtx_inv3x3f, mtx_inv3x3f_getScratchSize</pre>		
mtx_inv4x4f_hifi4.o	592	ļ	mtx_inv4x4f, mtx_inv4x4f_getScratchSize		
mtx_inv6x6f_hifi4.o	810		mtx_inv6x6f, mtx_inv6x6f_getScratchSize	<u> </u>	
mtx_inv8x8f_hifi4.o mtx_inv10x10f_hifi4.o	917 1076		<pre>mtx_inv8x8f, mtx_inv8x8f_getScratchSize mtx_inv10x10f, mtx_inv10x10f_getScratchSize</pre>		
cmtx gjelim10x10 32x32 hifi4.	Τ0/0		cmtx gjelim10x10 32x32,		
cmca gjetimioaio Jaaja Hilli.	1	I	cmtx_gjelim10x10_32x32, cmtx_gjelim10x10_32x32_getScratchSize		
	3017				
0	3017		cmtx gjelim2x2 32x32,		
	1040				

	Code	Data	Symbols			
Object file	size	size	Global	Referenced		
			cmtx_gjelim3x3_32x32_getScratchSize			
cmtx gjelim4x4 32x32 hifi4.o	1513		<pre>cmtx_gjelim4x4_32x32, cmtx gjelim4x4_32x32 getScratchSize</pre>			
cmtx gjelim6x6 32x32 hifi4.o	1997		cmtx_gjelim6x6_32x32, cmtx_gjelim6x6_32x32_getScratchSize			
			cmtx_gjelim8x8_32x32,			
cmtx_gjelim8x8_32x32_hifi4.o	2678		cmtx_gjelim8x8_32x32_getScratchSize cmtx_inv10x10_32x32,			
cmtx_inv10x10_32x32_hifi4.o	1727		<pre>cmtx_inv10x10_32x32_getScratchSize cmtx inv2x2 32x32,</pre>			
cmtx_inv2x2_32x32_hifi4.o	1215		cmtx_inv2x2_32x32_getScratchSize cmtx_inv3x3_32x32,			
cmtx_inv3x3_32x32_hifi4.o	1309		cmtx_inv3x3_32x32_getScratchSize			
cmtx_inv4x4_32x32_hifi4.o	1511		cmtx_inv4x4_32x32, cmtx_inv4x4_32x32_getScratchSize			
cmtx_inv6x6_32x32_hifi4.o	1449		<pre>cmtx_inv6x6_32x32, cmtx_inv6x6_32x32_getScratchSize</pre>			
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,			
mtx_gjelim2x2_32x32_hifi4.o	238		<pre>mtx_gjelim2x2_32x32_getScratchSize mtx_gjelim3x3_32x32,</pre>			
mtx_gjelim3x3_32x32_hifi4.o	1106		mtx_gjelim3x3_32x32_getScratchSize mtx_gjelim4x4_32x32,			
mtx_gjelim4x4_32x32_hifi4.o	1214		mtx_gjelim4x4_32x32_getScratchSize mtx_gjelim6x6_32x32,			
mtx_gjelim6x6_32x32_hifi4.o	1493		mtx_gjelim6x6_32x32_getScratchSize mtx_gjelim8x8_32x32,			
mtx_gjelim8x8_32x32_hifi4.o	1502		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		<pre>mtx_inv3x3_32x32, mtx_inv3x3_32x32_getScratchSize</pre>			
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,			
mtx_mpy16x16_fast_hifi4.o	473 2146		mtx mpy16x16_fast_getScratchSize mtx mpy16x16, mtx mpy16x16 getScratchSize			
mex_mpyroxro_niii4.0	2140		mtx mpy10x10, mtx mpy10x10_get3t1att1312e			
mtx_mpy32x32_fast_hifi4.o	480		mtx_mpy32x32_fast_getScratchSize			
mtx_mpy32x32_hifi4.o	2632		<pre>mtx_mpy32x32, mtx_mpy32x32_getScratchSize</pre>			
0.16.6.4.1.614	47.6		mtx_mpy8x16_fast,			
mtx_mpy8x16_fast_hifi4.o mtx_mpy8x16_hifi4.o	476 10647		<pre>mtx mpy8x16_fast_getScratchSize mtx mpy8x16, mtx mpy8x16 getScratchSize</pre>	_		
mex_mpyox10_HIII4.0	10047		mtx mpy8x8 fast,			
mtx mpy8x8 fast hifi4.o	637		mtx mpy8x8 fast getScratchSize			
mtx_mpy8x8_hifi4.o	10732		mtx_mpy8x8, mtx_mpy8x8_getScratchSize			
			mtx_mpyt16x16_fast,			
mtx_mpyt16x16_fast_hifi4.o	617		mtx_mpyt16x16_fast_getScratchSize			
mtx_mpyt16x16_hifi4.o	1813		mtx_mpyt16x16, mtx_mpyt16x16_getScratchSize			
	400		mtx_mpyt32x32_fast,			
mtx_mpyt32x32_fast_hifi4.o mtx mpyt32x32 hifi4.o	490 1144	-	<pre>mtx mpyt32x32_fast_getScratchSize mtx mpyt32x32, mtx mpyt32x32 getScratchSize</pre>	+		
mer_mpycozkoz_niii4.0	1144		mtx mpyt32x32, mtx mpyt32x32 getscratch512e			
mtx mpyt8x16 fast hifi4.o	628		mtx_mpytox10_1ast, mtx mpyt8x16 fast getScratchSize			
mtx mpyt8x16 hifi4.o	9079	1	mtx mpyt8x16, mtx mpyt8x16 getScratchSize			
	İ		mtx_mpyt8x8_fast,			
mtx_mpyt8x8_fast_hifi4.o	525		mtx_mpyt8x8_fast_getScratchSize			
mtx_mpyt8x8_hifi4.o	11813		mtx_mpyt8x8, mtx_mpyt8x8_getScratchSize			
mtx_transpose16x16_fast_hifi4						
.0	514		mtx_transpose16x16_fast			
mtx_transpose16x16_hifi4.o	791		mtx_transpose16x16	<u> </u>		
mtx_transpose32x32_fast_hifi4	150		mty transpose 32 y 32 fact			
.o mtx transpose32x32 hifi4.o	150 244		mtx_transpose32x32_fast 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		
			<del>_</del>	_		

	Code	Data Symbols		
Object file	size	size	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 mtx_vecmpy32x32_hifi4.o	338 528		mtx_vecmpy32x32_fast 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 mtx_mpyf_fast_hifi4.o	2520 372		<pre>mtx_vecmpy8x8 mtx mpyf fast, mtx mpyf fast getScratchSize</pre>	+
mtx mpyf hifi4.o	1288		mtx mpyf, mtx mpyf getScratchSize	
			mtx_mpytf_fast,	
mtx_mpytf_fast_hifi4.o	524		mtx_mpytf_fast_getScratchSize	
mtx mpytf hifi4.o mtx vecmpyf fast hifi4.o	2725 296		<pre>mtx_mpytf, mtx_mpytf_getScratchSize mtx vecmpyf fast</pre>	+
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 vec add16x16 hifi4.o	151 514		vec_add16x16_fast	
vec_add16x16_n1114.0	118		vec_add16x16 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	269 192	-	vec_bexp32_fast vec_bexp32	+
vec_bexp32_H114.0	164		vec_bexp32 vec_dot16x16 fast	
vec_dot16x16_hifi4.o	249		vec_dot16x16	
vec_dot32x16_fast_hifi4.o	159		vec_dot32x16_fast	
vec_dot32x16_hifi4.o	236 135	8	vec_dot32x16	
vec_dot32x32_fast_hifi4.o vec_dot32x32_hifi4.o	344		vec_dot32x32_fast 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 vec dot64x64 fast hifi4.o	168 157		vec_dot64x64i 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	194 206		vec max32x32 fast	
vec_max_32x32_n1114.0	239		vec_max32x32	
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	124 185		vec_power16x16_fast vec_power16x16	+
vec_power10x10_H1114.0	104		vec_power10x10  vec_power32x32 fast	
vec_power32x32_hifi4.o	178		vec_power32x32	
vec_scale16x16_fast_hifi4.o	119		vec_scale16x16_fast	
vec_scale16x16_hifi4.o vec scale32x32 fast hifi4.o	812 114	<del>                                     </del>	vec_scale16x16 vec scale32x32 fast	
vec_scale32x32_fast_fif14.0	287	<b>†</b>	vec_scale32x32_last	1
vec_shift16x16_fast_hifi4.o	194		vec_shift16x16_fast	
vec_shift16x16_hifi4.o	1400		vec_shift16x16	
vec_shift32x32_fast_hifi4.o vec_shift32x32_hifi4.o	124 242	-	vec_shift32x32_fast vec_shift32x32	
scl bexpf hifi4.0	102		scl bexpf	1
vec_addf_hifi4.o	329		vec_addf	
vec bexpf hifi4.o	276		vec_bexpf	
vec_dotf_hifi4.o  vec maxf hifi4.o	278 153	4	vec_dotf vec maxf	+
vec_maxi_nifi4.0	165	4	vec_maxi vec minf	-
vec_powerf_hifi4.o	533	<u> </u>	vec_powerf	
vec_scalef_hifi4.o	544		vec_scalef	
vec_scale_sf_hifi4.o	314	<b></b>	vec_scale_sf	1
vec_shiftf_hifi4.o alog10f tbl.o	442	12	<pre>vec_shiftf NatureDSP Signal 206, NatureDSP Signal 207</pre>	+
alog101_tb1.0	1	8	NatureDSP Signal 208	1
atanf_tbl.o		64	NatureDSP_Signal_209, NatureDSP_Signal_210	
		<u> </u>	NatureDSP_Signal_211, NatureDSP_Signal_212,	
expf tbl.o		80	NatureDSP_Signal_213, NatureDSP_Signal_485, NatureDSP_Signal_582	
	1			<u> </u>

	Code	Data	Symbols		
Object file	size	size	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  NatureDSP_Signal_235, NatureDSP_Signal_236,	1	
nan_tbl.o		32	NatureDSP Signal 237, NatureDSP Signal 238 NatureDSP Signal 239, NatureDSP Signal 240,		
nanf_tbl.o		16	NatureDSP Signal 241, NatureDSP Signal 242 NatureDSP Signal 246, NatureDSP Signal 247,		
pif tbl.o		16	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 scl sine table16.o		136 1028			
scl sine table32.0		2056			
scl sqrt table.o		1024	NatureDSP Signal 010		
			NatureDSP Signal 250, NatureDSP Signal 251,		
sinf_tbl.o		52	NatureDSP_Signal_252, NatureDSP_Signal_253		
sqrt2f_tbl.o		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	logme132x32_alloc, logme132x32_init	NatureDSP_Signal_807, NatureDSP_Signal_809, vec_recip32x32 memset, NatureDSP_Signal_806, NatureDSP_Signal_807, scl_antilog10f, scl_antilog2f, scl_int2float,	
logmelf hifi4.o	1690		logmelf alloc, logmelf init	scl_log10f, scl_log2f, vec recip32x32	
mfcc32x32_hifi4.o	789		mfcc32x32_alloc, mfcc32x32_init	logme132x32_alloc, logme132x32_init, memset, mtx_vecmpy32x32, mtx_vecmpy32x32_fast, NatureDSP_Signal_810, NatureDSP_Signal_811 logme1f_alloc, logme1f_init, memset,	
mfccf_hifi4.o dct_16_32.o	734	168	mfccf_alloc, mfccf_init dct2_16_32	mtx_vecmpyf, mtx_vecmpyf fast, NatureDSP_Signal_812, NatureDSP_Signal_813	
dct_16_64.o			dct2_16_64		
dct_32_32.o		320			
dct_32_64.o		792		<u> </u>	
dct4_16_128.0 dct4 16 256.0		568 1112		<del> </del>	
dct4_16_256.0 dct4_16_32.0		160			
dct4_16_52.0		2200		1	
dct4 16 64.0		296			
dct4 32 128.0		1108	'		
dct4_32_256.o		2196			
dct4_32_32.o		292	dct4_32_32, mdct_32_32		
dct4_32_512.o		4372			
dct4_32_64.o		564			
dctf_32_twd.o		376			
dctf_64_twd.o		728	dct2_f_64	1	
fft cplx twd16 1024 tbl.o		4224	cfft16_1024, cifft16_1024, NatureDSP Signal 761, NatureDSP Signal 786		
fft_cplx_twd16_128_tbl.o		592			

C		Data	Symbols		
Object file	Code size	size	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		
			cfft16_16, cifft16_16, NatureDSP_Signal_759,		
fft_cplx_twd16_16_tbl.o		144	NatureDSP_Signal_784 cinfft16 160, cnfft16 160,		
fft_cplx_twd16_160_tbl.o		752	NatureDSP_Signal_758, NatureDSP_Signal_783		
fft_cplx_twd16_176_tbl.o		772	<pre>cinfft16_176, cnfft16_176, NatureDSP_Signal_945, NatureDSP_Signal_954</pre>		
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		
			cinfft16_288, cnfft16_288,		
fft_cplx_twd16_288_tbl.o		1248	NatureDSP Signal 946, NatureDSP Signal 955 cfft16_32, cifft16_32, NatureDSP Signal 753,		
fft_cplx_twd16_32_tbl.o		192	NatureDSP_Signal_778 cinfft16_320, cnfft16_320,		
fft_cplx_twd16_320_tbl.o		1376	NatureDSP_Signal_947, NatureDSP_Signal_956 cinfft16_352, cnfft16_352,		
fft_cplx_twd16_352_tbl.o fft_cplx_twd16_384_tbl.o		1492 1664	NatureDSP Signal 948, NatureDSP Signal 957 cinfft16 384, cnfft16 384		
			cfft16_4096, cifft16_4096, NatureDSP_Signal_752, NatureDSP_Signal_777		
fft_cplx_twd16_4096_tbl.o		16528	cinfft16_48, cnfft16_48,		
fft_cplx_twd16_48_tbl.o fft cplx twd16 480 tbl.o		288	NatureDSP_Signal_949, NatureDSP_Signal_958 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		
		2656	cinfft16_640, cnfft16_640,		
fft_cplx_twd16_640_tbl.o			NatureDSP_Signal_951, NatureDSP_Signal_960 cinfft16_96, cnfft16_96,		
fft_cplx_twd16_96_tbl.o		464	NatureDSP_Signal_952, NatureDSP_Signal_961	NatureDSP Signal 348,	
				NatureDSP_Signal_350, NatureDSP_Signal_352, NatureDSP Signal 358,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_370, NatureDSP Signal 372,	
fft_cplx_twd32_100_tbl.o		896	cinfft32_100, cnfft32_100	NatureDSP_Signal_379 NatureDSP_Signal_348,	
				NatureDSP_Signal_349,	
				NatureDSP_Signal_358, NatureDSP Signal 368,	
				NatureDSP_Signal_369, NatureDSP_Signal_379,	
				NatureDSP_Signal_3/9, NatureDSP_Signal_418,	
			cfft32 1024, cifft32 1024,	NatureDSP_Signal_419, NatureDSP Signal 421,	
fft_cplx_twd32_1024_tbl.o		6328	NatureDSP_Signal_279, NatureDSP_Signal_312	NatureDSP_Signal_422	
				NatureDSP_Signal_344, NatureDSP Signal 346,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_358, NatureDSP Signal 364,	
				NatureDSP_Signal_366,	
fft_cplx_twd32_108_tbl.o		1000	cinfft32_108, cnfft32_108, NatureDSP_Signal_289, NatureDSP_Signal_322	NatureDSP_Signal_368, NatureDSP_Signal_379	
				NatureDSP_Signal_345, NatureDSP Signal 349,	
				NatureDSP_Signal_356,	
			cinfft32 12, cnfft32 12,	NatureDSP_Signal_365, NatureDSP Signal 369,	
fft_cplx_twd32_12_tbl.o		176		NatureDSP_Signal_377	
				NatureDSP_Signal_342, NatureDSP_Signal_344,	
fft cplx twd32 120 tbl.o		1080	cinfft32_120, cnfft32_120, NatureDSP Signal 290, NatureDSP Signal 323	NatureDSP_Signal_348, NatureDSP Signal 352,	
TTC_CPTA_CWGJZ_TZU_CD1.0		1000	macarepor_orgnar_200, Nacarepor_orgnar_323	macurenor_orginal_ouz,	

	Code	Data Symbols		
Object file	Code size	size	Global	Referenced
				NatureDSP_Signal_358,
				NatureDSP_Signal_361,
				NatureDSP_Signal_364,
				NatureDSP_Signal_368, NatureDSP Signal 372,
				NatureDSP Signal 379
				NatureDSP Signal 341,
				NatureDSP_Signal_348,
				NatureDSP_Signal_358,
				NatureDSP_Signal_368, NatureDSP Signal 373,
				NatureDSP Signal 379,
				NatureDSP_Signal_418,
			cfft32_128, cifft32_128,	NatureDSP_Signal_419,
fft_cplx_twd32_128_tbl.o		920	NatureDSP_Signal_276, NatureDSP_Signal_309	NatureDSP_Signal_421
				NatureDSP_Signal_344, NatureDSP Signal 346,
				NatureDSP Signal 348,
				NatureDSP Signal 358,
				NatureDSP_Signal_364,
				NatureDSP_Signal_366,
				NatureDSP_Signal_368, NatureDSP Signal 379,
			cinfft32 144, cnfft32 144,	NatureDSP_Signal_3/9, NatureDSP Signal 418,
fft_cplx_twd32_144_tbl.o	<u></u>	1288	NatureDSP_Signal_291, NatureDSP_Signal_324	NatureDSP_Signal_421
				NatureDSP_Signal_348,
				NatureDSP_Signal_349,
				NatureDSP_Signal_358, NatureDSP Signal 368,
			cfft32 16, cifft32 16, NatureDSP Signal 273,	NatureDSP_Signal_360,
fft cplx twd32 16 tbl.o		208	NatureDSP Signal 306	NatureDSP Signal 379
				NatureDSP_Signal_348,
				NatureDSP_Signal_350,
				NatureDSP_Signal_358,
				NatureDSP_Signal_368, NatureDSP Signal 370,
				NatureDSP Signal 373,
			cinfft32_160, cnfft32_160,	NatureDSP_Signal_379,
fft_cplx_twd32_160_tbl.o		1352	NatureDSP_Signal_769, NatureDSP_Signal_794	NatureDSP_Signal_415
				NatureDSP_Signal_344, NatureDSP Signal 348,
				NatureDSP_Signal_340, NatureDSP Signal 352,
				NatureDSP Signal 358,
				NatureDSP_Signal_364,
				NatureDSP_Signal_368,
fft cplx twd32 180 tbl.o		1560	cinfft32_180, cnfft32_180, NatureDSP Signal 292, NatureDSP Signal 325	NatureDSP_Signal_372, NatureDSP Signal 379
TIC_CDIX_CWG32_100_CDI.0		1300	NacureDSF_Signal_292, NacureDSF_Signal_323	NatureDSP Signal 345,
				NatureDSP Signal 347,
				NatureDSP_Signal_349,
				NatureDSP_Signal_356,
				NatureDSP_Signal_365, NatureDSP Signal 367,
				NatureDSP Signal 369,
				NatureDSP_Signal_377,
551		1.004	cinfft32_192, cnfft32_192,	NatureDSP_Signal_417,
fft_cplx_twd32_192_tbl.o		1664	NatureDSP_Signal_293, NatureDSP_Signal_326	NatureDSP_Signal_420 NatureDSP Signal 342,
				NatureDSP_Signal_342, NatureDSP Signal 348,
				NatureDSP Signal 350,
				NatureDSP_Signal_352,
				NatureDSP_Signal_358,
				NatureDSP_Signal_361, NatureDSP Signal 368,
				NatureDSP_Signal_368, NatureDSP Signal 370,
				NatureDSP Signal 372,
fft_cplx_twd32_200_tbl.o		1720	cinfft32_200, cnfft32_200	NatureDSP_Signal_379
				NatureDSP_Signal_341,
				NatureDSP_Signal_348,
				NatureDSP_Signal_358, NatureDSP Signal 368,
				NatureDSP_Signal_368, NatureDSP Signal 373,
				NatureDSP_Signal_379,
				NatureDSP_Signal_418,
551 1 120 123		10400	cfft32_2048, cifft32_2048,	NatureDSP_Signal_419,
fft_cplx_twd32_2048_tbl.o		12488	NatureDSP_Signal_280, NatureDSP_Signal_313 cinfft32 216, cnfft32 216,	NatureDSP_Signal_421 NatureDSP Signal 341,
fft cplx twd32 216 tbl.o		1896	NatureDSP_Signal_294, NatureDSP_Signal_327	NatureDSP_Signal_341,
	L	1000		

	Codo	Data	Symbols		
Object file	Code size	Data size	Global	Referenced	
				NatureDSP Signal 348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_363,	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_379 NatureDSP_Signal_341,	
				NatureDSP_Signal_341,	
				NatureDSP Signal 347,	
				NatureDSP Signal 356,	
				NatureDSP Signal 365,	
			cinfft32_24, cnfft32_24,	NatureDSP_Signal_373,	
fft_cplx_twd32_24_tbl.o		304	NatureDSP_Signal_283, NatureDSP_Signal_316	NatureDSP_Signal_377	
				NatureDSP_Signal_345,	
				NatureDSP_Signal_347,	
				NatureDSP_Signal_352, NatureDSP Signal 356,	
				NatureDSP Signal 365,	
				NatureDSP Signal 367,	
				NatureDSP Signal 372,	
				NatureDSP_Signal_377,	
			cinfft32_240, cnfft32_240,	NatureDSP_Signal_417,	
fft_cplx_twd32_240_tbl.o		2040	NatureDSP_Signal_295, NatureDSP_Signal_328	NatureDSP_Signal_420	
		1		NatureDSP_Signal_348,	
		1		NatureDSP_Signal_349, NatureDSP Signal 358,	
				NatureDSP_Signal_358, NatureDSP Signal 368,	
				NatureDSP Signal 369,	
				NatureDSP Signal 379,	
				NatureDSP_Signal_418,	
				NatureDSP_Signal_419,	
			cfft32_256, cifft32_256,	NatureDSP_Signal_421,	
fft_cplx_twd32_256_tbl.o		1696	NatureDSP_Signal_277, NatureDSP_Signal_310	NatureDSP_Signal_422	
				NatureDSP_Signal_342,	
				NatureDSP_Signal_344, NatureDSP Signal 346,	
				NatureDSP Signal 348,	
				NatureDSP Signal 358,	
				NatureDSP Signal 361,	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_366,	
				NatureDSP_Signal_368,	
			ainff+22 200 anff+22 200	NatureDSP_Signal_379,	
fft cplx twd32 288 tbl.o		2464	cinfft32_288, cnfft32_288, NatureDSP Signal 296, NatureDSP Signal 329	NatureDSP_Signal_418, NatureDSP Signal 421	
TIC_CPIX_CWG3Z_Z00_CDI:0		2101	Nacureboi_bignai_250, Nacureboi_bignai_525	NatureDSP Signal 345,	
				NatureDSP Signal 347,	
		1		NatureDSP_Signal_350,	
				NatureDSP_Signal_352,	
		1		NatureDSP_Signal_356,	
				NatureDSP_Signal_365,	
		1		NatureDSP_Signal_367, NatureDSP Signal 370,	
			cinfft32 300, cnfft32 300,	NatureDSP Signal 372,	
fft cplx twd32 300 tbl.o		2520	NatureDSP Signal 297, NatureDSP Signal 330	NatureDSP Signal 377	
_ *				NatureDSP_Signal_341,	
				NatureDSP_Signal_348,	
		1		NatureDSP_Signal_358,	
				NatureDSP_Signal_368,	
		1	aff+20 20 aiff+20 20 N-+	NatureDSP_Signal_373,	
fft cplx twd32 32 tbl.o		320	cfft32_32, cifft32_32, NatureDSP_Signal_274, NatureDSP Signal 307	NatureDSP_Signal_379, NatureDSP Signal 419	
110_cp1A_cw0J2_J2_CD1.0	1	240	nacarepor_orginar_JU/	NatureDSP_Signal_419	
				NatureDSP Signal 349,	
		1		NatureDSP Signal 351,	
				NatureDSP_Signal_360,	
				NatureDSP_Signal_367,	
		1		NatureDSP_Signal_369,	
				NatureDSP_Signal_371,	
		1		NatureDSP_Signal_381,	
fft cplx twd32 320 tbl.o		2688	cinfft32 320, cnfft32 320	NatureDSP_Signal_417, NatureDSP Signal 420	
	1	2000	51111652_520/ SHI1652_520	NatureDSP Signal 344,	
		1		NatureDSP Signal 346,	
				NatureDSP Signal 348,	
İ	1	Ī		NatureDSP Signal 358,	
				Naturepor Signal 330,	
fft cplx twd32 324 tbl.o		2752	cinfft32_324, cnfft32_324, NatureDSP Signal 298, NatureDSP Signal 331	NatureDSP_Signal_364, NatureDSP_Signal_366,	

	Code Dote		Symbols		
Object file	Code size	Data size	Global	Referenced	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_379 NatureDSP Signal 344,	
				NatureDSP Signal 346,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_364, NatureDSP Signal 366,	
			cinfft32 36, cnfft32 36,	NatureDSP Signal 368,	
fft_cplx_twd32_36_tbl.o		400	NatureDSP Signal 284, NatureDSP Signal 317	NatureDSP_Signal_379	
				NatureDSP_Signal_343, NatureDSP Signal 344,	
				NatureDSP Signal 352,	
				NatureDSP_Signal_354,	
				NatureDSP_Signal_362,	
				NatureDSP_Signal_364, NatureDSP Signal 372,	
				NatureDSP Signal 375,	
			cinfft32_360, cnfft32_360,	NatureDSP_Signal_417,	
fft_cplx_twd32_360_tbl.o		3024	NatureDSP_Signal_299, NatureDSP_Signal_332	NatureDSP_Signal_420	
				NatureDSP_Signal_344, NatureDSP Signal 348,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_373, NatureDSP Signal 379,	
				NatureDSP_Signal_415,	
				NatureDSP_Signal_418,	
fft_cplx_twd32_384_tbl.o	1	3168	cinfft32_384, cnfft32_384	NatureDSP_Signal_421 NatureDSP Signal 348,	
				NatureDSP_Signal_348, NatureDSP Signal 350,	
				NatureDSP_Signal_352,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_368, NatureDSP Signal 370,	
				NatureDSP Signal 372,	
				NatureDSP_Signal_379,	
66t1 t122 400 th1 -		3320	-:	NatureDSP_Signal_418,	
fft_cplx_twd32_400_tbl.o		3320	cinfft32_400, cnfft32_400	NatureDSP_Signal_421 NatureDSP Signal 348,	
				NatureDSP_Signal_349,	
				NatureDSP_Signal_358,	
				NatureDSP_Signal_368, NatureDSP Signal 369,	
				NatureDSP Signal 379,	
				NatureDSP_Signal_418,	
			-55122 4000 -:55122 4000	NatureDSP_Signal_419,	
fft cplx twd32 4096 tbl.o		24784	cfft32_4096, cifft32_4096, NatureDSP Signal 281, NatureDSP Signal 314	NatureDSP_Signal_421, NatureDSP Signal 422	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_346,	
				NatureDSP_Signal_348, NatureDSP Signal 358,	
				NatureDSP_Signal_358, NatureDSP Signal 364,	
				NatureDSP_Signal_366,	
				NatureDSP_Signal_368,	
			cinfft32 432, cnfft32 432,	NatureDSP_Signal_379, NatureDSP Signal 418,	
fft_cplx_twd32_432_tbl.o		3616	NatureDSP_Signal_300, NatureDSP_Signal_333	NatureDSP_Signal_421	
				NatureDSP_Signal_346,	
				NatureDSP_Signal_348, NatureDSP Signal 358,	
				NatureDSP_Signal_358, NatureDSP Signal 366,	
				NatureDSP_Signal_368,	
				NatureDSP_Signal_379,	
fft cplx twd32 48 tbl.o		496	cinfft32_48, cnfft32_48, NatureDSP Signal 285, NatureDSP Signal 318	NatureDSP_Signal_418, NatureDSP Signal 421	
	1	170		NatureDSP Signal 342,	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_348,	
				NatureDSP_Signal_352, NatureDSP Signal 358,	
				NatureDSP_Signal_356,	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_368,	
fft cplx twd32 480 tbl.o		3984	cinfft32_480, cnfft32_480, NatureDSP Signal 301, NatureDSP Signal 334	NatureDSP_Signal_372, NatureDSP Signal 379,	
110_cb1v_c4005_400_c01.0	1	J J U T		1.0001001_019101_0/0/	

		<b>.</b> .	Symbols	
Object file	Code size	Data size	Global	Referenced
				NatureDSP_Signal_418,
				NatureDSP_Signal_421
				NatureDSP_Signal_341, NatureDSP Signal 348,
				NatureDSP_Signal_358,
				NatureDSP_Signal_368,
				NatureDSP_Signal_373, NatureDSP Signal 379,
				NatureDSP_Signal_418,
fft cplx twd32 512 tbl.o		3248	cfft32_512, cifft32_512, NatureDSP Signal 278, NatureDSP Signal 311	NatureDSP_Signal_419, NatureDSP Signal 421
TIC_CPIX_CWGSZ_SIZ_CDI.O		3210	Nacarebor_bignar_2/0/ Nacarebor_bignar_5ii	NatureDSP Signal 344,
				NatureDSP_Signal_348,
				NatureDSP_Signal_352, NatureDSP Signal 358,
				NatureDSP_Signal_364,
				NatureDSP_Signal_368,
fft cplx twd32 540 tbl.o		4464	cinfft32_540, cnfft32_540, NatureDSP Signal 302, NatureDSP Signal 335	NatureDSP_Signal_372, NatureDSP Signal 379
		1		NatureDSP_Signal_344,
				NatureDSP_Signal_346,
				NatureDSP_Signal_348, NatureDSP Signal 358,
				NatureDSP_Signal_364,
				NatureDSP_Signal_366, NatureDSP Signal 368,
				NatureDSP_Signal_300,
			cinfft32_576, cnfft32_576,	NatureDSP_Signal_418,
fft_cplx_twd32_576_tbl.o		4768	NatureDSP_Signal_303, NatureDSP_Signal_336	NatureDSP_Signal_421 NatureDSP Signal 344,
				NatureDSP_Signal_344,
				NatureDSP_Signal_352,
				NatureDSP_Signal_358, NatureDSP Signal 364,
				NatureDSP Signal 368,
			cinfft32_60, cnfft32_60,	NatureDSP_Signal_372,
fft_cplx_twd32_60_tbl.o		576	NatureDSP_Signal_286, NatureDSP_Signal_319	NatureDSP_Signal_379 NatureDSP Signal 345,
				NatureDSP_Signal_350,
				NatureDSP_Signal_356,
				NatureDSP_Signal_365, NatureDSP Signal 370,
				NatureDSP_Signal_373,
fft cplx twd32 600 tbl.o		4896	cinfft32 600, cnfft32 600	NatureDSP_Signal_377, NatureDSP Signal 415
TIT_CPIX_twd32_000_tb1.0		4030	cinitesz_ooo, chitesz_ooo	NatureDSP Signal 348,
				NatureDSP_Signal_349,
				NatureDSP_Signal_358, NatureDSP Signal 368,
				NatureDSP_Signal_369,
			551.00 64 1.551.00 64 14 1 1 1 1 1 1 1 1 1 1	NatureDSP_Signal_379,
fft cplx twd32 64 tbl.o		520	cfft32_64, cifft32_64, NatureDSP_Signal_275, NatureDSP Signal 308	NatureDSP_Signal_419, NatureDSP Signal 422
			<u> y</u>	NatureDSP_Signal_341,
				NatureDSP_Signal_344, NatureDSP Signal 348,
				NatureDSP_Signal_348, NatureDSP Signal 358,
				NatureDSP_Signal_363,
			cinfft32 72, cnfft32 72,	NatureDSP_Signal_364, NatureDSP Signal 368,
fft_cplx_twd32_72_tbl.o		720	NatureDSP_Signal_287, NatureDSP_Signal_320	NatureDSP_Signal_379
				NatureDSP_Signal_346,
				NatureDSP_Signal_348, NatureDSP Signal 358,
				NatureDSP_Signal_366,
				NatureDSP_Signal_368,
			cinfft32 768, cnfft32 768,	NatureDSP_Signal_379, NatureDSP Signal 418,
fft_cplx_twd32_768_tbl.o	1	6304	NatureDSP_Signal_304, NatureDSP_Signal_337	NatureDSP_Signal_421
				NatureDSP_Signal_348,
				NatureDSP_Signal_352, NatureDSP Signal 358,
				NatureDSP_Signal_368,
				NatureDSP_Signal_372,
			cinfft32 80, cnfft32 80,	NatureDSP_Signal_379, NatureDSP Signal 418,
fft_cplx_twd32_80_tbl.o	1	736	NatureDSP_Signal_762, NatureDSP_Signal_787	NatureDSP_Signal_421
fft_cplx_twd32_96_tbl.o		904	cinfft32_96, cnfft32_96,	NatureDSP_Signal_342,

	Code Deta		Symbols		
Object file	Code size		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_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_418,	
			cinfft32x16_160, cnfft32x16_160,	Nacurebor_Signar_421	
fft_cplx_twd32x16_160_tbl.o		744	NatureDSP_Signal_774, NatureDSP_Signal_799 cinfft32x16_192, cnfft32x16_192,		
fft_cplx_twd32x16_192_tbl.o		912	NatureDSP Signal 773, NatureDSP Signal 798 cinfft32x16 240, cnfft32x16 240,		
fft_cplx_twd32x16_240_tbl.o fft_cplx_twd32x16_320_tbl.o		1104 1424	NatureDSP Signal 772, NatureDSP Signal 797 cinfft32x16 320, cnfft32x16 320		
fft cplx twd32x16_326_tb1.0		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		560 576	rinfft16_144, rnfft16_144 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		
551		0070	.55116.0040	NatureDSP_Signal_761,	
fft_real_twd16_2048_tbl.o fft real_twd16_240_tbl.o		2072 848	rfft16_2048, rifft16_2048 rinfft16_240, rnfft16_240	NatureDSP_Signal_786	
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_366, NatureDSP_Signal_375	

	Codo	Dete	Symbols		
Object file	Code size	Data size	Global	Referenced	
551		2220		NatureDSP_Signal_303,	
fft_real_twd32_1152_tbl.o		2328	rinfft32_1152, rnfft32_1152	NatureDSP_Signal_336 NatureDSP_Signal_341,	
				NatureDSP Signal 345,	
				NatureDSP_Signal_356,	
				NatureDSP_Signal_363, NatureDSP Signal 365,	
fft real twd32 12 tbl.o		184	rinfft32 12, rnfft32 12	NatureDSP_Signal_305,	
				NatureDSP Signal 286,	
fft_real_twd32_120_tbl.o		264	rinfft32_120, rnfft32_120	NatureDSP Signal 319 NatureDSP Signal 275,	
fft_real_twd32_128_tbl.o		280	rfft32_128, rifft32_128	NatureDSP_Signal_308	
fft real twd32 144 tbl.o		312	rinfft32 144, rnfft32 144	NatureDSP_Signal_287, NatureDSP Signal 320	
TITE_TEAT_CWASZ_TITE_CDI.O		312	TIMITOSZ_TTT, TMTTCSZ_TTT	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 real twd32 1440 tbl.o		8800	rinfft32 1440, rnfft32 1440	NatureDSP_Signal_418, NatureDSP Signal 421	
110_1ea1_cwd32_1440_cb1.0		0000	111111111111111111111111111111111111111	NatureDSP_Signal_304,	
fft_real_twd32_1536_tbl.o		3096	rinfft32_1536, rnfft32_1536	NatureDSP Signal 337 NatureDSP Signal 762,	
fft real twd32 160 tbl.o		344	rinfft32 160, rnfft32 160	NatureDSP_Signal_782, NatureDSP Signal 787	
				NatureDSP_Signal_343,	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_352, NatureDSP Signal 354,	
				NatureDSP Signal 362,	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_372,	
fft_real_twd32_180_tbl.o		1216	rinfft32_180, rnfft32_180	NatureDSP_Signal_375 NatureDSP_Signal_288,	
fft_real_twd32_192_tbl.o		408	rinfft32_192, rnfft32_192	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	
			-	NatureDSP_Signal_289,	
fft_real_twd32_216_tbl.o		456	rinfft32_216, rnfft32_216	NatureDSP_Signal_322 NatureDSP_Signal_282,	
fft_real_twd32_24_tbl.o		72	rinfft32_24, rnfft32_24	NatureDSP Signal 315	
£££		504		NatureDSP_Signal_290, NatureDSP_Signal_323	
fft_real_twd32_240_tbl.o		304	rinfft32_240, rnfft32_240	NatureDSP_Signal_323	
fft_real_twd32_256_tbl.o		536	rfft32_256, rifft32_256	NatureDSP_Signal_309	
fft real twd32 288 tbl.o		600	rinfft32 288, rnfft32 288	NatureDSP_Signal_291, NatureDSP Signal 324	
IIL_fear_twd32_200_tb1.0		600	111111111111111111111111111111111111111	NatureDSP_Signal_324	
				NatureDSP Signal 352,	
				NatureDSP_Signal_356,	
				NatureDSP_Signal_365, NatureDSP Signal 372,	
fft real twd32 30 tbl.o		272	rinfft32 30, rnfft32 30	NatureDSP_Signal_372, NatureDSP Signal 377	
			_ : _ :	NatureDSP_Signal_343,	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_350, NatureDSP Signal 352,	
				NatureDSP_Signal_352,	
				NatureDSP_Signal_362,	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_370, NatureDSP Signal 372,	
fft_real_twd32_300_tbl.o		1936	rinfft32_300, rnfft32_300	NatureDSP_Signal_375	
fft mool +		0.0		NatureDSP_Signal_273,	
fft_real_twd32_32_tbl.o		88	rfft32_32, rifft32_32	NatureDSP_Signal_306 NatureDSP_Signal_769,	
fft_real_twd32_320_tbl.o		664	rinfft32_320, rnfft32_320	NatureDSP_Signal_794	
				NatureDSP_Signal_343, NatureDSP Signal 344,	
				NatureDSP_Signal_344, NatureDSP Signal 346,	
				NatureDSP_Signal_354,	
fft real twd32 324 tbl.o	- 1	2120	rinfft32_324, rnfft32_324	NatureDSP_Signal_362,	

	Code	Data	Symbols		
Object file	size	Data size	Global	Referenced	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_366, NatureDSP Signal 375	
				NatureDSP_Signal_342,	
				NatureDSP_Signal_345, NatureDSP Signal 346,	
				NatureDSP_Signal_356,	
				NatureDSP_Signal_361, NatureDSP Signal 365,	
55t1 tod22 26 th1 -		344		NatureDSP_Signal_366,	
fft_real_twd32_36_tbl.o		344	rinfft32_36, rnfft32_36	NatureDSP_Signal_377 NatureDSP Signal 292,	
fft_real_twd32_360_tbl.o		744	rinfft32_360, rnfft32_360	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	
				NatureDSP_Signal_294,	
fft_real_twd32_432_tbl.o		888	rinfft32_432, rnfft32_432	NatureDSP_Signal_327 NatureDSP_Signal_283,	
fft_real_twd32_48_tbl.o		120	rinfft32_48, rnfft32_48	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	
				NatureDSP_Signal_343,	
				NatureDSP_Signal_344, NatureDSP Signal 352,	
				NatureDSP_Signal_354,	
				NatureDSP_Signal_362, NatureDSP_Signal_364,	
55.		2400		NatureDSP_Signal_372,	
fft_real_twd32_540_tbl.o		3400	rinfft32_540, rnfft32_540	NatureDSP_Signal_375 NatureDSP Signal 296,	
fft_real_twd32_576_tbl.o		1176	rinfft32_576, rnfft32_576	NatureDSP_Signal_329 NatureDSP_Signal_343,	
				NatureDSP_Signal_344,	
				NatureDSP_Signal_352, NatureDSP Signal 354,	
				NatureDSP_Signal_362,	
				NatureDSP_Signal_364, NatureDSP_Signal_372,	
fft_real_twd32_60_tbl.o		472	rinfft32_60, rnfft32_60	NatureDSP_Signal_375	
fft real twd32 64 tbl.o		152	rfft32 64, rifft32 64	NatureDSP_Signal_274, NatureDSP Signal 307	
		1.00		NatureDSP_Signal_284,	
fft_real_twd32_72_tbl.o		168	rinfft32_72, rnfft32_72	NatureDSP_Signal_317 NatureDSP Signal 299,	
fft_real_twd32_720_tbl.o		1464	rinfft32_720, rnfft32_720	NatureDSP_Signal_332 NatureDSP_Signal_342,	
				NatureDSP_Signal_342,	
				NatureDSP_Signal_348, NatureDSP_Signal_358,	
				NatureDSP_Signal_358, NatureDSP_Signal_361,	
				NatureDSP_Signal_366, NatureDSP Signal 368,	
				NatureDSP_Signal_379,	
fft real twd32 768 tbl.o		4784	rinfft32 768, rnfft32 768	NatureDSP_Signal_418, NatureDSP Signal 421	
				NatureDSP_Signal_281,	
fft_real_twd32_8192_tbl.o		16408	rfft32_8192, rifft32_8192	NatureDSP_Signal_314 NatureDSP Signal 344,	
				NatureDSP_Signal_345,	
				NatureDSP_Signal_352, NatureDSP Signal 356,	
				NatureDSP_Signal_364,	
				NatureDSP_Signal_365, NatureDSP_Signal_372,	
fft_real_twd32_90_tbl.o		656	rinfft32_90, rnfft32_90	NatureDSP_Signal_377 NatureDSP_Signal_285,	
fft_real_twd32_96_tbl.o		216	rinfft32_96, rnfft32_96	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	_ '		
fft_real_twd32x16_192_tbl.o fft real_twd32x16_240_tbl.o		696 840	rinfft32x16_192, rnfft32x16_192 rinfft32x16_240, rnfft32x16_240		
fft real_twd32x16_320_tbl.o		344	rinfft32x16_320, rnfft32x16_320	NatureDSP_Signal_774,	

	0.4.	Data size	Symbols			
Object file	Code size		Global	Referenced		
				NatureDSP Signal 799		
				NatureDSP_Signal_773,		
fft_real_twd32x16_384_tbl.o		408	rinfft32x16_384, rnfft32x16_384	NatureDSP_Signal_798		
fft real twd32x16 480 tbl.o		504	rinfft32x16 480, rnfft32x16 480	NatureDSP_Signal_772, NatureDSP Signal 797		
cubic kernel hifi4.0	489	16	NatureDSP Signal 845	NatureDSF_Signal_/9/		
divide q31 hifi4.o	470	10	NatureDSP Signal 846, NatureDSP Signal 926			
				NatureDSP_Signal_845,		
			<pre>img_getCoef_dn_cubic_init,</pre>	NatureDSP_Signal_846,		
img_getCoef_dn_cubic_hifi4.o	1177		NatureDSP_Signal_853	NatureDSP_Signal_926		
img getCoef dn hifi4.o	941		img getCoef dn init, NatureDSP Signal 852	NatureDSP_Signal_846, NatureDSP Signal 926		
img_getcoer_an_niii4.0	941		img_getcoei_dn_init, NatureDSF_Signai_632	NatureDSP Signal 845,		
			img getCoef up cubic init,	NatureDSP Signal 846,		
img_getCoef_up_cubic_hifi4.o	1177		NatureDSP_Signal_855	NatureDSP_Signal_926		
img_getCoef_up_hifi4.o	554		<pre>img_getCoef_up_init, NatureDSP_Signal_854</pre>	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	1		
imgconvert yuvrqb hifi4.o	1789		imgconvert yuvrgb			
imgconvert yuvrgb16 hifi4.o	1171		imgconvert yuvrgb16			
imgcopy_api_gu8_temp_hifi4.o	272	8	NatureDSP_Signal_876			
<pre>imgcopy_api_gs8_temp_hifi4.o</pre>	324	8	NatureDSP_Signal_1036			
<pre>imgcopy_api_gs16_temp_hifi4.o</pre>	356	8	NatureDSP_Signal_874			
imgcopy_api_gs16fast_temp_hif	001		N			
i4.0	201	8	NatureDSP_Signal_875			
imgcopy_api_gu8fast_temp_hifi 4.0	123	8	NatureDSP Signal 877			
imgcopy api gs8fast temp hifi	123	0	NacureDSI_Signar_077			
4.0	166	8	NatureDSP Signal 1037			
imgcopy_api_temp_gu8_hifi4.o	655	8	NatureDSP_Signal_878			
<pre>imgcopy_api_temp_gs8_hifi4.o</pre>	464	8	NatureDSP_Signal_1038			
imgcopy_api_temp_gs16_hifi4.o	276	8	NatureDSP_Signal_879			
imgcopy_api_temp_gs16fast_hif	200		Web as BOD O's as 1,000			
i4.o imgcopy api temp gu8fast hifi	399	8	NatureDSP_Signal_880			
4.0	1057	8	NatureDSP Signal 881			
imgcopy api temp gs8fast hifi						
4.0	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			
<pre>imgcopyLeftRightBorders_gu8_h ifi4.o</pre>	654		NatureDSP Signal 868			
imgcopyLeftRightBorders gs8 h	034		NatureDSF_Signar_000			
ifi4.0	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	117		NatureDSP Signal 1034	NatureDSP Signal 870		
imgcopyUpBtmBorders gs16 hifi	11/		Nacareboi_bighai_1004	Macurebor_Signar_070		
4.0	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 imgfastconvert rgbyuv16 hifi4	2792		imgfastconvert_rgbyuv			
.o	1472		imgfastconvert rgbyuv16			
imgfastconvert yuvrqb hifi4.o	1353		imgfastconvert_rgbyuvro			
imgfastconvert_yuvrgb16 hifi4	1000					
.0	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	l	imgfastinterleave	1		

	Codo	Data	Symbols		
Object file	Code size	size	Global	Referenced	
imgfastinterleave16_hifi4.o	662		imgfastinterleave16		
imgfastnorm_gu8_hifi4.o	2235		imgfastnorm_gu8		
imgfastnorm_gu8_nonlinear_hif					
i4.0	2352		imgfastnorm_gu8_nonlinear		
imgfastnorm_gs8_hifi4.o	2199		imgfastnorm_gs8		
imgfastnorm_gs8_nonlinear_hif i4.o	1874		imgfastnorm gs8 nonlinear		
imgfastnorm gs16 hifi4.o	1490		imgfastnorm gs16	NatureDSP Signal 846	
imgfastnorm gs16 nonlinear hi	1100			nacarosor_orgnar_ore	
fi4.o	1147		imgfastnorm_gs16_nonlinear		
			imgfastpad gu8,	NatureDSP_Signal_866, NatureDSP_Signal_868, NatureDSP_Signal_870, NatureDSP_Signal_872, NatureDSP_Signal_889, NatureDSP_Signal_889,	
imgfastpad gu8 hifi4.o	44	28	imgfastpad gu8 getScratchSize	NatureDSP Signal 916	
imgfastpad gs8 hifi4.o	44	28	<pre>imgfastpad_gs8, imgfastpad gs8 getScratchSize</pre>	NatureDSP_Signal_1032, NatureDSP_Signal_1033, NatureDSP_Signal_1034, NatureDSP_Signal_1035, NatureDSP_Signal_1047, NatureDSP_Signal_889, NatureDSP_Signal_889,	
Imgravepau_goo_nzzz		20	imgfastpad gs16,	NatureDSP_Signal_867, NatureDSP_Signal_869, NatureDSP_Signal_871, NatureDSP_Signal_873, NatureDSP_Signal_889, NatureDSP_Signal_889,	
imgfastpad gs16 hifi4.o	44	28	imgfastpad_gs10, imgfastpad gs16 getScratchSize	NatureDSP Signal 917	
imgfastresize gu8_hifi4.o	87		<pre>imgfastresize_gu8_alloc, imgfastresize_gu8_getScratchSize, imgfastresize_gu8_init, imgfastresize_gu8_process</pre>	NatureDSP_Signal_877, NatureDSP_Signal_881, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_894	
imgfastresize gs8 hifi4.o	87		<pre>imgfastresize_gs8_alloc, imgfastresize_gs8_getScratchSize, imgfastresize_gs8_init, imgfastresize_gs8_process</pre>	NatureDSP_Signal_1037, NatureDSP_Signal_1039, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_894	
imgfastresize gs16 hifi4.o	87 1428		<pre>imgfastresize_gs16_alloc, imgfastresize_gs16_getScratchSize, imgfastresize_gs16_init, imgfastresize_gs16_process imghist_gs16</pre>	NatureDSP_Signal_875, NatureDSP_Signal_880, NatureDSP_Signal_891, NatureDSP_Signal_892, NatureDSP_Signal_894, NatureDSP_Signal_895	
imginterleave hifi4.0	298		imgnist_gs16		
imginterleave16 hifi4.0	438		imginterleave	+	
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	
<pre>imgnorm_gs16_nonlinear_hifi4. o</pre>	1174		imgnorm_gs16_nonlinear		
				NatureDSP_Signal_866, NatureDSP_Signal_868, NatureDSP_Signal_870, NatureDSP_Signal_872, NatureDSP_Signal_889, NatureDSP_Signal_889,	
imgpad_gu8_hifi4.o	44	28	imgpad_gu8, imgpad_gu8_getScratchSize	NatureDSP_Signal_890, NatureDSP_Signal_916 NatureDSP_Signal_1032,	
imanad ask hifi/ o	4.4	20	imanad ask imanad ask astSaratahSisa	NatureDSP_Signal_1033, NatureDSP_Signal_1034, NatureDSP_Signal_1035, NatureDSP_Signal_1047, NatureDSP_Signal_889,	
imgpad_gs8_hifi4.o	44	28	imgpad_gs8, imgpad_gs8_getScratchSize	NatureDSP_Signal_890 NatureDSP_Signal_867, NatureDSP_Signal_869,	
imgpad_gs16_hifi4.o	44	28	imgpad_gs16, imgpad_gs16_getScratchSize	NatureDSP_Signal_871, NatureDSP_Signal_873,	

	Codo	Data size	Symbols			
Object file	Code size		Global	Referenced		
				NatureDSP_Signal_889,		
				NatureDSP_Signal_890, NatureDSP Signal 917		
imgpad_process_hifi4.o	777		NatureDSP_Signal_889, NatureDSP_Signal_890	Nacarebor_bignar_or,		
				NatureDSP_Signal_876, NatureDSP Signal 878,		
				NatureDSP_Signal_070,		
			imgresize_gu8_alloc,	NatureDSP_Signal_892,		
imgresize qu8 hifi4.o	87		<pre>imgresize_gu8_getScratchSize, imgresize gu8 init, imgresize gu8 process</pre>	NatureDSP_Signal_894, NatureDSP Signal 895		
imgrebize_guo_niii.e	0,		imgresize_guo_init/ imgresize_guo_process	NatureDSP_Signal_1036,		
				NatureDSP_Signal_1038,		
			imgresize gs8 alloc,	NatureDSP_Signal_891, NatureDSP Signal 892,		
			imgresize_gs8_getScratchSize,	NatureDSP_Signal_894,		
imgresize_gs8_hifi4.o	87		imgresize_gs8_init, imgresize_gs8_process	NatureDSP_Signal_895		
				NatureDSP_Signal_874, NatureDSP Signal 879,		
				NatureDSP_Signal_891,		
			<pre>imgresize_gs16_alloc, imgresize gs16 getScratchSize,</pre>	NatureDSP_Signal_892, NatureDSP Signal 894,		
imgresize gs16 hifi4.o	87		imgresize_gs16_get5Cratch51ze, imgresize_gs16_init, imgresize_gs16_process	NatureDSP_Signal_894, NatureDSP Signal 895		
				NatureDSP_Signal_897,		
				NatureDSP_Signal_899, NatureDSP Signal 901,		
				NatureDSP_Signal_903,		
				NatureDSP_Signal_907,		
				NatureDSP_Signal_909, NatureDSP Signal 911,		
imgresizer bicubic hifi4.o	1019	36	imgresize method bicubic	NatureDSP Signal 913		
				NatureDSP_Signal_896,		
				NatureDSP_Signal_898, NatureDSP Signal 900,		
				NatureDSP Signal 902,		
				NatureDSP_Signal_906,		
				NatureDSP_Signal_908, NatureDSP Signal 910,		
imgresizer bilinear hifi4.o	1019	36	imgresize method bilinear	NatureDSP Signal 912		
<pre>imgresizer_dn2xh_cubic_hifi4.</pre>		4.4	No. 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
o imgresizer dn2xh hifi4.o	577 410	44 36	NatureDSP_Signal_897 NatureDSP Signal 896			
imgresizer_dn2xv_cubic_hifi4.						
o imgresizer dn2xv hifi4.o	574 460	28	NatureDSP_Signal_899 NatureDSP Signal 898	_		
Imgresizer_dnzxv_niii4.0	400	20	NatureDSF_Signal_090	img getCoef dn cubic in		
				it,		
imgresizer_dnxh_cubic_hifi4.o	1730	20	NatureDSP_Signal_901	NatureDSP_Signal_853 img getCoef dn init,		
imgresizer dnxh hifi4.o	1622	20	NatureDSP Signal 900	NatureDSP Signal 852		
				img_getCoef_dn_cubic_in		
imgresizer dnxv cubic hifi4.o	796	20	NatureDSP Signal 903	it, NatureDSP Signal 853		
Imgresizer_dnxv_cubic_niii4.0	790	20	NatureDSr_Signar_903	img getCoef dn init,		
imgresizer_dnxv_hifi4.o	881	20	NatureDSP_Signal_902	NatureDSP Signal 852		
imgresizer nearest hifi4.o	266	36	imarcaiga mathad nagreat	NatureDSP_Signal_904, NatureDSP Signal 905		
imgresizer nh hifi4.o	13185	20	imgresize_method_nearest NatureDSP Signal 904	NatureDSP_Signal_905		
imgresizer_nv_hifi4.o	2763	20	NatureDSP_Signal_905			
<pre>imgresizer_up2xh_cubic_hifi4.</pre>		0.0	Natura DCD Circul 007			
o imgresizer up2xh hifi4.o	664 371	28	NatureDSP_Signal_907 NatureDSP_Signal_906	+		
imgresizer_up2xv_cubic_hifi4.	0,1	1 23				
	704	28	NatureDSP_Signal_909			
imgresizer_up2xv_hifi4.o	314	20	NatureDSP_Signal_908	img getCoef up cubic in		
				it,		
<pre>imgresizer_upxh_cubic_hifi4.o</pre>	1599	20	NatureDSP_Signal_911	NatureDSP_Signal_855		
imgresizer upxh hifi4.o	1355	20	NaturaDSP Signal 910	<pre>img_getCoef_up_init, NatureDSP Signal 854</pre>		
Imgresizer_upxii_HIIII4.0	1333	20	NatureDSP_Signal_910	img getCoef up cubic in		
				it,		
<pre>imgresizer_upxv_cubic_hifi4.o</pre>	915	20	NatureDSP_Signal_913	NatureDSP_Signal_855		
imgresizer upxv hifi4.o	1078	20	NatureDSP Signal 912	<pre>img_getCoef_up_init, NatureDSP Signal 854</pre>		
imgsubcopy gu8 hifi4.o imgsubcopy gs8 hifi4.o	530 29		NatureDSP Signal 916 NatureDSP Signal 1047	NatureDSP Signal 916		

	Code Deta	Symbols			
Object file	Code size	Data size	Global	Referenced	
imgsubcopy_gs16_hifi4.o	653		NatureDSP_Signal_917		
				cfft16_1024, cfft16_128, cfft16_2048, cfft16_2048, cfft16_256, cfft16_512, cfft16_64, cnfft16_144, cnfft16_176, cnfft16_240, cnfft16_288, cnfft16_320, cnfft16_382, cnfft16_384, cnfft16_480, cnfft16_576, cnfft16_640, cnfft16_640, cnfft16_640, fft_cplx16x16, fft_real16x16, fft_real10x16, rfft16_128, rfft16_204, rfft16_256, rfft16_512, rfft16_576, rnfft16_76, rnfft16_176, rnfft16_176, rnfft16_176, rnfft16_1288,	
				rnfft16_320, rnfft16_352, rnfft16_384, rnfft16_480,	
imgfft_common_hifi4.o	2486		NatureDSP_Signal_930, NatureDSP_Signal_932	rnfft16_576, rnfft16_640, rnfft16_96 NatureDSP Signal 930,	
imgfft_gu8_hifi4.o	227		imgfft_gu8, imgfft_gu8_getScratchSize	NatureDSP_Signal_932 NatureDSP Signal 930,	
imgfft_gs8_hifi4.o	352		imgfft_gs8, imgfft_gs8_getScratchSize	NatureDSP_Signal_932  NatureDSP Signal 930,	
imgfft_gs16_hifi4.o	183		<pre>imgfft_gs16, imgfft_gs16_getScratchSize</pre>	NatureDSP_Signal_932 cifft16 1024,	
imaifft common hifi/ o	1425		MaturaDSD Signal 931 MaturaDSD Signal 933	cifft16_128, cifft16_2048, cifft16_256, cifft16_512, cifft16_64, cinfft16_144, cinfft16_176, cinfft16_288, cinfft16_320, cinfft16_352, cinfft16_352, cinfft16_480, cinfft16_640, cinfft16_96, ifft_cplx16x16, ifft_real16x16, rifft16_128, rifft16_128, rifft16_256, rifft16_576, cinfft16_576, cinfft16_576, cinfft16_128, rifft16_128, rifft16_128, rifft16_128, rifft16_256, rifft16_512, rifft16_512, rifft16_512, rifft16_512, rifft16_144, rinfft16_176, rinfft16_288, rinfft16_288, rinfft16_352, rinfft16_352, rinfft16_352, rinfft16_356, rifft16_3576, rinfft16_576, rinfft16_576, rinfft16_576, rinfft16_640,	
imgifft_common_hifi4.o	1425		NatureDSP_Signal_931, NatureDSP_Signal_933	rinfft16_96divsi3, NatureDSP_Signal_931,	
imgifft_gu8_hifi4.o imgifft_gs8_hifi4.o	851 658		imgifft_gu8, imgifft_gu8_getScratchSize imgifft_gs8, imgifft_gs8_getScratchSize	NatureDSP_Signal_933divsi3,	

Object file	Code	Data size Symbols Global	Symbols			
	size		Referenced			
				NatureDSP_Signal_931,		
				NatureDSP_Signal_933		
				NatureDSP Signal 931,		
imgifft_gs16_hifi4.o	394		<pre>imgifft_gs16, imgifft_gs16_getScratchSize</pre>	NatureDSP_Signal_933		
img_gu8_crop_hifi4.o	1931		NatureDSP_Signal_860			
img gs8 crop hifi4.o img gs hshear hifi4.o	942		NatureDSP_Signal_1024  NatureDSP_Signal_862			
img qu8 rot0 16 hifi4.o	818		NatureDSP_Signal_002 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 img_gu8_rot90_16_hifi4.o	578 1148		NatureDSP Signal 982  NatureDSP Signal 985			
img gu8 rot90 hifi4.o	642		NatureDSP_Signal_984			
				NatureDSP_Signal_978, NatureDSP_Signal_980, NatureDSP_Signal_982,		
img_gu8_rotq_hifi4.o	104		NatureDSP_Signal_863	NatureDSP_Signal_984 NatureDSP Signal 979,		
img gu8 rotq16 hifi4.o	126		NatureDSP Signal 864	NatureDSP_Signal_981, NatureDSP_Signal_983, NatureDSP_Signal_985		
img gs8 rot0 16 hifi4.o	983		NatureDSP Signal 1026	NacureDSI_Signal_903		
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	nacarezer_ergnar_reze		
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 img_gs16_rot180_16_hifi4.o	271 484		NatureDSP Signal 975 NatureDSP Signal 1014			
img qs16 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  NatureDSP_Signal_858	NatureDSP_Signal_974, NatureDSP_Signal_975, NatureDSP_Signal_976, NatureDSP_Signal_977 NatureDSP_Signal_1013,		
img gs16 rotq16 hifi4.o	126		NatureDSP Signal 859	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 imgfast gu8 rot180 hifi4.o	634 777		NatureDSP Signal 997 NatureDSP Signal 996			
imgfast gu8 rot270 16 hifi4.o	1728		NatureDSP_Signal_996  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 NatureDSP_Signal_1001,		
imgfast gu8 rotg16 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			

	Cada	Data	Symbols		
Object file	Code size	Data size	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	
	101			NatureDSP_Signal_1041, NatureDSP_Signal_1042, NatureDSP_Signal_1043,	
imgfast_gs8_rotq16_hifi4.o imgfast_gs16_crop_hifi4.o	126 532		NatureDSP Signal 1046 NatureDSP Signal 882	NatureDSP_Signal_1044	
imgfast qs16 rot0 16 hifi4.o	437		NatureDSP Signal 987		
imgfast_gs16_rot0_hifi4.o	167		NatureDSP_Signal_986		
<pre>imgfast_gs16_rot180_16_hifi4. o</pre>	541		NatureDSP_Signal_989		
imgfast_gs16_rot180_hifi4.o	262		NatureDSP_Signal_988		
imgfast_gs16_rot270_16_hifi4.	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 NatureDSP_Signal_987,	
imgfast_gs16_rotq16_hifi4.o	126		NatureDSP_Signal_885	NatureDSP_Signal_989, NatureDSP_Signal_991, NatureDSP_Signal_993	
imgfastrotate gu8 hifi4.o	258	40	<pre>imgfastrotate_gu8_alloc, imgfastrotate_gu8_getOutSize, imgfastrotate_gu8_getScratchSize, imgfastrotate_gu8_init, imgfastrotate_gu8_process</pre>	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	<pre>imgfastrotate_gs8_alloc, imgfastrotate_gs8_getOutSize, imgfastrotate_gs8_getScratchSize, imgfastrotate_gs8_init, imgfastrotate_gs8_process</pre>	NatureDSP_Signal_1040, NatureDSP_Signal_1045, NatureDSP_Signal_1046, NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_914, NatureDSP_Signal_915 NatureDSP_Signal_862,	
imgfastrotate gs16 hifi4.o	258	40	<pre>imgfastrotate_gs16_alloc, imgfastrotate_gs16_getOutSize, imgfastrotate_gs16_getScratchSize, imgfastrotate_gs16_init, imgfastrotate_gs16_process, NatureDSP_Signal_883</pre>	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	<pre>imgrotate_gu8_alloc, imgrotate_gu8_getOutSize, imgrotate_gu8_getScratchSize, imgrotate_gu8_init, imgrotate_gu8_process, NatureDSP_Signal_861</pre>	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	<pre>imgrotate_gs8_alloc, imgrotate_gs8_getOutSize, imgrotate_gs8_getScratchSize, imgrotate_gs8_init, imgrotate_gs8_process, NatureDSP_Signal_1025</pre>	NatureDSP_Signal_1024, NatureDSP_Signal_1030, NatureDSP_Signal_1031, NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_914, NatureDSP_Signal_915  NatureDSP_Signal_956,	
<pre>imgrotate_gs16_hifi4.o imgrotate_process_hifi4.o</pre>	258 231	40	NatureDSP_Signal_915	NatureDSP_Signal_858, NatureDSP_Signal_859, NatureDSP_Signal_862, NatureDSP_Signal_865, NatureDSP_Signal_914, 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	<u> </u>	
cmatcholdiagUpd_hifi4.o	293	l	NatureDSP_Signal_965		

	Code size	Data	Symbols			
Object file		size	Global	Referenced		
<pre>cmatcholdecomp10x10_32x32_hif i4.o</pre>	1000		cmatcholdecomp10x10_32x32,	NatureDSP_Signal_1019,		
cmatcholdecomp4x4_32x32_hifi4	1026		cmatcholdecomp10x10_32x32_getScratchSize cmatcholdecomp4x4 32x32,	NatureDSP_Signal_965 NatureDSP Signal 1019,		
.o cmatcholdecomp6x6 32x32 hifi4	597		cmatcholdecomp4x4 32x32 getScratchSize cmatcholdecomp6x6 32x32,	NatureDSP_Signal_965 NatureDSP_Signal_1019,		
.0	721		cmatcholdecomp6x6_32x32, cmatcholdecomp6x6_32x32_getScratchSize	NatureDSP_Signal_965		
cmatcholdecomp8x8_32x32_hifi4	888		cmatcholdecomp8x8_32x32, cmatcholdecomp8x8_32x32 getScratchSize	NatureDSP_Signal_1019, NatureDSP Signal 965		
cmatcholbkwsubst10x10_32x32_h	000		cmatcholbkwsubst10x10_32x32,	NatureDSF_Signal_903		
ifi4.o cmatcholbkwsubst4x4 32x32 hif	434		cmatcholbkwsubst10x10_32x32_getScratchSize cmatcholbkwsubst4x4 32x32,			
i4.o	413		cmatcholbkwsubst4x4_32x32_getScratchSize			
cmatcholbkwsubst6x6_32x32_hif i4.o	434		cmatcholbkwsubst6x6_32x32, cmatcholbkwsubst6x6_32x32_getScratchSize			
cmatcholbkwsubst8x8_32x32_hif			cmatcholbkwsubst8x8_32x32,			
i4.o cmatcholfwdsubst10x10 32x32 h	434		cmatcholbkwsubst8x8_32x32_getScratchSize cmatcholfwdsubst10x10 32x32,			
ifi4.o	1195		cmatcholfwdsubst10x10_32x32_getScratchSize			
cmatcholfwdsubst4x4_32x32_hif i4.o	686		cmatcholfwdsubst4x4_32x32, cmatcholfwdsubst4x4_32x32_getScratchSize			
cmatcholfwdsubst6x6_32x32_hif			cmatcholfwdsubst6x6_32x32,			
i4.o cmatcholfwdsubst8x8 32x32 hif	836		cmatcholfwdsubst6x6 32x32 getScratchSize cmatcholfwdsubst8x8 32x32,			
i4.0	947		cmatcholfwdsubst8x8_32x32_getScratchSize			
				cmatcholbkwsubst10x10_3 2x32,		
				cmatcholbkwsubst10x10_3		
				2x32_getScratchSize, cmatcholdecomp10x10 32x		
				32,		
				cmatcholdecomp10x10_32x		
				32_getScratchSize, cmatcholfwdsubst10x10 3		
				2x32,		
cmatcholmmsesolver10x10_32x32 hifi4.o	161		<pre>cmatcholmmsesolver10x10_32x32, cmatcholmmsesolver10x10_32x32 getScratchSize</pre>	cmatcholfwdsubst10x10_3 2x32 getScratchSize		
	101		Chatcholianbebolvellox10_32x32_getbolaconolize	cmatcholbkwsubst4x4_32x		
				32, cmatcholbkwsubst4x4 32x		
				32_getScratchSize,		
				cmatcholdecomp4x4_32x32		
				cmatcholdecomp4x4_32x32		
				_getScratchSize,		
				cmatcholfwdsubst4x4_32x 32,		
<pre>cmatcholmmsesolver4x4_32x32_h ifi4.o</pre>	150		cmatcholmmsesolver4x4_32x32,	cmatcholfwdsubst4x4_32x		
1114.0	158		cmatcholmmsesolver4x4_32x32_getScratchSize	32_getScratchSize cmatcholbkwsubst6x6 32x		
				32,		
				cmatcholbkwsubst6x6_32x 32 getScratchSize,		
				cmatcholdecomp6x6_32x32		
				, cmatcholdecomp6x6 32x32		
				_getScratchSize,		
				cmatcholfwdsubst6x6_32x 32,		
cmatcholmmsesolver6x6_32x32_h			cmatcholmmsesolver6x6_32x32,	cmatcholfwdsubst6x6_32x		
ifi4.o	161		cmatcholmmsesolver6x6_32x32_getScratchSize	32_getScratchSize		
				cmatcholbkwsubst8x8_32x 32,		
				cmatcholbkwsubst8x8_32x		
				32_getScratchSize, cmatcholdecomp8x8_32x32		
				<pre>cmatcholdecomp8x8_32x32     _getScratchSize,</pre>		
				cmatcholfwdsubst8x8_32x		
cmatcholmmsesolver8x8 32x32 h			cmatcholmmsesolver8x8 32x32,	32, cmatcholfwdsubst8x8 32x		
ifi4.o	161		cmatcholmmsesolver8x8_32x32_getScratchSize	32_getScratchSize		
				cmatcholdecomp10x10_32x 32,		
				cmatcholdecomp10x10_32x		
cmatcholpseudoinv10x10_32x32_	153		cmatcholpseudoinv10x10_32x32,	32_getScratchSize,		
hifi4.o	133	I	cmatcholpseudoinv10x10_32x32_getScratchSize	NatureDSP_Signal_1017,		

Object file	Code		Symbols		
	size		Global	Referenced	
·				NatureDSP_Signal_1018,	
				NatureDSP_Signal_968 cmatcholdecomp4x4 32x32	
				cmatchoidecomp4x4_32x32	
				cmatcholdecomp4x4_32x32	
				_getScratchSize, NatureDSP Signal 1017,	
cmatcholpseudoinv4x4_32x32_hi			cmatcholpseudoinv4x4_32x32,	NatureDSP_Signal_1018,	
fi4.o	147		cmatcholpseudoinv4x4_32x32_getScratchSize	NatureDSP_Signal_968 cmatcholdecomp6x6 32x32	
				,	
				<pre>cmatcholdecomp6x6_32x32   getScratchSize,</pre>	
				NatureDSP Signal 1017,	
cmatcholpseudoinv6x6_32x32_hi	150		cmatcholpseudoinv6x6_32x32,	NatureDSP_Signal_1018,	
fi4.o	150		cmatcholpseudoinv6x6_32x32_getScratchSize	NatureDSP_Signal_968 cmatcholdecomp8x8 32x32	
				,	
				cmatcholdecomp8x8_32x32 getScratchSize,	
				NatureDSP Signal 1017,	
cmatcholpseudoinv8x8_32x32_hi	150		cmatcholpseudoinv8x8_32x32,	NatureDSP_Signal_1018,	
fi4.o cmatcholpreprocess10x10 32x32	153		cmatcholpseudoinv8x8_32x32_getScratchSize cmatcholpreprocess10x10 32x32,	NatureDSP_Signal_968	
_hifi4.o	1010		cmatcholpreprocess10x10_32x32_getScratchSize		
cmatcholpreprocess4x4_32x32_h ifi4.o	626		cmatcholpreprocess4x4_32x32, cmatcholpreprocess4x4_32x32 getScratchSize		
cmatcholpreprocess6x6 32x32 h	020		cmatcholpreprocess6x6 32x32,		
ifi4.o	724		cmatcholpreprocess6x6_32x32_getScratchSize		
<pre>cmatcholpreprocess8x8_32x32_h ifi4.o</pre>	888		cmatcholpreprocess8x8_32x32, cmatcholpreprocess8x8_32x32_getScratchSize		
matcholbkwsubstnxn hifi4.o	440		NatureDSP Signal 1020		
matcholfwdsubstnxn_hifi4.o	386		NatureDSP_Signal_1022		
matcholfwdsubstrec_hifi4.o matcholdiagUpd hifi4.o	508 274		NatureDSP_Signal_1023  NatureDSP Signal 1021		
materioraragopa_nrrr4.0	2/1		NatureDST_SIGNAT_1021	matcholpreprocess10x10	
				32x32,	
<pre>matcholdecomp10x10_32x32_hifi 4.0</pre>	115		<pre>matcholdecomp10x10_32x32, matcholdecomp10x10_32x32 getScratchSize</pre>	NatureDSP_Signal_1021, NatureDSP Signal 1023	
				matcholpreprocess4x4_32	
matcholdecomp4x4 32x32 hifi4.			matcholdecomp4x4 32x32,	x32, NatureDSP Signal 1021,	
0	115		matcholdecomp4x4_32x32, matcholdecomp4x4_32x32_getScratchSize	NatureDSP_Signal_1023	
				matcholpreprocess6x6_32	
matcholdecomp6x6 32x32 hifi4.			matcholdecomp6x6 32x32,	x32, NatureDSP Signal 1021,	
0	115		matcholdecomp6x6_32x32_getScratchSize	NatureDSP_Signal_1023	
				matcholpreprocess8x8_32 x32,	
matcholdecomp8x8 32x32 hifi4.			matcholdecomp8x8 32x32,	NatureDSP_Signal_1021,	
0	115		matcholdecomp8x8_32x32_getScratchSize	NatureDSP_Signal_1023	
matcholbkwsubst10x10_32x32_hi fi4.o	316		matcholbkwsubst10x10_32x32, matcholbkwsubst10x10_32x32_getScratchSize		
matcholbkwsubst4x4_32x32_hifi			matcholbkwsubst4x4_32x32,		
4.o matcholbkwsubst6x6_32x32_hifi	314		matcholbkwsubst4x4 32x32 getScratchSize matcholbkwsubst6x6 32x32,		
4.0	302		matcholbkwsubst6x6_32x32_getScratchSize		
matcholbkwsubst8x8_32x32_hifi	211		matcholbkwsubst8x8_32x32,		
4.0 matcholfwdsubst10x10 32x32 hi	311	1	matcholbkwsubst8x8_32x32_getScratchSize matcholfwdsubst10x10 32x32,		
fi4.o	725		matcholfwdsubst10x10_32x32_getScratchSize		
matcholfwdsubst4x4_32x32_hifi 4.o	422		matcholfwdsubst4x4_32x32, matcholfwdsubst4x4_32x32_getScratchSize		
matcholfwdsubst6x6_32x32_hifi	422		matcholfwdsubst4x4_32x32_getscratchsize		
4.0	575		matcholfwdsubst6x6_32x32_getScratchSize		
matcholfwdsubst8x8_32x32_hifi 4.0	693		<pre>matcholfwdsubst8x8_32x32, matcholfwdsubst8x8_32x32 getScratchSize</pre>		
	3,3			matcholbkwsubst10x10_32	
				x32,	
				matcholbkwsubst10x10_32 x32 getScratchSize,	
				matcholdecomp10x10_32x3	
				2, matcholdecomp10x10 32x3	
matcholmmsesolver10x10 32x32				2_getScratchSize,	
			matcholmmsesolver10x10 32x32,	matcholfwdsubst10x10 32	

	Code	Data size	Symbols		
Object file	Code size		Global	Referenced	
				matcholfwdsubst10x10_32	
				x32_getScratchSize matcholbkwsubst4x4_32x3	
				2, matcholbkwsubst4x4 32x3	
				2_getScratchSize,	
				matcholdecomp4x4_32x32, matcholdecomp4x4_32x32	
				<pre>getScratchSize, matcholfwdsubst4x4 32x3</pre>	
				2,	
<pre>matcholmmsesolver4x4_32x32_hi fi4.o</pre>	222		matcholmmsesolver4x4_32x32, matcholmmsesolver4x4_32x32_getScratchSize	matcholfwdsubst4x4_32x3 2_getScratchSize	
				matcholbkwsubst6x6_32x3	
				matcholbkwsubst6x6_32x3	
				2_getScratchSize, matcholdecomp6x6 32x32,	
				matcholdecomp6x6_32x32_ getScratchSize,	
				matcholfwdsubst6x6_32x3	
matcholmmsesolver6x6_32x32_hi			matcholmmsesolver6x6 32x32,	2, matcholfwdsubst6x6 32x3	
fi4.0	224		matcholmmsesolver6x6_32x32_getScratchSize	2_getScratchSize	
				matcholbkwsubst8x8_32x3 2,	
				matcholbkwsubst8x8_32x3 2 getScratchSize,	
				matcholdecomp8x8_32x32, matcholdecomp8x8_32x32	
				getScratchSize,	
				matcholfwdsubst8x8_32x3 2,	
<pre>matcholmmsesolver8x8_32x32_hi fi4.o</pre>	230		matcholmmsesolver8x8_32x32,	matcholfwdsubst8x8_32x3	
114.0	230		matcholmmsesolver8x8_32x32_getScratchSize	2_getScratchSize matcholdecomp10x10_32x3	
				2, matcholdecomp10x10 32x3	
matabalmaandainvilovilo 22v22 b			matcholpseudoinv10x10 32x32,	2_getScratchSize, NatureDSP Signal 1020,	
<pre>matcholpseudoinv10x10_32x32_h ifi4.o</pre>	137		matcholpseudoinv10x10_32x32_getScratchSize	NatureDSP_Signal_1022	
				matcholdecomp4x4_32x32, matcholdecomp4x4_32x32	
matchelpsoudeinvAvA 32v32 hif			matchelmcoudeinu/v/ 32v32	getScratchSize,	
<pre>matcholpseudoinv4x4_32x32_hif i4.o</pre>	129		<pre>matcholpseudoinv4x4_32x32, matcholpseudoinv4x4_32x32_getScratchSize</pre>	NatureDSP_Signal_1020, NatureDSP_Signal_1022	
				matcholdecomp6x6_32x32, matcholdecomp6x6_32x32	
matchelmooudeinukuk 22.22 hif			matchelmoovdeinvere 22v22	getScratchSize,	
<pre>matcholpseudoinv6x6_32x32_hif i4.o</pre>	132		<pre>matcholpseudoinv6x6_32x32, matcholpseudoinv6x6_32x32_getScratchSize</pre>	NatureDSP_Signal_1020, NatureDSP_Signal_1022	
				matcholdecomp8x8_32x32, matcholdecomp8x8_32x32	
				getScratchSize,	
<pre>matcholpseudoinv8x8_32x32_hif i4.o</pre>	137		<pre>matcholpseudoinv8x8_32x32, matcholpseudoinv8x8_32x32_getScratchSize</pre>	NatureDSP_Signal_1020, NatureDSP_Signal_1022	
<pre>matcholpreprocess10x10_32x32_ hifi4.o</pre>	339		matcholpreprocess10x10_32x32, matcholpreprocess10x10_32x32 getScratchSize		
matcholpreprocess4x4_32x32_hi			matcholpreprocess4x4_32x32,		
fi4.o matcholpreprocess6x6 32x32 hi	330		matcholpreprocess4x4 32x32 getScratchSize matcholpreprocess6x6 32x32,		
fi4.o matcholpreprocess8x8 32x32 hi	330		matcholpreprocess6x6 32x32 getScratchSize matcholpreprocess8x8 32x32,		
fi4.0	336		matcholpreprocess8x8_32x32_getScratchSize		
				cmatcholpreprocess10x10 f,	
				NatureDSP_Signal_1012, NatureDSP_Signal_831,	
				NatureDSP_Signal_832,	
				NatureDSP_Signal_833, NatureDSP Signal 834,	
				NatureDSP_Signal_835, NatureDSP_Signal_836,	
				NatureDSP_Signal_837,	
			cmatcholdecomp10x10f,	NatureDSP_Signal_838, NatureDSP Signal 839,	
cmatcholdecomp10x10f_hifi4.o	115	40		NatureDSP_Signal_840	

	Code Data Symbols		Symbols			
Object file	Code size	Data size	Global	Referenced		
				cmatcholpreprocess4x4f, NatureDSP Signal 1012,		
				NatureDSP_Signal_832,		
			cmatcholdecomp4x4f,	NatureDSP_Signal_833, NatureDSP Signal 834,		
cmatcholdecomp4x4f hifi4.o	115	16	cmatcholdecomp4x4f getScratchSize	NatureDSP Signal 835		
				cmatcholpreprocess6x6f,		
				NatureDSP_Signal_1012, NatureDSP Signal 832,		
				NatureDSP_Signal_032,		
				NatureDSP_Signal_834,		
			cmatcholdecomp6x6f,	NatureDSP_Signal_835, NatureDSP Signal 836,		
cmatcholdecomp6x6f hifi4.o	115	24	cmatcholdecomp6x6f getScratchSize	NatureDSP_Signal_837		
			- <del>-</del>	cmatcholpreprocess8x8f,		
				NatureDSP_Signal_1012, NatureDSP Signal 832,		
				NatureDSP Signal 833,		
				NatureDSP_Signal_834,		
				NatureDSP_Signal_835, NatureDSP Signal 836,		
				NatureDSP Signal 837,		
			cmatcholdecomp8x8f,	NatureDSP_Signal_838,		
cmatcholdecomp8x8f_hifi4.o cmatcholbkwsubst10x10f hifi4.	115	32	cmatcholdecomp8x8f_getScratchSize cmatcholbkwsubst10x10f,	NatureDSP_Signal_839		
o	875		cmatcholbkwsubstl0x10f getScratchSize			
			cmatcholbkwsubst4x4f,			
cmatcholbkwsubst4x4f_hifi4.o	210		cmatcholbkwsubst4x4f_getScratchSize cmatcholbkwsubst6x6f,			
cmatcholbkwsubst6x6f hifi4.o	389		cmatcholbkwsubst6x6f getScratchSize			
_			cmatcholbkwsubst8x8f,			
cmatcholbkwsubst8x8f_hifi4.o	612		cmatcholbkwsubst8x8f_getScratchSize			
cmatcholfwdsubst10x10f hifi4.			<pre>cmatcholfwdsubst10x10f, cmatcholfwdsubst10x10f getScratchSize,</pre>			
0	460		NatureDSP_Signal_841	NatureDSP_Signal_831		
			cmatcholfwdsubst4x4f,			
cmatcholfwdsubst4x4f hifi4.o	276		cmatcholfwdsubst4x4f_getScratchSize, NatureDSP Signal 842	NatureDSP Signal 835		
_			cmatcholfwdsubst6x6f,			
	076		cmatcholfwdsubst6x6f_getScratchSize,	W. L		
cmatcholfwdsubst6x6f_hifi4.o	276		NatureDSP_Signal_843 cmatcholfwdsubst8x8f,	NatureDSP_Signal_837		
			cmatcholfwdsubst8x8f_getScratchSize,			
cmatcholfwdsubst8x8f_hifi4.o	398		NatureDSP_Signal_844	NatureDSP_Signal_839 cmatcholbkwsubst10x10f,		
				cmatcholbkwsubstl0x10f		
				getScratchSize,		
				cmatcholdecomp10x10f, cmatcholdecomp10x10f ge		
				tScratchSize,		
				cmatcholfwdsubstl0x10f,		
cmatcholmmsesolver10x10f_hifi 4.0	124		cmatcholmmsesolver10x10f, cmatcholmmsesolver10x10f getScratchSize	cmatcholfwdsubst10x10f_ getScratchSize		
5	121			cmatcholbkwsubst4x4f,		
				cmatcholbkwsubst4x4f_ge		
				tScratchSize, cmatcholdecomp4x4f,		
				cmatcholdecomp4x4f_getS		
				cratchSize, cmatcholfwdsubst4x4f,		
cmatcholmmsesolver4x4f hifi4.			cmatcholmmsesolver4x4f,	cmatcholiwdsubst4x4f, cmatcholfwdsubst4x4f ge		
0	121		cmatcholmmsesolver4x4f_getScratchSize	tScratchSize		
				cmatcholbkwsubst6x6f, cmatcholbkwsubst6x6f ge		
				tScratchSize,		
				cmatcholdecomp6x6f,		
				<pre>cmatcholdecomp6x6f_getS cratchSize,</pre>		
				cmatcholfwdsubst6x6f,		
cmatcholmmsesolver6x6f_hifi4.			cmatcholmmsesolver6x6f,	cmatcholfwdsubst6x6f_ge		
0	123		cmatcholmmsesolver6x6f_getScratchSize	tScratchSize cmatcholbkwsubst8x8f,		
				cmatcholbkwsubst8x8f_ge		
				tScratchSize,		
				cmatcholdecomp8x8f, cmatcholdecomp8x8f getS		
cmatcholmmsesolver8x8f_hifi4.			cmatcholmmsesolver8x8f,	cratchSize,		
0	126	]	cmatcholmmsesolver8x8f_getScratchSize	cmatcholfwdsubst8x8f,		

	Code	Data	Symbols			
Object file	size	size	Global	Referenced		
·				cmatcholfwdsubst8x8f_ge tScratchSize		
cmatcholpseudoinv10x10f_hifi4	1195		<pre>cmatcholpseudoinv10x10f, cmatcholpseudoinv10x10f getScratchSize</pre>	cmatcholdecomp10x10f, cmatcholdecomp10x10f_ge tScratchSize		
			cmatcholpseudoinv4x4f,	cmatcholdecomp4x4f, cmatcholdecomp4x4f_getS		
cmatcholpseudoinv4x4f_hifi4.o	454		cmatcholpseudoinv4x4f_getScratchSize cmatcholpseudoinv6x6f,	cratchSize cmatcholdecomp6x6f, cmatcholdecomp6x6f getS		
cmatcholpseudoinv6x6f_hifi4.o	767		cmatcholpseudoinv6x6f_getScratchSize	cratchSize cmatcholdecomp8x8f,		
cmatcholpseudoinv8x8f_hifi4.o	1004		<pre>cmatcholpseudoinv8x8f, cmatcholpseudoinv8x8f_getScratchSize</pre>	cmatcholdecomp8x8f_getS cratchSize		
cmatcholpreprocess10x10f_hifi	328		cmatcholpreprocess10x10f, cmatcholpreprocess10x10f_getScratchSize			
cmatcholpreprocess4x4f_hifi4. o cmatcholpreprocess6x6f hifi4.	628		cmatcholpreprocess4x4f, cmatcholpreprocess4x4f_getScratchSize cmatcholpreprocess6x6f,			
cmatcholpreprocessoxof_niii4. cmatcholpreprocess8x8f hifi4.	327		cmatcholpreprocess6x6f_getScratchSize cmatcholpreprocess8x8f,			
o cplxcholDiagUpdf hifi4.o	323 108		cmatcholpreprocess8x8f_getScratchSize NatureDSP Signal 1012			
cplxcholFwdrec10f_hifi4.o	832		NatureDSP_Signal_831			
cplxcholFwdrec1f_hifi4.o	20		NatureDSP_Signal_832			
cplxcholFwdrec2f_hifi4.o cplxcholFwdrec3f hifi4.o	54 110		NatureDSP_Signal_833 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	matcholpreprocess10x10f		
matcholdecomp10x10f hifi4.o	115	40	<pre>matcholdecomp10x10f, matcholdecomp10x10f getScratchSize</pre>	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,	matcholpreprocess4x4f, NatureDSP_Signal_1003, NatureDSP_Signal_1004, NatureDSP_Signal_1005, NatureDSP_Signal_1006,		
matcholdecomp4x4f hifi4.o	114	16	<pre>matcholdecomp4x4f_getScratchSize  matcholdecomp6x6f,</pre>	NatureDSP_Signal_972 matcholpreprocess6x6f, NatureDSP_Signal_1003, NatureDSP_Signal_1004, NatureDSP_Signal_1005, NatureDSP_Signal_1006, NatureDSP_Signal_1007, NatureDSP_Signal_1007,		
matcholdecomp6x6f_hifi4.o	115	24	matcholdecomp6x6f, matcholdecomp6x6f_getScratchSize	NatureDSP_Signal_972		
			matcholdecomp8x8f,	matcholpreprocess8x8f, NatureDSP_Signal_1003, NatureDSP_Signal_1004, NatureDSP_Signal_1005, NatureDSP_Signal_1006, NatureDSP_Signal_1007, NatureDSP_Signal_1008, NatureDSP_Signal_1009, NatureDSP_Signal_1009, NatureDSP_Signal_1010,		
matcholdecomp8x8f_hifi4.o	115	32		NatureDSP_Signal_972		
matcholbkwsubst10x10f_hifi4.o	549		matcholbkwsubstl0x10f_getScratchSize matcholbkwsubst4x4f,			
matcholbkwsubst4x4f_hifi4.o	148		matcholbkwsubst4x4f getScratchSize matcholbkwsubst6x6f,			
matcholbkwsubst6x6f_hifi4.o	255		matcholbkwsubst6x6f_getScratchSize			

Object file	Code size	Data size	Symbols	
			Global	Referenced
matcholbkwsubst8x8f hifi4.o	390		matcholbkwsubst8x8f, matcholbkwsubst8x8f getScratchSize	
matcholfwdsubstl0x10f hifi4.o	470		matcholfwdsubstl0x10f, matcholfwdsubstl0x10f getScratchSize	NatureDSP Signal 1002
matcholfwdsubst4x4f_hifi4.o	131		<pre>matcholfwdsubst4x4f, matcholfwdsubst4x4f_getScratchSize</pre>	NatureDSP_Signal_1006
matcholfwdsubst6x6f hifi4.o	185		<pre>matcholfwdsubst6x6f, matcholfwdsubst6x6f getScratchSize</pre>	NatureDSP Signal 1008
matcholfwdsubst8x8f hifi4.o	338		matcholfwdsubst8x8f, matcholfwdsubst8x8f getScratchSize	NatureDSP Signal 1010
macchoriwasusscoxol nilita.o	330		matcholiwasabstoxol_getselatenolie	matcholbkwsubst10x10f, matcholbkwsubst10x10f_g etScratchSize, matcholdecomp10x10f, matcholdecomp10x10f_get ScratchSize, matcholfwdsubst10x10f,
<pre>matcholmmsesolver10x10f_hifi4 .o</pre>	124		<pre>matcholmmsesolver10x10f, matcholmmsesolver10x10f_getScratchSize</pre>	matcholfwdsubst10x10f_g etScratchSize matcholbkwsubst4x4f, matcholbkwsubst4x4f_get
matabalwaagalwayAuAf hifii a	112		<pre>matcholmmsesolver4x4f, matcholmmsesolver4x4f getScratchSize</pre>	ScratchSize, matcholdecomp4x4f, matcholdecomp4x4f_getSc ratchSize, matcholfwdsubst4x4f, matcholfwdsubst4x4f_get
matcholmmsesolver4x4f_hifi4.o	113		matcholmmsesolver4x4f_getScratchSize	ScratchSize matcholbkwsubst6x6f,
matcholmmsesolver6x6f_hifi4.o	121		<pre>matcholmmsesolver6x6f, matcholmmsesolver6x6f_getScratchSize</pre>	matcholbkwsubst6x6f_get ScratchSize, matcholdecomp6x6f, matcholdecomp6x6f_getSc ratchSize, matcholfwdsubst6x6f, matcholfwdsubst6x6f, matcholfwdsubst6x6f_get ScratchSize matcholbkwsubst8x8f, matcholbkwsubst8x8f,
<pre>matcholmmsesolver8x8f hifi4.o matcholpseudoinv10x10f_hifi4.</pre>	124		<pre>matcholmmsesolver8x8f, matcholmmsesolver8x8f_getScratchSize matcholpseudoinv10x10f,</pre>	ScratchSize, matcholdecomp8x8f, matcholdecomp8x8f_getSc ratchSize, matcholfwdsubst8x8f, matcholfwdsubst8x8f_get ScratchSize matcholdecomp10x10f, matcholdecomp10x10f_get
0	528		matcholpseudoinv10x10f_getScratchSize	ScratchSize matcholdecomp4x4f,
matcholpseudoinv4x4f_hifi4.o	280		<pre>matcholpseudoinv4x4f, matcholpseudoinv4x4f_getScratchSize</pre>	matcholdecomp4x4f_getSc ratchSize
matcholpseudoinv6x6f_hifi4.o	344		<pre>matcholpseudoinv6x6f, matcholpseudoinv6x6f_getScratchSize</pre>	<pre>matcholdecomp6x6f, matcholdecomp6x6f_getSc ratchSize</pre>
matcholpseudoinv8x8f hifi4.o	427		matcholpseudoinv8x8f, matcholpseudoinv8x8f_getScratchSize	<pre>matcholdecomp8x8f, matcholdecomp8x8f_getSc ratchSize</pre>
<pre>matcholpreprocess10x10f_hifi4 .0</pre>	540		matcholpreprocess10x10f, matcholpreprocess10x10f_getScratchSize	
matcholpreprocess4x4f_hifi4.o	333		matcholpreprocess4x4f, matcholpreprocess4x4f_getScratchSize matcholpreprocess6x6f,	
matcholpreprocess6x6f_hifi4.o	873		matcholpreprocess6x6f getScratchSize matcholpreprocess8x8f,	
matcholpreprocess8x8f_hifi4.o	477		matcholpreprocess8x8f_getScratchSize	
realcholDiagUpdf_hifi4.o realcholFwdrec10f hifi4.o	155 495		NatureDSP_Signal_972  NatureDSP Signal 1002	
realcholfwdrec10f_hifi4.o	495 20		NatureDSP_Signal_1002 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	287 350		NatureDSP_Signal_1009 NatureDSP_Signal_1010	
realcholfwdrec9f hifi4.o	430		NatureDSP_Signal_1010  NatureDSP Signal 1011	
TEGICIOIF WOLEC 91_IIIII4.0	430		Macatenot_ordust_tott	

	Code	Data	Symbols	
Object file	size	size	Global	Referenced
			NatureDSP_Signal_annotation_scl_complex2invm ag, NatureDSP Signal annotation scl complex2mag,	
NatureDSP Signal complex id.o		236	NatureDSP_Signal_annotation_vec_complex2invm ag, NatureDSP Signal annotation vec complex2mag	
NatureDSP_Signal_complex_id.o		236	NatureDSP Signal annotation vec complex2invm ag, NatureDSP Signal annotation vec complex2mag NatureDSP Signal annotation dt 16x16, NatureDSP Signal annotation dt 16x16, NatureDSP Signal annotation dt 24x24, NatureDSP Signal annotation dt 32x36, NatureDSP Signal annotation dt 32x32, NatureDSP Signal annotation dt 42x24, NatureDSP Signal annotation dt 42x24, NatureDSP Signal annotation dt 42x24, NatureDSP Signal annotation dt 43x32, NatureDSP Signal annotation dt 43x32, NatureDSP Signal annotation dt 43x32, NatureDSP Signal annotation fft cplx16x16, NatureDSP Signal annotation fft cplx16x16, NatureDSP Signal annotation fft cplx24x24, NatureDSP Signal annotation fft cplx24x24, NatureDSP Signal annotation fft cplx24x24, NatureDSP Signal annotation fft cplx24x24, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft cplx32x32, NatureDSP Signal annotation fft real16x16, NatureDSP Signal annotation fft real24x24, NatureDSP Signal annotation fft real24x24, NatureDSP Signal annotation fft real32x16, NatureDSP Signal annotation fft real32x16, NatureDSP Signal annotation fft real32x32, NatureDSP Signal annotation fft real32x32, NatureDSP Signal annotation fft real32x32, NatureDSP Signal annotation fft spectrum16x32, NatureDSP Signal annotation ifft cplx16x16, NatureDSP Signal annotation ifft cplx16x16, NatureDSP Signal annotation ifft cplx16x16, NatureDSP Signal annotation ifft cplx16x16, NatureDSP Signal annotation ifft cplx16x16, NatureDSP Signal annotation ifft cplx24x24, NatureDSP Signal annotation ifft cplx24x24, NatureDSP Signal annotation ifft cplx32x32, NatureDSP Signal annotation ifft cplx32x32, NatureDSP Signal annotation ifft cplx32x32, NatureDSP Signal annotation ifft cplx32x32, NatureDSP Signal annotation ifft cplx32x32, NatureDSP Sign	
			e_24p, NatureDSP_Signal_annotation_ifft_real32x16, NatureDSP_Signal_annotation_ifft_real32x16_i e, NatureDSP_Signal_annotation_ifft_real32x16_i e_24p, NatureDSP_Signal_annotation_ifft_real32x32, NatureDSP_Signal_annotation_ifft_real32x32_i e, NatureDSP_Signal_annotation_ifft_realf_ie,	
NatureDSP_Signal_fft_id.o		5401	NatureDSP_Signal_annotation_imdct_24x24, NatureDSP_Signal_annotation_imdct_32x16, NatureDSP_Signal_annotation_imdct_32x32,	

	Code Data		Symbols	
Object file	size	size	Global	Referenced
			NatureDSP_Signal_annotation_mdct_24x24, NatureDSP_Signal_annotation_mdct_32x16, NatureDSP_Signal_annotation_mdct_32x32, NatureDSP_Signal_annotation_stereo_fft_cplx1 6x16_ie, NatureDSP_Signal_annotation_stereo_fft_cplx3 2x16_ie, NatureDSP_Signal_annotation_stereo_fft_cplx3 2x32_ie, NatureDSP_Signal_annotation_stereo_fft_cplxf_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx 16x16_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx 32x16_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx 32x16_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx 32x32_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx 32x32_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx 32x32_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx 32x32_ie, NatureDSP_Signal_annotation_stereo_ifft_cplx	
			NatureDSP_Signal_annotation_stereo_ifft_cplx f_ie NatureDSP_Signal_annotation_bkfir16x16_proce ss, NatureDSP_Signal_annotation_bkfir24x24_proce ss, NatureDSP_Signal_annotation_bkfir24x24p_proc	
			ess, NatureDSP_Signal_annotation_bkfir32x16_proce ss, NatureDSP_Signal_annotation_bkfir32x32_proce ss, NatureDSP_Signal_annotation_bkfir32x32ep_pro	
			cess, NatureDSP_Signal_annotation_bkfira16x16_process, NatureDSP_Signal_annotation_bkfira24x24_process, NatureDSP_Signal_annotation_bkfira32x16_proc	
			ess, NatureDSP_Signal_annotation_bkfira32x32_process, NatureDSP_Signal_annotation_bkfira32x32ep_process, NatureDSP_Signal_annotation_bkfiraf_process, NatureDSP_Signal_annotation_bkfiraf_process,	
			NatureDSP_Signal_annotation_bkfirf_process, NatureDSP_Signal_annotation_conv2d_11x7_16x1 6, NatureDSP_Signal_annotation_conv2d_11x7_8x16 , NatureDSP_Signal_annotation_conv2d_11x7_8x8,	
			NatureDSP_Signal_annotation_conv2d_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 convol32x1	
			6, NatureDSP_Signal_annotation_cxfir_convola32x 16, NatureDSP_Signal_annotation_cxfir_xcorr32x32 , NatureDSP_Signal_annotation_cxfir_xcorra32x3 2,	
			NatureDSP_Signal_annotation_cxfir_xcorraf, NatureDSP_Signal_annotation_cxfir_xcorrf, NatureDSP_Signal_annotation_cxfir16x16_proce ss, NatureDSP_Signal_annotation_cxfir24x24_proce ss,	
NatureDSP_Signal_fir_id.o		9047	NatureDSP_Signal_annotation_cxfir32x16_proce ss, NatureDSP_Signal_annotation_cxfir32x32_proce ss,	

	Code	Data	Symbols	
Object file	size	size	Global	Referenced
			NatureDSP_Signal_annotation_cxfir32x32ep_pro	
			cess, 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_acorra32x32e	
			p, NatureDSP_Signal_annotation_fir_acorraf,	
			NatureDSP_Signal_annotation_fir_acorrf, NatureDSP Signal annotation fir blms16x16,	
			NatureDSP Signal annotation fir blms16x32,	
			NatureDSP_Signal_annotation_fir_blms24x24,	
			NatureDSP_Signal_annotation_fir_blms32x32,	
			NatureDSP_Signal_annotation_fir_blms32x32ep, NatureDSP_Signal_annotation_fir_blmsf,	
			NatureDSP_Signal_annotation_fir_convol16x16,	
			NatureDSP_Signal_annotation_fir_convol24x24,	
			NatureDSP_Signal_annotation_fir_convol32x16, NatureDSP_Signal_annotation_fir_convol32x32,	
			NatureDSP_Signal_annotation_fir_convol32x32e	
			p, NatureDSP Signal annotation fir convola16x16	
			NatureDSP_Signal_annotation_fir_convolateX16	
			NatureDSP_Signal_annotation_fir_convola24x24	
			NatureDSP_Signal_annotation_fir_convola32x16	
			NatureDSP_Signal_annotation_fir_convola32x32	
			NatureDSP_Signal_annotation_fir_convola32x32 ep,	
			NatureDSP_Signal_annotation_fir_convolaf,	
			NatureDSP_Signal_annotation_fir_convolf, NatureDSP Signal annotation fir lacorral6x16	
			, NatureDSP_Signal_annotation_fir_lacorra32x32	
			, NatureDSP_Signal_annotation_fir_lconvola16x1	
			6, NatureDSP_Signal_annotation_fir_lconvola32x3	
			2, NatureDSP_Signal_annotation_fir_lxcorral6x16	
			, 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_xcorra32x32e	
			p, NatureDSP_Signal_annotation_fir_xcorraf,	
			NatureDSP_Signal_annotation_fir_xcorrf,	
			NatureDSP_Signal_annotation_firdec16x16_proc ess,	
			NatureDSP_Signal_annotation_firdec24x24_proc	
			ess, NatureDSP_Signal_annotation_firdec32x16_proc	
			ess, NatureDSP_Signal_annotation_firdec32x32_proc	
			ess, NatureDSP_Signal_annotation_firdec32x32ep_pr	
			ocess, NatureDSP Signal annotation firdecf process,	
			NatureDSP_Signal_annotation_firinterp16x16_p	
			rocess, NatureDSP_Signal_annotation_firinterp24x24_p	
			rocess,	

	Code	Data	Symbols	
Object file	size	size	Global	Referenced
,			NatureDSP_Signal_annotation_firinterp32x16_p	
			rocess, NatureDSP Signal annotation firinterp32x32 p	
			rocess,	
			NatureDSP_Signal_annotation_firinterp32x32ep	
			_process, NatureDSP_Signal_annotation_firinterpf_proce	
			ss, NatureDSP Signal annotation stereo bkfir16x1	
			6_process,	
			NatureDSP_Signal_annotation_stereo_bkfir32x3	
			<pre>2_process, NatureDSP_Signal_annotation_stereo_bkfirf_pr ocess</pre>	
			NatureDSP_Signal_annotation_vec_poly4_24x24,	
			NatureDSP_Signal_annotation_vec_poly4_32x32,	
			NatureDSP_Signal_annotation_vec_poly4f, NatureDSP Signal annotation vec_poly8 24x24,	
			NatureDSP_Signal_annotation_vec_poly8_32x32,	
NatureDSP_Signal_fit_id.o		250	NatureDSP_Signal_annotation_vec_poly8f  NatureDSP Signal annotation bqciirf df1,	
			NatureDSP_Signal_annotation_bqciirf_df1_nd,	
			NatureDSP Signal annotation bqriir16x16 df1, NatureDSP Signal annotation bqriir16x16 df1	
			natureDSP_Signal_annotation_bqriiri6x16_dfi_ 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_proces s,	
			NatureDSP_Signal_annotation_latr24x24_proces s, NatureDSP Signal annotation latr32x16 proces	
			s,	
			NatureDSP_Signal_annotation_latr32x32_proces s, NatureDSP_Signal_annotation_latrf_process	
			NatureDSP_Signal_annotation_latrf_process, NatureDSP_Signal_annotation_stereo_bqriir16x	
			16_df1,	
			NatureDSP_Signal_annotation_stereo_bqriir16x 16 df1 nd,	
			NatureDSP_Signal_annotation_stereo_bqriir32x	
			16_df1, NatureDSP Signal annotation stereo bqriir32x	
			16_df1_nd,	
			NatureDSP_Signal_annotation_stereo_bqriir32x 32 df1,	
			NatureDSP_Signal_annotation_stereo_bqriir32x 32 df1 nd,	
			NatureDSP_Signal_annotation_stereo_bqriirf_d f1,	
NatureDSP Signal iir id.o		3720	NatureDSP_Signal_annotation_stereo_bqriirf_d f1 nd	
nacarepor_orginar_iff_td.0		2120	NatureDSP_Signal_annotation_scl_antilog10_24	
			x24,	
			NatureDSP_Signal_annotation_scl_antilog10_32 x32,	
			NatureDSP_Signal_annotation_scl_antilog10f,	
NatureDSP Signal math id o		5053	NatureDSP_Signal_annotation_scl_antilog2_24x 24,	
NatureDSP_Signal_math_id.o		5053	44,	

	Code Data		Symbols			
Object file	size	size	Global	Referenced		
			NatureDSP_Signal_annotation_scl_antilog2_32x 32,			
			NatureDSP_Signal_annotation_scl_antilog2f,			
			NatureDSP_Signal_annotation_scl_antilogn_24x 24,			
			NatureDSP_Signal_annotation_scl_antilogn_32x 32,			
			NatureDSP_Signal_annotation_scl_antilognf,			
			NatureDSP_Signal_annotation_scl_atan2_24x24, NatureDSP Signal annotation scl atan24x24,			
			NatureDSP Signal annotation scl atan2f, NatureDSP Signal annotation scl atan32x32,			
			NatureDSP_Signal_annotation_scl_atanf,			
			NatureDSP_Signal_annotation_scl_cosine24x24, NatureDSP_Signal_annotation_scl_cosine32x32,			
			NatureDSP Signal annotation scl cosinef, NatureDSP Signal annotation scl divide16x16,			
			NatureDSP_Signal_annotation_scl_divide24x24,			
			NatureDSP_Signal_annotation_scl_divide32x32, NatureDSP_Signal_annotation_scl_divide64x32,			
			NatureDSP Signal annotation scl divide64x64, NatureDSP Signal annotation scl float2int,			
			NatureDSP_Signal_annotation_scl_int2float,			
			NatureDSP_Signal_annotation_scl_log10_24x24, NatureDSP_Signal_annotation_scl_log10_32x32,			
			NatureDSP Signal annotation scl log10f, NatureDSP Signal 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_24 x24,			
			NatureDSP_Signal_annotation_vec_antilog10_32 x32,			
			NatureDSP_Signal_annotation_vec_antilog10f,			
			NatureDSP_Signal_annotation_vec_antilog2_24x 24,			
			NatureDSP_Signal_annotation_vec_antilog2_32x 32,			
			NatureDSP_Signal_annotation_vec_antilog2f,			
			NatureDSP_Signal_annotation_vec_antilogn_24x 24,			
			NatureDSP_Signal_annotation_vec_antilogn_32x 32,			
			NatureDSP_Signal_annotation_vec_antilognf,			
			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			

	Code Data		Symbols			
Object file	size	size	Global	Referenced		
Object file	Code size	Data size	fast, NatureDSP_Signal_annotation_vec_cosine32x32, NatureDSP_Signal_annotation_vec_cosine32x32_fast, NatureDSP_Signal_annotation_vec_divide16x16, 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_divide24x24_fast, NatureDSP_Signal_annotation_vec_divide32x32_fast, NatureDSP_Signal_annotation_vec_divide32x32_fast, NatureDSP_Signal_annotation_vec_divide64x32i , NatureDSP_Signal_annotation_vec_divide64x32i , NatureDSP_Signal_annotation_vec_float2int, NatureDSP_Signal_annotation_vec_float2int, NatureDSP_Signal_annotation_vec_log10_24x24, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log2_24x24, NatureDSP_Signal_annotation_vec_log2_32x32, NatureDSP_Signal_annotation_vec_log3_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_log10_32x32, NatureDSP_Signal_annotation_vec_pow_32x32, NatureDSP_Signal_annotation_vec_recip16x16, NatureDSP_Signal_annotation_vec_recip24x24, NatureDSP_Signal_annotation_vec_recip24x24, NatureDSP_Signal_annotation_vec_recip64x64, NatureDSP_Signal_annotation_vec_recip64x64, NatureDSP_Signal_annotation_vec_sime0id1, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id1, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32, NatureDSP_Signal_annotation_vec_sime0id2x32,	Referenced		
			NatureDSP_Signal_annotation_vec_sqrt32x32_fast, NatureDSP_Signal_annotation_vec_sqrt64x32, NatureDSP_Signal_annotation_vec_tan24x24, NatureDSP_Signal_annotation_vec_tan32x32, NatureDSP_Signal_annotation_vec_tanf, NatureDSP_Signal_annotation_vec_tanh32x32, NatureDSP_Signal_annotation_vec_tanh62x32, NatureDSP_Signal_annotation_vec_tanh62x32,			
			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 6x6f, NatureDSP_Signal_annotation_cmatcholbkwsubst 8x8 32x32,			
NatureDSP_Signal_matinv_id.o		7820	NatureDSP_Signal_annotation_cmatcholbkwsubst 8x8f, NatureDSP_Signal_annotation_cmatcholdecomp10			

	Code	Data	Symbols			
Object file	size	size	Global	Referenced		
			x10_32x32, NatureDSP_Signal_annotation_cmatcholdecomp10			
			x10f, NatureDSP Signal annotation cmatcholdecomp4x			
			4_32x32, NatureDSP_Signal_annotation_cmatcholdecomp4x			
			4f, NatureDSP Signal annotation cmatcholdecomp6x			
			6_32x32, NatureDSP Signal annotation cmatcholdecomp6x			
			6f,			
			NatureDSP_Signal_annotation_cmatcholdecomp8x 8 32x32,			
			NatureDSP_Signal_annotation_cmatcholdecomp8x 8f,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 10x10_32x32,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 10x10f,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 4x4_32x32,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 4x4f,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 6x6 32x32,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 6x6f,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 8x8 32x32,			
			NatureDSP_Signal_annotation_cmatcholfwdsubst 8x8f,			
			NatureDSP_Signal_annotation_cmatcholmmsesolv er10x10 32x32,			
			NatureDSP_Signal_annotation_cmatcholmmsesolv			
			er10x10f, NatureDSP_Signal_annotation_cmatcholmmsesolv			
			er4x4_32x32, NatureDSP_Signal_annotation_cmatcholmmsesolv			
			er4x4f, NatureDSP_Signal_annotation_cmatcholmmsesolv			
			er6x6_32x32, NatureDSP_Signal_annotation_cmatcholmmsesolv			
			er6x6f, NatureDSP_Signal_annotation_cmatcholmmsesolv			
			er8x8_32x32, NatureDSP Signal annotation cmatcholmmsesolv			
			er8x8f, NatureDSP_Signal_annotation_cmatcholpreproce			
			ss10x10_32x32, NatureDSP Signal annotation cmatcholpreproce			
			ss10x10f, NatureDSP_Signal_annotation_cmatcholpreproce			
			ss4x4_32x32, NatureDSP Signal annotation cmatcholpreproce			
			ss4x4f, NatureDSP Signal annotation cmatcholpreproce			
			ss6x6_32x32,			
			NatureDSP_Signal_annotation_cmatcholpreproce ss6x6f,			
			NatureDSP_Signal_annotation_cmatcholpreproce ss8x8_32x32,			
			NatureDSP_Signal_annotation_cmatcholpreproce ss8x8f,			
			NatureDSP_Signal_annotation_cmatcholpseudoin v10x10_32x32,			
			NatureDSP_Signal_annotation_cmatcholpseudoin v10x10f,			
			NatureDSP_Signal_annotation_cmatcholpseudoin v4x4 32x32,			
			NatureDSP_Signal_annotation_cmatcholpseudoin v4x4f,			
			NatureDSP_Signal_annotation_cmatcholpseudoin v6x6 32x32,			
			NatureDSP_Signal_annotation_cmatcholpseudoin v6x6f,			
			NatureDSP_Signal_annotation_cmatcholpseudoin			
			v8x8_32x32, NatureDSP_Signal_annotation_cmatcholpseudoin			

	Code	Data	Symbols	
Object file	size	size	Global	Referenced
			v8x8f, NatureDSP Signal annotation cmtx gjelim10x10	
			_32x32,	
			NatureDSP_Signal_annotation_cmtx_gjelim2x2_3 2x32,	
			NatureDSP_Signal_annotation_cmtx_gjelim3x3_3 2x32,	
			NatureDSP_Signal_annotation_cmtx_gjelim4x4_3 2x32,	
			NatureDSP_Signal_annotation_cmtx_gjelim6x6_3 2x32,	
			NatureDSP_Signal_annotation_cmtx_gjelim8x8_3 2x32,	
			NatureDSP_Signal_annotation_cmtx_inv10x10_32 x32,	
			NatureDSP_Signal_annotation_cmtx_inv2x2_32x3 2,	
			NatureDSP_Signal_annotation_cmtx_inv3x3_32x3 2,	
			NatureDSP_Signal_annotation_cmtx_inv4x4_32x3	
			2, NatureDSP_Signal_annotation_cmtx_inv6x6_32x3	
			2, NatureDSP_Signal_annotation_cmtx_inv8x8_32x3	
			2, NatureDSP_Signal_annotation_matcholbkwsubst1	
			0x10_32x32, NatureDSP_Signal_annotation_matcholbkwsubst1	
			0x10f, NatureDSP_Signal_annotation_matcholbkwsubst4	
			x4_32x32, NatureDSP_Signal_annotation_matcholbkwsubst4	
			x4f, NatureDSP_Signal_annotation_matcholbkwsubst6	
			x6_32x32, NatureDSP Signal annotation matcholbkwsubst6	
			x6f, NatureDSP Signal annotation matcholbkwsubst8	
			x8_32x32, NatureDSP Signal annotation matcholbkwsubst8	
			x8f, NatureDSP Signal annotation matcholdecomp10x	
			10_32x32,	
			NatureDSP_Signal_annotation_matcholdecomp10x 10f,	
			NatureDSP_Signal_annotation_matcholdecomp4x4 _32x32,	
			NatureDSP_Signal_annotation_matcholdecomp4x4 f,	
			NatureDSP_Signal_annotation_matcholdecomp6x6 _32x32,	
			NatureDSP_Signal_annotation_matcholdecomp6x6 f,	
			NatureDSP_Signal_annotation_matcholdecomp8x8 _32x32,	
			NatureDSP_Signal_annotation_matcholdecomp8x8 f,	
			NatureDSP_Signal_annotation_matcholfwdsubst1 0x10 32x32,	
			NatureDSP_Signal_annotation_matcholfwdsubst1 0x10f,	
			NatureDSP_Signal_annotation_matcholfwdsubst4 x4 32x32,	
			NatureDSP_Signal_annotation_matcholfwdsubst4	
			x4f, NatureDSP_Signal_annotation_matcholfwdsubst6	
			x6_32x32, NatureDSP_Signal_annotation_matcholfwdsubst6	
			x6f, NatureDSP_Signal_annotation_matcholfwdsubst8	
			x8_32x32, NatureDSP_Signal_annotation_matcholfwdsubst8	
			x8f, NatureDSP Signal annotation matcholmmsesolve	
			r10x10_32x32, NatureDSP Signal annotation matcholmmsesolve	
			r10x10f, NatureDSP Signal annotation matcholmmsesolve	
			r4x4_32x32,	

	Code	Data	Symbols		
Object file	size	size	Global	Referenced	
			NatureDSP_Signal_annotation_matcholmmsesolve		
			r4x4f, NatureDSP_Signal_annotation_matcholmmsesolve		
			r6x6_32x32, NatureDSP Signal annotation matcholmmsesolve		
			r6x6f,		
			NatureDSP_Signal_annotation_matcholmmsesolve r8x8_32x32,		
			NatureDSP_Signal_annotation_matcholmmsesolve r8x8f,		
			NatureDSP_Signal_annotation_matcholpreproces		
			s10x10_32x32, NatureDSP_Signal_annotation_matcholpreproces		
			s10x10f, NatureDSP Signal annotation matcholpreproces		
			s4x4_32x32,		
			NatureDSP_Signal_annotation_matcholpreproces s4x4f,		
			NatureDSP_Signal_annotation_matcholpreproces s6x6 32x32,		
			NatureDSP_Signal_annotation_matcholpreproces		
			s6x6f, NatureDSP_Signal_annotation_matcholpreproces		
			88x8_32x32, NatureDSP Signal annotation matcholpreproces		
			s8x8f, NatureDSP Signal annotation matcholpseudoinv		
			10x10_32x32,		
			NatureDSP_Signal_annotation_matcholpseudoinv 10x10f,		
			NatureDSP_Signal_annotation_matcholpseudoinv		
			4x4_32x32, NatureDSP_Signal_annotation_matcholpseudoinv		
			4x4f, NatureDSP Signal annotation matcholpseudoinv		
			6x6_32x32,		
			NatureDSP_Signal_annotation_matcholpseudoinv 6x6f,		
			NatureDSP_Signal_annotation_matcholpseudoinv 8x8 32x32,		
			NatureDSP_Signal_annotation_matcholpseudoinv 8x8f,		
			NatureDSP_Signal_annotation_mtx_gjelim10x10_		
			32x32, NatureDSP Signal annotation mtx gjelim2x2 32		
			x32,		
			NatureDSP_Signal_annotation_mtx_gjelim3x3_32 x32,		
			NatureDSP_Signal_annotation_mtx_gjelim4x4_32 x32,		
			NatureDSP_Signal_annotation_mtx_gjelim6x6_32 x32,		
			NatureDSP_Signal_annotation_mtx_gjelim8x8_32		
			x32, NatureDSP_Signal_annotation_mtx_inv10x10_32x		
			32, NatureDSP Signal annotation mtx inv10x10f,		
			NatureDSP_Signal_annotation_mtx_inv2x2_32x32		
			, NatureDSP_Signal_annotation_mtx_inv2x2f, NatureDSP_Signal_annotation_mtx_inv3x3_32x32		
			, NatureDSP_Signal_annotation_mtx_inv3x3f, NatureDSP_Signal_annotation_mtx_inv4x4_32x32		
			, NatureDSP_Signal_annotation_mtx_inv4x4f,		
			NatureDSP_Signal_annotation_mtx_inv6x6_32x32 , NatureDSP_Signal_annotation_mtx_inv6x6f,		
			NatureDSP Signal_annotation_mtx_inv8x8_32x32 , NatureDSP Signal annotation mtx inv8x8f		
	1		NatureDSP_Signal_annotation_mtx_mpy16x16,		
			NatureDSP_Signal_annotation_mtx_mpy16x16_fas t, NatureDSP_Signal_annotation_mtx_mpy24x24,		
			NatureDSP_Signal_annotation_mtx_mpy24x24_fas t, NatureDSP_Signal_annotation_mtx_mpy32x32,		
			NatureDSP_Signal_annotation_mtx_mpy32x32_fas		
			t, NatureDSP_Signal_annotation_mtx_mpy8x16, NatureDSP_Signal_annotation_mtx_mpy8x16_fast		
			, NatureDSP_Signal_annotation_mtx_mpy8x8, NatureDSP Signal annotation mtx mpy8x8 fast,		
NatureDSP_Signal_matop_id.o		1661			

	Code	Code	Data	Symbols		
Object file	size	size	Global	Referenced		
			NatureDSP_Signal_annotation_mtx_mpyf_fast, NatureDSP_Signal_annotation_mtx_mpyt16x16, NatureDSP_Signal_annotation_mtx_mpyt16x16_fa st, NatureDSP_Signal_annotation_mtx_mpyt32x32, NatureDSP_Signal_annotation_mtx_mpyt32x32_fa st, NatureDSP_Signal_annotation_mtx_mpyt8x16, NatureDSP_Signal_annotation_mtx_mpyt8x16_fas t, NatureDSP_Signal_annotation_mtx_mpyt8x8,			
			NatureDSP_Signal_annotation_mtx_mpyt8x8_fast, NatureDSP_Signal_annotation_mtx_mpytf, NatureDSP_Signal_annotation_mtx_mpytf_fast, NatureDSP_Signal_annotation_mtx_transpose16x 16, NatureDSP_Signal_annotation_mtx_transpose16x 16_fast, NatureDSP_Signal_annotation_mtx_transpose32x 32, NatureDSP_Signal_annotation_mtx_transpose32x			
			32 fast, NatureDSP_Signal_annotation_mtx_transpose8x8 , NatureDSP_Signal_annotation_mtx_transpose8x8 _fast, NatureDSP_Signal_annotation_mtx_transposef, NatureDSP_Signal_annotation_mtx_transposef_f ast, NatureDSP_Signal_annotation_mtx_vecmpy16x16,			
			NatureDSP_Signal_annotation_mtx_vecmpy16x16_fast, NatureDSP_Signal_annotation_mtx_vecmpy24x24, NatureDSP_Signal_annotation_mtx_vecmpy24x24_fast, NatureDSP_Signal_annotation_mtx_vecmpy32x32, NatureDSP_Signal_annotation_mtx_vecmpy32x32_fast, NatureDSP_Signal_annotation_mtx_vecmpy8x16,			
			NatureDSP_Signal_annotation_mtx_vecmpy8x16_f ast, NatureDSP_Signal_annotation_mtx_vecmpy8x8, NatureDSP_Signal_annotation_mtx_vecmpy8x8_fa st, NatureDSP_Signal_annotation_mtx_vecmpyf, NatureDSP_Signal_annotation_mtx_vecmpyf_fast NatureDSP_Signal_annotation_scl_add_32x16ef, NatureDSP_Signal_annotation_scl_add_32x16ef,			
			NatureDSP_Signal_annotation_scl_bexp32, NatureDSP_Signal_annotation_scl_bexpf, NatureDSP_Signal_annotation_scl_mac_32x16ef, NatureDSP_Signal_annotation_scl_mul_32x16ef, NatureDSP_Signal_annotation_vec_add 32x16ef, NatureDSP_Signal_annotation_vec_add16x16, NatureDSP_Signal_annotation_vec_add16x16_fas t, NatureDSP_Signal_annotation_vec_add32x32, NatureDSP_Signal_annotation_vec_add32x32_fas t, NatureDSP_Signal_annotation_vec_addf,			
			NatureDSP Signal annotation vec bexp16, NatureDSP Signal annotation vec bexp16 fast, NatureDSP Signal annotation vec bexp14 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 batch16x 16, NatureDSP Signal annotation vec dot batch16x			
			16_fast, NatureDSP_Signal_annotation_vec_dot_batch8x1 6, NatureDSP_Signal_annotation_vec_dot_batch8x1 6_fast, NatureDSP_Signal_annotation_vec_dot_batch8x8 , NatureDSP_Signal_annotation_vec_dot_batch8x8 fast,			
NatureDSP_Signal_vector_id.o		3363	NatureDSP_Signal_annotation_vec_dot_batchf, NatureDSP_Signal_annotation_vec_dot_batchf_f ast,			

	Codo	Data	Symbols	
Object file	Code size	Data size	Global	Referenced
Object file			NatureDSP_Signal_annotation_vec_dot16x16_fas t, NatureDSP_Signal_annotation_vec_dot32x16_fas t, NatureDSP_Signal_annotation_vec_dot32x32_fas t, NatureDSP_Signal_annotation_vec_dot32x32_fas t, NatureDSP_Signal_annotation_vec_dot64x32_fas t, NatureDSP_Signal_annotation_vec_dot64x32_fas t, NatureDSP_Signal_annotation_vec_dot64x32_fas t, NatureDSP_Signal_annotation_vec_dot64x32_fas t, NatureDSP_Signal_annotation_vec_dot64x64, NatureDSP_Signal_annotation_vec_dot64x64_fas t, NatureDSP_Signal_annotation_vec_dot64x64i, NatureDSP_Signal_annotation_vec_dot64x64i_fa st, NatureDSP_Signal_annotation_vec_mac_32x16ef, NatureDSP_Signal_annotation_vec_mac_32x16ef, NatureDSP_Signal_annotation_vec_max16x16_fas t, NatureDSP_Signal_annotation_vec_max32x32_fas t, NatureDSP_Signal_annotation_vec_max32x32_fas t, NatureDSP_Signal_annotation_vec_min16x16_fas t, NatureDSP_Signal_annotation_vec_min32x32_fas t, NatureDSP_Signal_annotation_vec_scale16x16_fast, NatureDSP_Signal_annotation_vec_scale16x16_fast, NatureDSP_Signal_annotation_vec_scale32x24_fast, NatureDSP_Signal_annotation_vec_scale32x24_fast, NatureDSP_Signal_annotation_vec_scale32x24_fast, NatureDSP_Signal_annotation_vec_scale32x24_fast, NatureDSP_Signal_annotation_vec_scale32x24_fast, NatureDSP_Signal_annotation_vec_scale32x32_fast, NatureDSP_Signal_annotation_vec_scale3	Referenced
NatureDSP_Signal_mfcc_id.o		384	NatureDSP_Signal_annotation_vec_shift16x16_f ast, NatureDSP_Signal_annotation_vec_shift32x32, NatureDSP_Signal_annotation_vec_shift32x32_f ast, NatureDSP_Signal_annotation_vec_shift5 NatureDSP_Signal_annotation_logmel132x32_process, NatureDSP_Signal_annotation_logmelf_process, NatureDSP_Signal_annotation_logmelf_process, NatureDSP_Signal_annotation_mfcc32x32_process, NatureDSP_Signal_annotation_mfccf_process 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_imgdeinterleave, NatureDSP_Signal_annotation_imgfastconvert_rgbyuv, NatureDSP_Signal_annotation_imgfastconvert_rgbyuv16, NatureDSP_Signal_annotation_imgfastconvert_ryuvrgb, NatureDSP_Signal_annotation_imgfastconvert_yuvrgb16, NatureDSP_Signal_annotation_im	
NatureDSP_Signal_img_id.o		2535	NatureDSP_Signal_annotation_imgfastdeinterle ave16, NatureDSP_Signal_annotation_imgfasthist_gs16, NatureDSP_Signal_annotation_imgfasthist_gs8, NatureDSP_Signal_annotation_imgfasthist_gu8,	

	Codo	Data	Symbols	
Object file	Code size	Data size	Global	Referenced
-			NatureDSP_Signal_annotation_imgfastinterleav	
			e, NatureDSP_Signal_annotation_imgfastinterleav	
			e16, 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_gs 16 process,	
			NatureDSP_Signal_annotation_imgfastresize_gs 8_process,	
			NatureDSP_Signal_annotation_imgfastresize_gu 8_process, NatureDSP_Signal_annotation_imgfastrotate_gs	
			NatureDSP_Signal_annotation_imgfastrotate_gs 16_process, NatureDSP_Signal_annotation_imgfastrotate_gs	
			8_process, NatureDSP_Signal_annotation_imgfastrotate_gu	
			<pre>8_process, NatureDSP_Signal_annotation_imgfft_gs16, NatureDSP_Signal_annotation_imgfft_gs8,</pre>	
			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_non linear,	
			NatureDSP_Signal_annotation_imgnorm_gs8, NatureDSP_Signal_annotation_imgnorm_gs8_nonl inear,	
			NatureDSP_Signal_annotation_imgnorm_gu8, NatureDSP_Signal_annotation_imgnorm_gu8_nonl	
			inear, NatureDSP_Signal_annotation_imgpad_gs16,	
			NatureDSP_Signal_annotation_imgpad_gs8, NatureDSP_Signal_annotation_imgpad_gu8,	
			NatureDSP_Signal_annotation_imgresize_gs16_p	
			rocess, NatureDSP_Signal_annotation_imgresize_gs8_pr	
			ocess, NatureDSP Signal annotation imgresize gu8 pr	
			ocess, NatureDSP_Signal_annotation_imgrotate_gs16_p	
			<pre>rocess, NatureDSP_Signal_annotation_imgrotate_gs8_pr ocess,</pre>	
			NatureDSP_Signal_annotation_imgrotate_gu8_process	
			NatureDSP_Signal_feclearexcept, NatureDSP_Signal_feraiseexcept,	
NatureDSP_Signal_fe.o	249		NatureDSP_Signal_fetestexcept	
NatureDSP_Signal_isa_opt.o feature.o	28 10		NatureDSP_Signal_get_isa_opt NatureDSP_Signal_isPresent	
	10			memset,
math_stdlib.o,	2618	68	logmol32v32 allog logmol22v22 init	NatureDSP_Signal_806, NatureDSP_Signal_807, NatureDSP_Signal_809, vec recip32x32
logmel32x32_hifi4.o	2018	08	logmel32x32_alloc, logmel32x32_init	NatureDSP_Signal_010, NatureDSP_Signal_806,
logme132x32_process_hifi4.o	3220	42	logme132x32_getScratchSize, logme132x32_process	NatureDSP_Signal_807, vec_bexp32,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				vec_shift32x32
			NatureDSP_Signal_806, NatureDSP_Signal_807,	
logmel_common_hifi4.o	323		NatureDSP_Signal_809	vec_recip32x32
				memset,
				NatureDSP_Signal_806, NatureDSP Signal 807,
				scl antilog10f,
				scl antilog2f,
				scl int2float,
				scl_log10f, scl_log2f,
logmelf_hifi4.o	1690		logmelf_alloc, logmelf_init	vec_recip32x32
				NatureDSP_Signal_244,
				NatureDSP_Signal_806,
116	2021	4	]16	NatureDSP_Signal_807,
logmelf_process_hifi4.o	2031	4	logmelf_getScratchSize, logmelf_process	vec_log10f, vec_lognf
mfcc32x32 compDctMatrix hifi4				NatureDSP_Signal_816, scl sqrt64x32,
.0	1285		NatureDSP Signal 810	vec recip32x32
mfcc32x32 compLifterCoefs hif	1200			NatureDSP_Signal_816,
i4.0	1072		NatureDSP Signal 811	vec recip32x32
	-			logme132x32 alloc,
				logme132x32 init,
				memset,
				mtx_vecmpy32x32,
				mtx_vecmpy32x32_fast,
6 00 00 11614	700			NatureDSP_Signal_810,
mfcc32x32_hifi4.o mfcc32x32_preemph hifi4.o	789 322		mfcc32x32_alloc, mfcc32x32_init  NatureDSP Signal 814	NatureDSP_Signal_811
mrcc32x32_preempn_nii14.0	322		NatureDSP_Signal_814	logme132x32 getScratchS
				ize,
				logme132x32 process,
				memset,
				NatureDSP_Signal_814,
				NatureDSP_Signal_815,
				NatureDSP_Signal_817,
mfcc32x32_process_hifi4.o	839		<pre>mfcc32x32_getScratchSize, mfcc32x32_process</pre>	vec_shift32x32
mfcc32x32_remdc_hifi4.o	189	100	NatureDSP_Signal_815	vec_recip32x32
mfcc32x32_tbl.o	161	192	NatureDSP_Signal_816	_
mfcc32x32_vecmpy_hifi4.o	84		NatureDSP_Signal_817 mfcc getDefaultParams	memset
MICC_COMMON_HIT14.0	04		micc_getDeraultrarams	NatureDSP Signal 249,
mfccf compDctMatrix hifi4.o	519		NatureDSP Signal 812	scl cosinef
micci_compbecinaciix_niiii.o	313		Nacarebor_brgnar_orz	NatureDSP Signal 249,
mfccf compLifterCoefs hifi4.o	256		NatureDSP Signal 813	scl sinef
				logmelf alloc,
				logmelf init, memset,
				mtx_vecmpyf,
				mtx_vecmpyf_fast,
	50.4			NatureDSP_Signal_812,
mfccf_hifi4.o	734		mfccf_alloc, mfccf_init	NatureDSP_Signal_813
mfccf_preemph_hifi4.o	320		NatureDSP_Signal_818	logmelf getScratchSize,
				logmelf process,
				memset,
				NatureDSP Signal 818,
				NatureDSP Signal 819,
mfccf_process_hifi4.o	722	<u> </u>	mfccf_getScratchSize, mfccf_process	NatureDSP_Signal_820
mfccf_remdc_hifi4.o	843		NatureDSP_Signal_819	
mfccf_vecmpy_hifi4.o	282		NatureDSP_Signal_820	
			NatureDSP_Signal_get_library_api_version,	
version.o	38	11	NatureDSP Signal get library version	strncpy