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gnuradio.wavelet

Processing blocks for wavelet transforms.

gnuradio.wavelet.**squash_ff**(*pmt_vector_float igrid*, *pmt_vector_float ogrid*) → squash_ff_sptr

Implements cheap resampling of spectrum directly from spectral points, using gsl interpolation.

Constructor Specific Documentation:

Parameters:
- **igrid** –
- **ogrid** –

squash_ff_sptr.**active_thread_priority**(*squash_ff_sptr self*) → int

squash_ff_sptr.**declare_sample_delay**(*squash_ff_sptr self*, *int which*, *int delay*)

declare_sample_delay(squash_ff_sptr self, unsigned int delay)

squash_ff_sptr.**message_subscribers**(*squash_ff_sptr self*, *swig_int_ptr which_port*) → swig_int_ptr

squash_ff_sptr.**min_noutput_items**(*squash_ff_sptr self*) → int

squash_ff_sptr.**pc_input_buffers_full_avg**(*squash_ff_sptr self*, *int which*) → float

pc_input_buffers_full_avg(squash_ff_sptr self) -> pmt_vector_float

squash_ff_sptr.**pc_noutput_items_avg**(*squash_ff_sptr self*) → float

squash_ff_sptr.**pc_nproduced_avg**(*squash_ff_sptr self*) → float

squash_ff_sptr.**pc_output_buffers_full_avg**(*squash_ff_sptr self*, *int which*) → float

pc_output_buffers_full_avg(squash_ff_sptr self) -> pmt_vector_float

squash_ff_sptr.**pc_throughput_avg**(*squash_ff_sptr self*) → float

squash_ff_sptr.**pc_work_time_avg**(*squash_ff_sptr self*) → float

squash_ff_sptr.**pc_work_time_total**(*squash_ff_sptr self*) → float

squash_ff_sptr.**sample_delay**(*squash_ff_sptr self*, *int which*) → unsigned int

squash_ff_sptr.**set_min_noutput_items**(*squash_ff_sptr self*, *int m*)

squash_ff_sptr.**set_thread_priority**(*squash_ff_sptr self*, *int priority*) → int

squash_ff_sptr.**thread_priority**(*squash_ff_sptr self*) → int

gnuradio.wavelet.**wavelet_ff**(*int size=1024*, *int order=20*, *bool forward=True*) → wavelet_ff_sptr

Compute wavelet transform using gsl routines.

Constructor Specific Documentation:

Parameters:
- **size** –
- **order** –
- **forward** –

wavelet_ff_sptr.**active_thread_priority**(*wavelet_ff_sptr self*) → int

wavelet_ff_sptr.**declare_sample_delay**(*wavelet_ff_sptr self*, *int which*, *int delay*)

declare_sample_delay(wavelet_ff_sptr self, unsigned int delay)

wavelet_ff_sptr.**message_subscribers**(*wavelet_ff_sptr self*, *swig_int_ptr which_port*) → swig_int_ptr

wavelet_ff_sptr.**min_noutput_items**(*wavelet_ff_sptr self*) → int

wavelet_ff_sptr.**pc_input_buffers_full_avg**(*wavelet_ff_sptr self*, *int which*) → float

pc_input_buffers_full_avg(wavelet_ff_sptr self) -> pmt_vector_float

wavelet_ff_sptr.**pc_noutput_items_avg**(*wavelet_ff_sptr self*) → float

wavelet_ff_sptr.**pc_nproduced_avg**(*wavelet_ff_sptr self*) → float

wavelet_ff_sptr.**pc_output_buffers_full_avg**(*wavelet_ff_sptr self*, *int which*) → float

pc_output_buffers_full_avg(wavelet_ff_sptr self) -> pmt_vector_float

wavelet_ff_sptr.**pc_throughput_avg**(*wavelet_ff_sptr self*) → float

wavelet_ff_sptr.**pc_work_time_avg**(*wavelet_ff_sptr self*) → float

wavelet_ff_sptr.**pc_work_time_total**(*wavelet_ff_sptr self*) → float

wavelet_ff_sptr.**sample_delay**(*wavelet_ff_sptr self*, *int which*) → unsigned int

wavelet_ff_sptr.**set_min_noutput_items**(*wavelet_ff_sptr self*, *int m*)

wavelet_ff_sptr.**set_thread_priority**(*wavelet_ff_sptr self*, *int priority*) → int

wavelet_ff_sptr.**thread_priority**(*wavelet_ff_sptr self*) → int

gnuradio.wavelet.**wvps_ff**(*int ilen*) → wvps_ff_sptr

computes the Wavelet Power Spectrum from a set of wavelet coefficients

Constructor Specific Documentation:

Parameters: **ilen** –

wvps_ff_sptr.**active_thread_priority**(*wvps_ff_sptr self*) → int

wvps_ff_sptr.**declare_sample_delay**(*wvps_ff_sptr self*, *int which*, *int delay*)

declare_sample_delay(wvps_ff_sptr self, unsigned int delay)

wvps_ff_sptr.**message_subscribers**(*wvps_ff_sptr self*, *swig_int_ptr which_port*) → swig_int_ptr

wvps_ff_sptr.**min_noutput_items**(*wvps_ff_sptr self*) → int

wvps_ff_sptr.**pc_input_buffers_full_avg**(*wvps_ff_sptr self*, *int which*) → float

pc_input_buffers_full_avg(wvps_ff_sptr self) -> pmt_vector_float

wvps_ff_sptr.**pc_noutput_items_avg**(*wvps_ff_sptr self*) → float

wvps_ff_sptr.**pc_nproduced_avg**(*wvps_ff_sptr self*) → float

wvps_ff_sptr.**pc_output_buffers_full_avg**(*wvps_ff_sptr self*, *int which*) → float

pc_output_buffers_full_avg(wvps_ff_sptr self) -> pmt_vector_float

wvps_ff_sptr.**pc_throughput_avg**(*wvps_ff_sptr self*) → float

wvps_ff_sptr.**pc_work_time_avg**(*wps_ff_sptr self*) → float

wvps_ff_sptr.**pc_work_time_total**(*wps_ff_sptr self*) → float

wvps_ff_sptr.**sample_delay**(*wps_ff_sptr self*, *int which*) → unsigned int

wvps_ff_sptr.**set_min_noutput_items**(*wps_ff_sptr self*, *int m*)

wvps_ff_sptr.**set_thread_priority**(*wps_ff_sptr self*, *int priority*) → int

wvps_ff_sptr.**thread_priority**(*wps_ff_sptr self*) → int