

# Final Report Tests For Gr-Ecss

**Date:** 2020-02-20 09:27:38

Here are appended all the test results processed automatically

Tests List	Status
add_const_xx	appended
add_xx	appended
debug_func_probe	appended
divide_xx	appended
fixed_point_math	appended
float_to_double	appended
float_to_int64	appended
int_to_int64	appended
integer_math	appended
iqbal_gen	appended
multiply_const_xx	appended
multiply_xx	appended
null_source_sink	appended
selector	appended
sine_debug	appended
snr_estimator	appended
sub_xx	appended
vector_sink_source_double	appended
vector_sink_source_int64	appended

# qa\_add\_const\_xx

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_add\_const\_xx.py

**Checksum test file:** d49fc1cf9d10306bc2e08dca0d790944

**Start Time:** 2020-02-20 09:23:01

**Duration:** 0:00:00

**Status:** Pass: 2

Test name	Stack	Status
test_001_int64_2: add const int64 version with 2 inputs		Pass
test_002_double_2: add const double version with 2 inputs		Pass
Total Tests Run:	Pass: 2	

# qa\_add\_xx

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_add\_xx.py

**Checksum test file:** cfbfff1912e2c6109e144449d21dba0c

**Start Time:** 2020-02-20 09:23:00

**Duration:** 0:00:00

**Status:** Pass: 4

Test name	Stack	Status
test_001_int64_2: add int64 version with 2 inputs		Pass
test_002_double_2: add double version with 2 inputs		Pass
test_003_double_3: add double version with 3 inputs		Pass
test_004_int64_3: add int64 version with 3 inputs		Pass
Total Tests Run:	Pass: 4	

# qa\_debug\_func\_probe

**Path header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/include/flaress/debug\_func\_probe.h

**Checksum header file:** 68f028d338337e5b089c7a767770bfb3

**Path second header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/debug\_func\_probe\_impl.h

**Checksum second header file:** 873cdb0fc9e11a21c31666cdbe27479e

**Path C++ file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/debug\_func\_probe\_impl.cc

**Checksum C++ file:** 9fd2f12788772de9439cb32617189232

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_debug\_func\_probe.py

**Checksum test file:** bbb4ecf6a65a8e021ffb4772c1f5f27b

**Start Time:** 2020-02-20 09:21:38

**Duration:** 0:00:16

**Status:** Pass: 3

Test name	Stack	Status
test_001_t: one set function after 0.5 seconds	-Set function received at the moment: 2.000000 s.	Pass
test_002_t: one set function after 1 second	-Set function received at the moment: 2.000000 s.	Pass
test_003_t: two set function after 1 second and 2 seconds	-Set function received at the moment: 2.000000 s. -Set function received at the moment: 2.000000 s.	Pass
Total Tests Run:	Pass: 3	

# qa\_divide\_xx

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_divide\_xx.py

**Checksum test file:** 5ca0f3d31b126f7ca65a892434512e38

**Start Time:** 2020-02-20 09:23:03

**Duration:** 0:00:00

**Status:** Pass: 2

Test name	Stack	Status
test_001_int64_2: divide int64 version with 2 inputs		Pass
test_002_double_2: divide double version with 2 inputs		Pass
Total Tests Run:	Pass: 2	

# qa\_fixed\_point\_math

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_fixed\_point\_math.py

**Checksum test file:** f59f427d5612557aca766312a78c048f

**Start Time:** 2020-02-20 09:22:25

**Duration:** 0:00:00

**Status:** Pass: 1

Test name	Stack	Status
test_001_t: fractional		Pass
Total Tests Run:	Pass: 1	

# qa\_float\_to\_double

**Path header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/include/flaress/float\_to\_double.h

**Checksum header file:** b846aa505820f1ecd42c7346f0481405

**Path second header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/float\_to\_double\_impl.h

**Checksum second header file:** 9a18bda88e3d8354809ddd66316386e7

**Path C++ file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/float\_to\_double\_impl.cc

**Checksum C++ file:** 96c29287d6eeab2cad63df94c33f7fe9

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_float\_to\_double.py

**Checksum test file:** aa252a342bcced07ce0fc7b14593f3a2

**Start Time:** 2020-02-20 09:20:38

**Duration:** 0:00:00

**Status:** Pass: 5

Test name	Stack	Status
test_001: that sink has data set in source for the simplest case		Pass
test_002: vectors (the gnuradio vector I/O type)		Pass
test_003: sending and receiving tagged streams		Pass
test_004: set_data		Pass
test_005: set_repeat		Pass
Total Tests Run:	Pass: 5	

# qa\_float\_to\_int64

**Path header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/include/flaress/float\_to\_int64.h

**Checksum header file:** f5b11b0dbaa2718be1fbc288b53e4d58

**Path second header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/float\_to\_int64\_impl.h

**Checksum second header file:** c0deaa136ce78a6da9519bd7b5220c5f

**Path C++ file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/float\_to\_int64\_impl.cc

**Checksum C++ file:** 72d3f4f79ac28f2f6bcf4ddb85c5974f

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_float\_to\_int64.py

**Checksum test file:** f2ab91ffbc04dcbef0e59057c234c3b0

**Start Time:** 2020-02-20 09:20:39

**Duration:** 0:00:00

**Status:** Pass: 5

Test name	Stack	Status
test_001: that sink has data set in source for the simplest case		Pass
test_002: vectors (the gnuradio vector I/O type)		Pass
test_003: sending and receiving tagged streams		Pass
test_004: set_data		Pass
test_005: set_repeat		Pass
Total Tests Run:	Pass: 5	



# qa\_int\_to\_int64

**Path header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/include/flaress/int\_to\_int64.h

**Checksum header file:** 43af6dad4dcd506624d8e254e96c561d

**Path second header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/int\_to\_int64\_impl.h

**Checksum second header file:** 9f96f2746fe3a8575c79d0d448a2d542

**Path C++ file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/int\_to\_int64\_impl.cc

**Checksum C++ file:** d80e2de4353c8b8cfc9b8275f0281806

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_int\_to\_int64.py

**Checksum test file:** 4bde1dda701b3c881d68ecb8f7f9bbde

**Start Time:** 2020-02-20 09:22:10

**Duration:** 0:00:00

**Status:** Pass: 5

Test name	Stack	Status
test_001: that sink has data set in source for the simplest case		Pass
test_002: vectors (the gnuradio vector I/O type)		Pass
test_003: sending and receiving tagged streams		Pass
test_004: set_data		Pass
test_005: set_repeat		Pass
Total Tests Run:	Pass: 5	

# qa\_integer\_math

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_integer\_math.py

**Checksum test file:** 3a3516567a96d7f21584755119c57ecc

**Start Time:** 2020-02-20 09:22:26

**Duration:** 0:00:00

**Status:** Pass: 2

Test name	Stack	Status
test_001_t: int input		Pass
test_002_t: long input		Pass
Total Tests Run:	Pass: 2	

qa\_iqbal\_gen

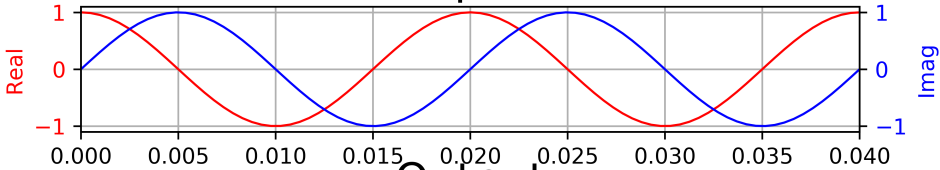
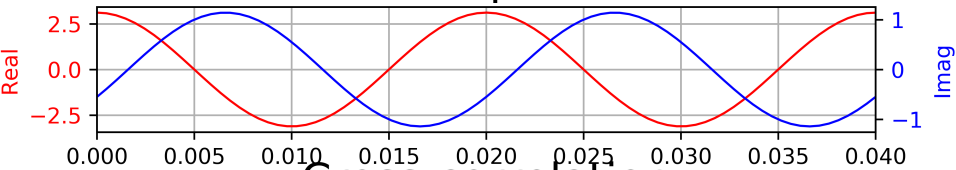
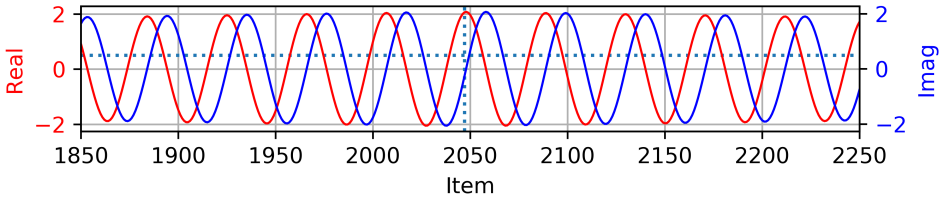
Path header file: NOT FOUND header\_file\_path!  
Checksum header file: NOT FOUND checksum\_header\_file!  
Path second header file: NOT FOUND header\_impl\_file\_path!  
Checksum second header file: NOT FOUNDchecksum\_header\_impl\_file!  
Path C++ file: NOT FOUND cpp\_impl\_file\_path!  
Checksum C++ file: NOT FOUND checksum\_cpp\_impl\_file!  
Path test file: /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_iqbal\_gen.py  
Checksum test file: 29f9577459bc7169efc155e75ca15151

Start Time: 2020-02-20 09:22:13

Duration: 0:00:10

Status: Pass: 2

Test name	Parameters	Stack	Status
test_001_t: without imbalance	Sample rate = 2048 Hz; Input Frequency = 50.000 Hz; Input Amplitude = 1.000 V; Input Offset = 0.000 V; Magnitude Imbalance = 0; Phase Imbalance = 0.000000; Origin = TX		Pass
<div>qa\_iqbal\_gen: test\_001\_t</div> <div><div>Input</div><div>Output</div><div>Cross-correlation</div></div>			

Test name	Parameters	Stack	Status
test_002_t: with imbalance	Sample rate = 2048 Hz; Input Frequency = 50.000 Hz; Input Amplitude = 1.000 V; Input Offset = 0.000 V; Magnitude Imbalance = 10; Phase Imbalance = -10.000000; Origin = TX		Pass
<div>qa\_iqbal\_gen: test\_002\_t</div> <div>Input</div>  <div>Output</div>  <div>Cross-correlation</div> 			

Total Tests Run: Pass: 2

# qa\_multiply\_const\_xx

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_multiply\_const\_xx.py

**Checksum test file:** 2a5059b4adf5720c12b4742f00f00f12

**Start Time:** 2020-02-20 09:26:20

**Duration:** 0:00:00

**Status:** Pass: 2

Test name	Stack	Status
test_001_int64_2: multiply const int64 version with 2 inputs		Pass
test_002_double_2: multiply const double version with 2 inputs		Pass
Total Tests Run:	Pass: 2	

# qa\_multiply\_xx

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_multiply\_xx.py

**Checksum test file:** ad1b92802aca9bf9ffa7b6f1158a90b5

**Start Time:** 2020-02-20 09:26:13

**Duration:** 0:00:00

**Status:** Pass: 4

Test name	Stack	Status
test_001_int64_2: multiply int64 version with 2 inputs		Pass
test_002_double_2: multiply double version with 2 inputs		Pass
test_003_double_3: multiply double version with 3 inputs		Pass
test_004_int64_3: multiply int64 version with 3 inputs		Pass
Total Tests Run:	Pass: 4	

# qa\_null\_source\_sink

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_null\_source\_sink.py

**Checksum test file:** 025da295867dc946d1ab05133e536949

**Start Time:** 2020-02-20 09:21:36

**Duration:** 0:00:00

**Status:** Pass: 7

Test name	Stack	Status
test_001: with Float		Pass
test_002: with Int		Pass
test_003: with Short		Pass
test_004: with Byte		Pass
test_005: with Int64		Pass
test_006: with Float64 (Double)		Pass
test_007: with Complex		Pass
Total Tests Run:	Pass: 7	

# qa\_selector

**Path header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/include/flaress/selector.h

**Checksum header file:** 0626baf45acc6d6884762dff53cf0549

**Path second header file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/selector\_impl.h

**Checksum second header file:** 654f42462dd47cbdc48aee4c75ac856

**Path C++ file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/lib/selector\_impl.cc

**Checksum C++ file:** de06b8116e7a0eac52a7b680fe543b43

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_selector.py

**Checksum test file:** bd10137b2f8f75ef68ddf3a707f1b83

**Start Time:** 2020-02-20 09:20:41

**Duration:** 0:00:53

**Status:** Pass: 4, Fail: 2, Error: 4

Test name	Parameters	Stack	Status
test_001_f: mux float version with 2 inputs	no parameters	(' Items outputted from in0: ', 8192) ( ' Items outputted from in1: ', 4096) ( ' Items lost: ', 0) - Final order of the selector: 1; - Set function received at the moment (of the simulation): 2.00 s;	Pass
test_001_i: mux int version with 2 inputs	no parameters	(' Items outputted from in0: ', 8192) ( ' Items outputted from in1: ', 4096) ( ' Items lost: ', 0) - Final order of the selector: 1; - Set function received at the moment (of the simulation): 2.00 s;	Pass
test_001_c: mux complex version with 2 inputs	no parameters	IndexError tuple index out of range	Error
test_001_d: mux double version with 2 inputs	no parameters	IndexError tuple index out of range	Error
test_001_l: mux int64 version with 2 inputs	no parameters	IndexError tuple index out of range	Error
test_002_c: mux version with 3 inputs	no parameters	IndexError tuple index out of range	Error
test_003_c: demux version with 2 outputs	no parameters	AssertionError 8192 != 0	Fail
test_004_c: demux version with 3 outputs	no parameters	AssertionError 8192 != 0	Fail



Test name	Parameters	Stack	Status
test_005_c: mux complex version in switcher mode	no parameters	(' Items outputted from in: ', 16384) (' Items lost: ', 4095) - Final order of the selector: 0; - First Set function (Turn OFF) received at the moment (of the simulation): 1.00 s; - Second Set function (Turn ON) received at the moment (of the simulation): 2.00 s;	Pass
test_006_c: mux complex version with tagged streams	no parameters	- Tag received properly	Pass
Total Tests Run:	Pass: 4, Fail: 2, Error: 4		

# qa\_sine\_debug

**Path python file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/sine\_debug.py

**Checksum python file:** 3a3a46f9068493793bee0a6eff4a67b1

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_sine\_debug.py

**Checksum test file:** 369be915cbdc0658c42d7355c51f85cf

**Start Time:** 2020-02-20 09:22:56

**Duration:** 0:00:00

**Status:** Pass: 2

Test name	Stack	Status
test_001: with sine wave	1.99996936621 6.10342178858e-05	Pass
test_002: with cossine wave	2.99995419582 0.000137327003596	Pass
Total Tests Run:	Pass: 2	

# qa\_snr\_estimator

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_snr\_estimator.py

**Checksum test file:** 645c519bf9fc2904f668c01ea7bae162

**Start Time:** 2020-02-20 09:22:27

**Duration:** 0:00:28

**Status:** Pass: 3

Test name	Parameters	Stack	Status
test_001_t: CNR with fixed noise bandwidth	no parameters	/pr!Signal amplitude= 1.00 V; Noise amplitude= 1.00 V; f_samp= 32000.0 Hz; f_signal= 2000.0 Hz; Signal Bandwidth = 10.0 Hz; Noise Bandwidth = 2000.0 Hz, FFT size = 4096/pr! (('SNR evaluated with variance:', 12.054033778851945) (('SNR estimated:', 15.1822753414031)	Pass
test_002_t: CNR with all spectrum	no parameters	/pr!Signal amplitude= 1.00 V; Noise amplitude= 1.00 V; f_samp= 32000.0 Hz; f_signal= 2000.0 Hz; Signal Bandwidth = 10.0 Hz; Noise Bandwidth = 2000.0 Hz, FFT size = 4096/pr! (('SNR evaluated variance:', -0.007074140556272292) (('SNR estimated:', -0.012135735570242809)	Pass
test_003_t: SNR with fixed noise bandwidth	no parameters	/pr!Signal amplitude= 1.00 V; Noise amplitude= 1.00 V; f_samp= 32000.0 Hz; f_signal= 2000.0 Hz; Signal Bandwidth = 200.0 Hz; Noise Bandwidth = 2000.0 Hz, FFT size = 4096/pr! (('SNR evaluated variance:', 12.05099845774238) (('SNR estimated:', 15.243180182672315)	Pass
Total Tests Run:	Pass: 3		

## qa\_sub\_xx

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_sub\_xx.py

**Checksum test file:** 721fd7519e0edb8cd6598402ba754182

**Start Time:** 2020-02-20 09:23:01

**Duration:** 0:00:00

**Status:** Pass: 2

Test name	Stack	Status
test_001_int64_2: sub int64 version with 2 inputs		Pass
test_002_double_2: sub double version with 2 inputs		Pass
Total Tests Run:	Pass: 2	

# qa\_vector\_sink\_source\_double

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_vector\_sink\_source\_double.py

**Checksum test file:** e03b4fd485004b3f9e8e4c0bf78e31f7

**Start Time:** 2020-02-20 09:21:35

**Duration:** 0:00:00

**Status:** Pass: 7

Test name	Stack	Status
test_001: that sink has data set in source for the simplest case		Pass
test_002: vectors (the gnuradio vector I/O type)		Pass
test_003: that we can only make vectors (the I/O type) if the input vector has sufficient size		Pass
test_004: sending and receiving tagged streams		Pass
test_005: that repeat works (with tagged streams)		Pass
test_006: set_data		Pass
test_007: set_repeat		Pass
Total Tests Run:	Pass: 7	

# qa\_vector\_sink\_source\_int64

**Path header file:** NOT FOUND header\_file\_path!

**Checksum header file:** NOT FOUND checksum\_header\_file!

**Path second header file:** NOT FOUND header\_impl\_file\_path!

**Checksum second header file:** NOT FOUNDchecksum\_header\_impl\_file!

**Path C++ file:** NOT FOUND cpp\_impl\_file\_path!

**Checksum C++ file:** NOT FOUND checksum\_cpp\_impl\_file!

**Path test file:** /mnt/c/Users/amir/WSL/grc/gr-flaress/python/qa\_vector\_sink\_source\_int64.py

**Checksum test file:** 976064ccdddf703fcac93f9add4c562

**Start Time:** 2020-02-20 09:21:36

**Duration:** 0:00:00

**Status:** Pass: 7

Test name	Stack	Status
test_001: that sink has data set in source for the simplest case		Pass
test_002: vectors (the gnuradio vector I/O type)		Pass
test_003: that we can only make vectors (the I/O type) if the input vector has sufficient size		Pass
test_004: sending and receiving tagged streams		Pass
test_005: that repeat works (with tagged streams)		Pass
test_006: set_data		Pass
test_007: set_repeat		Pass
Total Tests Run:	Pass: 7	