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# gnuradio.trellis

Blocks and utilities for trellis coding and related.

`gnuradio.trellis.constellation_metrics_cf(gr::digital::constellation_sptr constellation, gr::digital::trellis_metric_type_t TYPE) → constellation_metrics_cf_sptr`

Evaluate metrics for use by the Viterbi algorithm.

Constructor Specific Documentation:

**Parameters:** • **constellation** –

• **TYPE** –

`constellation_metrics_cf_sptr.active_thread_priority(constellation_metrics_cf_sptr self) → int`

`constellation_metrics_cf_sptr.declare_sample_delay(constellation_metrics_cf_sptr self, int which, int delay)`

`declare_sample_delay(constellation_metrics_cf_sptr self, unsigned int delay)`

`constellation_metrics_cf_sptr.message_subscribers(constellation_metrics_cf_sptr self, swig_int_ptr which_port) → swig_int_ptr`

`constellation_metrics_cf_sptr.min_noutput_items(constellation_metrics_cf_sptr self) → int`

`constellation_metrics_cf_sptr.pc_input_buffers_full_avg(constellation_metrics_cf_sptr self, int which) → float`

`pc_input_buffers_full_avg(constellation_metrics_cf_sptr self) → pmt_vector_float`

`constellation_metrics_cf_sptr.pc_noutput_items_avg(constellation_metrics_cf_sptr self) → float`

`constellation_metrics_cf_sptr.pc_nproduced_avg(constellation_metrics_cf_sptr self) → float`

`constellation_metrics_cf_sptr.pc_output_buffers_full_avg(constellation_metrics_cf_sptr self, int which) → float`

`pc_output_buffers_full_avg(constellation_metrics_cf_sptr self) → pmt_vector_float`

`constellation_metrics_cf_sptr.pc_throughput_avg(constellation_metrics_cf_sptr self) → float`

`constellation_metrics_cf_sptr.pc_work_time_avg(constellation_metrics_cf_sptr self) → float`

`constellation_metrics_cf_sptr.pc_work_time_total(constellation_metrics_cf_sptr self) → float`

`constellation_metrics_cf_sptr.sample_delay(constellation_metrics_cf_sptr self, int which) → unsigned int`

`constellation_metrics_cf_sptr.set_min_noutput_items(constellation_metrics_cf_sptr self, int m)`

`constellation_metrics_cf_sptr.set_thread_priority(constellation_metrics_cf_sptr self, int priority) → int`

`constellation_metrics_cf_sptr.thread_priority(constellation_metrics_cf_sptr self) → int`

`gnuradio.trellis.encoder_bb(fsm FSM, int ST) → encoder_bb_sptr`

`make(fsm FSM, int ST, int K) → encoder_bb_sptr`

Convolutional encoder.

Constructor Specific Documentation:

**Parameters:** • **FSM** –

• **ST** –

`encoder_bb_sptr.FSM(encoder_bb_sptr self) → fsm`

`encoder_bb_sptr.K(encoder_bb_sptr self) → int`

```

encoder_bb_sptr.ST(encoder_bb_sptr self) → int
encoder_bb_sptr.active_thread_priority(encoder_bb_sptr self) → int
encoder_bb_sptr.declare_sample_delay(encoder_bb_sptr self, int which, int delay)
    declare_sample_delay(encoder_bb_sptr self, unsigned int delay)

encoder_bb_sptr.message_subscribers(encoder_bb_sptr self, swig_int_ptr which_port) →
    swig_int_ptr

encoder_bb_sptr.min_noutput_items(encoder_bb_sptr self) → int
encoder_bb_sptr.pc_input_buffers_full_avg(encoder_bb_sptr self, int which) → float
    pc_input_buffers_full_avg(encoder_bb_sptr self) -> pmt_vector_float

encoder_bb_sptr.pc_noutput_items_avg(encoder_bb_sptr self) → float
encoder_bb_sptr.pc_nproduced_avg(encoder_bb_sptr self) → float
encoder_bb_sptr.pc_output_buffers_full_avg(encoder_bb_sptr self, int which) → float
    pc_output_buffers_full_avg(encoder_bb_sptr self) -> pmt_vector_float

encoder_bb_sptr.pc_throughput_avg(encoder_bb_sptr self) → float
encoder_bb_sptr.pc_work_time_avg(encoder_bb_sptr self) → float
encoder_bb_sptr.pc_work_time_total(encoder_bb_sptr self) → float
encoder_bb_sptr.sample_delay(encoder_bb_sptr self, int which) → unsigned int
encoder_bb_sptr.set_FSM(encoder_bb_sptr self, fsm FSM)
encoder_bb_sptr.set_K(encoder_bb_sptr self, int K)
encoder_bb_sptr.set_ST(encoder_bb_sptr self, int ST)
encoder_bb_sptr.set_min_noutput_items(encoder_bb_sptr self, int m)
encoder_bb_sptr.set_thread_priority(encoder_bb_sptr self, int priority) → int
encoder_bb_sptr.thread_priority(encoder_bb_sptr self) → int

gnuradio.trellis.encoder_bi(fsm FSM, int ST) → encoder_bi_sptr
make(fsm FSM, int ST, int K) -> encoder_bi_sptr

Convolutional encoder.

Constructor Specific Documentation:

Parameters: • FSM –
• ST –

```

encoder\_bi\_sptr.**FSM**(encoder\_bi\_sptr self) → fsm

encoder\_bi\_sptr.**K**(encoder\_bi\_sptr self) → int

encoder\_bi\_sptr.**ST**(encoder\_bi\_sptr self) → int

encoder\_bi\_sptr.**active\_thread\_priority**(encoder\_bi\_sptr self) → int

encoder\_bi\_sptr.**declare\_sample\_delay**(encoder\_bi\_sptr self, int which, int delay)
 declare\_sample\_delay(encoder\_bi\_sptr self, unsigned int delay)

encoder\_bi\_sptr.**message\_subscribers**(encoder\_bi\_sptr self, swig\_int\_ptr which\_port) →
 swig\_int\_ptr

encoder\_bi\_sptr.**min\_noutput\_items**(encoder\_bi\_sptr self) → int

encoder\_bi\_sptr.**pc\_input\_buffers\_full\_avg**(encoder\_bi\_sptr self, int which) → float
 pc\_input\_buffers\_full\_avg(encoder\_bi\_sptr self) -> pmt\_vector\_float

encoder\_bi\_sptr.**pc\_noutput\_items\_avg**(encoder\_bi\_sptr self) → float

```

encoder_bi_sptr.pc_nproduced_avg(encoder_bi_sptr self) → float
encoder_bi_sptr.pc_output_buffers_full_avg(encoder_bi_sptr self, int which) → float
    pc_output_buffers_full_avg(encoder_bi_sptr self) -> pmt_vector_float

encoder_bi_sptr.pc_throughput_avg(encoder_bi_sptr self) → float
encoder_bi_sptr.pc_work_time_avg(encoder_bi_sptr self) → float
encoder_bi_sptr.pc_work_time_total(encoder_bi_sptr self) → float
encoder_bi_sptr.sample_delay(encoder_bi_sptr self, int which) → unsigned int
encoder_bi_sptr.set_fsm(encoder_bi_sptr self, fsm FSM)
encoder_bi_sptr.set_K(encoder_bi_sptr self, int K)
encoder_bi_sptr.set_ST(encoder_bi_sptr self, int ST)
encoder_bi_sptr.set_min_noutput_items(encoder_bi_sptr self, int m)
encoder_bi_sptr.set_thread_priority(encoder_bi_sptr self, int priority) → int
encoder_bi_sptr.thread_priority(encoder_bi_sptr self) → int

gnuradio.trellis.encoder_bs(fsm FSM, int ST) → encoder_bs_sptr
make(fsm FSM, int ST, int K) -> encoder_bs_sptr

Convolutional encoder.

Constructor Specific Documentation:

Parameters: • FSM –
              • ST –

encoder_bs_sptr.FSM(encoder_bs_sptr self) → fsm
encoder_bs_sptr.K(encoder_bs_sptr self) → int
encoder_bs_sptr.ST(encoder_bs_sptr self) → int
encoder_bs_sptr.active_thread_priority(encoder_bs_sptr self) → int
encoder_bs_sptr.declare_sample_delay(encoder_bs_sptr self, int which, int delay)
    declare_sample_delay(encoder_bs_sptr self, unsigned int delay)

encoder_bs_sptr.message_subscribers(encoder_bs_sptr self, swig_int_ptr which_port) →
swig_int_ptr

encoder_bs_sptr.min_noutput_items(encoder_bs_sptr self) → int
encoder_bs_sptr.pc_input_buffers_full_avg(encoder_bs_sptr self, int which) → float
    pc_input_buffers_full_avg(encoder_bs_sptr self) -> pmt_vector_float
encoder_bs_sptr.pc_noutput_items_avg(encoder_bs_sptr self) → float
encoder_bs_sptr.pc_nproduced_avg(encoder_bs_sptr self) → float
encoder_bs_sptr.pc_output_buffers_full_avg(encoder_bs_sptr self, int which) → float
    pc_output_buffers_full_avg(encoder_bs_sptr self) -> pmt_vector_float
encoder_bs_sptr.pc_throughput_avg(encoder_bs_sptr self) → float
encoder_bs_sptr.pc_work_time_avg(encoder_bs_sptr self) → float
encoder_bs_sptr.pc_work_time_total(encoder_bs_sptr self) → float
encoder_bs_sptr.sample_delay(encoder_bs_sptr self, int which) → unsigned int
encoder_bs_sptr.set_fsm(encoder_bs_sptr self, fsm FSM)
encoder_bs_sptr.set_K(encoder_bs_sptr self, int K)
encoder_bs_sptr.set_ST(encoder_bs_sptr self, int ST)

```

```
encoder_bs_sptr.set_min_noutput_items(encoder_bs_sptr self, int m)
encoder_bs_sptr.set_thread_priority(encoder_bs_sptr self, int priority) → int
encoder_bs_sptr.thread_priority(encoder_bs_sptr self) → int

gnuradio.trellis.encoder_ii(fsm FSM, int ST) → encoder_ii_sptr
make(fsm FSM, int ST, int K) -> encoder_ii_sptr
```

Convolutional encoder.

Constructor Specific Documentation:

**Parameters:** • **FSM** –  
• **ST** –

```
encoder_ii_sptr.FSM(encoder_ii_sptr self) → fsm
encoder_ii_sptr.K(encoder_ii_sptr self) → int
encoder_ii_sptr.ST(encoder_ii_sptr self) → int
encoder_ii_sptr.active_thread_priority(encoder_ii_sptr self) → int
encoder_ii_sptr.declare_sample_delay(encoder_ii_sptr self, int which, int delay)
declare_sample_delay(encoder_ii_sptr self, unsigned int delay)

encoder_ii_sptr.message_subscribers(encoder_ii_sptr self, swig_int_ptr which_port) →
swig_int_ptr

encoder_ii_sptr.min_noutput_items(encoder_ii_sptr self) → int
encoder_ii_sptr.pc_input_buffers_full_avg(encoder_ii_sptr self, int which) → float
pc_input_buffers_full_avg(encoder_ii_sptr self) -> pmt_vector_float

encoder_ii_sptr.pc_noutput_items_avg(encoder_ii_sptr self) → float
encoder_ii_sptr.pc_nproduced_avg(encoder_ii_sptr self) → float
encoder_ii_sptr.pc_output_buffers_full_avg(encoder_ii_sptr self, int which) → float
pc_output_buffers_full_avg(encoder_ii_sptr self) -> pmt_vector_float

encoder_ii_sptr.pc_throughput_avg(encoder_ii_sptr self) → float
encoder_ii_sptr.pc_work_time_avg(encoder_ii_sptr self) → float
encoder_ii_sptr.pc_work_time_total(encoder_ii_sptr self) → float
encoder_ii_sptr.sample_delay(encoder_ii_sptr self, int which) → unsigned int

encoder_ii_sptr.set_FSM(encoder_ii_sptr self, fsm FSM)
encoder_ii_sptr.set_K(encoder_ii_sptr self, int K)
encoder_ii_sptr.set_ST(encoder_ii_sptr self, int ST)
encoder_ii_sptr.set_min_noutput_items(encoder_ii_sptr self, int m)
encoder_ii_sptr.set_thread_priority(encoder_ii_sptr self, int priority) → int
encoder_ii_sptr.thread_priority(encoder_ii_sptr self) → int

gnuradio.trellis.encoder_si(fsm FSM, int ST) → encoder_si_sptr
make(fsm FSM, int ST, int K) -> encoder_si_sptr

Convolutional encoder.

Constructor Specific Documentation:
```

**Parameters:** • **FSM** –  
• **ST** –

```
encoder_si_sptr.FSM(encoder_si_sptr self) → fsm
```

```

encoder_si_sptr.K(encoder_si_sptr self) → int
encoder_si_sptr.ST(encoder_si_sptr self) → int
encoder_si_sptr.active_thread_priority(encoder_si_sptr self) → int
encoder_si_sptr.declare_sample_delay(encoder_si_sptr self, int which, int delay)
    declare_sample_delay(encoder_si_sptr self, unsigned int delay)

encoder_si_sptr.message_subscribers(encoder_si_sptr self, swig_int_ptr which_port) →
    swig_int_ptr

encoder_si_sptr.min_noutput_items(encoder_si_sptr self) → int
encoder_si_sptr.pc_input_buffers_full_avg(encoder_si_sptr self, int which) → float
    pc_input_buffers_full_avg(encoder_si_sptr self) -> pmt_vector_float

encoder_si_sptr.pc_noutput_items_avg(encoder_si_sptr self) → float
encoder_si_sptr.pc_nproduced_avg(encoder_si_sptr self) → float

encoder_si_sptr.pc_output_buffers_full_avg(encoder_si_sptr self, int which) → float
    pc_output_buffers_full_avg(encoder_si_sptr self) -> pmt_vector_float

encoder_si_sptr.pc_throughput_avg(encoder_si_sptr self) → float
encoder_si_sptr.pc_work_time_avg(encoder_si_sptr self) → float
encoder_si_sptr.pc_work_time_total(encoder_si_sptr self) → float

encoder_si_sptr.sample_delay(encoder_si_sptr self, int which) → unsigned int
encoder_si_sptr.set_FSM(encoder_si_sptr self, fsm FSM)
encoder_si_sptr.set_K(encoder_si_sptr self, int K)
encoder_si_sptr.set_ST(encoder_si_sptr self, int ST)
encoder_si_sptr.set_min_noutput_items(encoder_si_sptr self, int m)
encoder_si_sptr.set_thread_priority(encoder_si_sptr self, int priority) → int
encoder_si_sptr.thread_priority(encoder_si_sptr self) → int

gnuradio.trellis.encoder_ss(fsm FSM, int ST) → encoder_ss_sptr
make(fsm FSM, int ST, int K) -> encoder_ss_sptr

Convolutional encoder.

Constructor Specific Documentation:

Parameters: • FSM –
• ST –

```

encoder\_ss\_sptr.**FSM**(encoder\_ss\_sptr self) → fsm

encoder\_ss\_sptr.**K**(encoder\_ss\_sptr self) → int

encoder\_ss\_sptr.**ST**(encoder\_ss\_sptr self) → int

encoder\_ss\_sptr.**active\_thread\_priority**(encoder\_ss\_sptr self) → int

encoder\_ss\_sptr.**declare\_sample\_delay**(encoder\_ss\_sptr self, int which, int delay)
 declare\_sample\_delay(encoder\_ss\_sptr self, unsigned int delay)

encoder\_ss\_sptr.**message\_subscribers**(encoder\_ss\_sptr self, swig\_int\_ptr which\_port) →
 swig\_int\_ptr

encoder\_ss\_sptr.**min\_noutput\_items**(encoder\_ss\_sptr self) → int

encoder\_ss\_sptr.**pc\_input\_buffers\_full\_avg**(encoder\_ss\_sptr self, int which) → float
 pc\_input\_buffers\_full\_avg(encoder\_ss\_sptr self) -> pmt\_vector\_float

```

encoder_ss_sptr.pc_noutput_items_avg(encoder_ss_sptr self) → float
encoder_ss_sptr.pc_nproduced_avg(encoder_ss_sptr self) → float
encoder_ss_sptr.pc_output_buffers_full_avg(encoder_ss_sptr self, int which) → float
    pc_output_buffers_full_avg(encoder_ss_sptr self) -> pmt_vector_float

encoder_ss_sptr.pc_throughput_avg(encoder_ss_sptr self) → float
encoder_ss_sptr.pc_work_time_avg(encoder_ss_sptr self) → float
encoder_ss_sptr.pc_work_time_total(encoder_ss_sptr self) → float
encoder_ss_sptr.sample_delay(encoder_ss_sptr self, int which) → unsigned int
encoder_ss_sptr.set_FSM(encoder_ss_sptr self, fsm FSM)
encoder_ss_sptr.set_K(encoder_ss_sptr self, int K)
encoder_ss_sptr.set_ST(encoder_ss_sptr self, int ST)
encoder_ss_sptr.set_min_noutput_items(encoder_ss_sptr self, int m)
encoder_ss_sptr.set_thread_priority(encoder_ss_sptr self, int priority) → int
encoder_ss_sptr.thread_priority(encoder_ss_sptr self) → int

```

`gnuradio.trellis.metrics_c(int O, int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t TYPE)` → metrics\_c\_sptr

Evaluate metrics for use by the Viterbi algorithm.

Constructor Specific Documentation:

**Parameters:**

- **O** –
- **D** –
- **TABLE** –
- **TYPE** –

```

metrics_c_sptr.D(metrics_c_sptr self) → int
metrics_c_sptr.O(metrics_c_sptr self) → int
metrics_c_sptr.TABLE(metrics_c_sptr self) → pmt_vector_cfloat
metrics_c_sptr.TYPE(metrics_c_sptr self) → gr::digital::trellis_metric_type_t
metrics_c_sptr.active_thread_priority(metrics_c_sptr self) → int
metrics_c_sptr.declare_sample_delay(metrics_c_sptr self, int which, int delay)
    declare_sample_delay(metrics_c_sptr self, unsigned int delay)

metrics_c_sptr.message_subscribers(metrics_c_sptr self, swig_int_ptr which_port) →
    swig_int_ptr

metrics_c_sptr.min_noutput_items(metrics_c_sptr self) → int
metrics_c_sptr.pc_input_buffers_full_avg(metrics_c_sptr self, int which) → float
    pc_input_buffers_full_avg(metrics_c_sptr self) -> pmt_vector_float

metrics_c_sptr.pc_noutput_items_avg(metrics_c_sptr self) → float
metrics_c_sptr.pc_nproduced_avg(metrics_c_sptr self) → float
metrics_c_sptr.pc_output_buffers_full_avg(metrics_c_sptr self, int which) → float
    pc_output_buffers_full_avg(metrics_c_sptr self) -> pmt_vector_float

metrics_c_sptr.pc_throughput_avg(metrics_c_sptr self) → float
metrics_c_sptr.pc_work_time_avg(metrics_c_sptr self) → float
metrics_c_sptr.pc_work_time_total(metrics_c_sptr self) → float
metrics_c_sptr.sample_delay(metrics_c_sptr self, int which) → unsigned int

```

```

metrics_c_sptr.set_D(metrics_c_sptr self, int D)

metrics_c_sptr.set_O(metrics_c_sptr self, int O)

metrics_c_sptr.set_TABLE(metrics_c_sptr self, pmt_vector_cfloat table)

metrics_c_sptr.set_TYPE(metrics_c_sptr self, gr::digital::trellis_metric_type_t type)

metrics_c_sptr.set_min_noutput_items(metrics_c_sptr self, int m)

metrics_c_sptr.set_thread_priority(metrics_c_sptr self, int priority) → int

metrics_c_sptr.thread_priority(metrics_c_sptr self) → int

gnuradio.trellis.metrics_f(int O, int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t
TYPE) → metrics_f_sptr

```

Evaluate metrics for use by the Viterbi algorithm.

Constructor Specific Documentation:

**Parameters:**

- **O** –
- **D** –
- **TABLE** –
- **TYPE** –

```

metrics_f_sptr.D(metrics_f_sptr self) → int

metrics_f_sptr.O(metrics_f_sptr self) → int

metrics_f_sptr.TABLE(metrics_f_sptr self) → pmt_vector_float

metrics_f_sptr.TYPE(metrics_f_sptr self) → gr::digital::trellis_metric_type_t

metrics_f_sptr.active_thread_priority(metrics_f_sptr self) → int

metrics_f_sptr.declare_sample_delay(metrics_f_sptr self, int which, int delay)
    declare_sample_delay(metrics_f_sptr self, unsigned int delay)

metrics_f_sptr.message_subscribers(metrics_f_sptr self, swig_int_ptr which_port) →
swig_int_ptr

metrics_f_sptr.min_noutput_items(metrics_f_sptr self) → int

metrics_f_sptr.pc_input_buffers_full_avg(metrics_f_sptr self, int which) → float
    pc_input_buffers_full_avg(metrics_f_sptr self) → pmt_vector_float

metrics_f_sptr.pc_noutput_items_avg(metrics_f_sptr self) → float

metrics_f_sptr.pc_nproduced_avg(metrics_f_sptr self) → float

metrics_f_sptr.pc_output_buffers_full_avg(metrics_f_sptr self, int which) → float
    pc_output_buffers_full_avg(metrics_f_sptr self) → pmt_vector_float

metrics_f_sptr.pc_throughput_avg(metrics_f_sptr self) → float

metrics_f_sptr.pc_work_time_avg(metrics_f_sptr self) → float

metrics_f_sptr.pc_work_time_total(metrics_f_sptr self) → float

metrics_f_sptr.sample_delay(metrics_f_sptr self, int which) → unsigned int

metrics_f_sptr.set_D(metrics_f_sptr self, int D)

metrics_f_sptr.set_O(metrics_f_sptr self, int O)

metrics_f_sptr.set_TABLE(metrics_f_sptr self, pmt_vector_float table)

metrics_f_sptr.set_TYPE(metrics_f_sptr self, gr::digital::trellis_metric_type_t type)

metrics_f_sptr.set_min_noutput_items(metrics_f_sptr self, int m)

metrics_f_sptr.set_thread_priority(metrics_f_sptr self, int priority) → int

```

```

metrics_f_sptr.thread_priority(metrics_f_sptr self) → int

gnuradio.trellis.metrics_i(int O, int D, std::vector<int, std::allocator<int>> const & TABLE,
gr::digital::trellis_metric_type_t TYPE) → metrics_i_sptr
Evaluate metrics for use by the Viterbi algorithm.

Constructor Specific Documentation:

Parameters: • O –
• D –
• TABLE –
• TYPE –

metrics_i_sptr.D(metrics_i_sptr self) → int

metrics_i_sptr.O(metrics_i_sptr self) → int

metrics_i_sptr.TABLE(metrics_i_sptr self) → std::vector<int, std::allocator<int>>

metrics_i_sptr.TYPE(metrics_i_sptr self) → gr::digital::trellis_metric_type_t

metrics_i_sptr.active_thread_priority(metrics_i_sptr self) → int

metrics_i_sptr.declare_sample_delay(metrics_i_sptr self, int which, int delay)
declare_sample_delay(metrics_i_sptr self, unsigned int delay)

metrics_i_sptr.message_subscribers(metrics_i_sptr self, swig_int_ptr which_port) →
swig_int_ptr

metrics_i_sptr.min_noutput_items(metrics_i_sptr self) → int

metrics_i_sptr.pc_input_buffers_full_avg(metrics_i_sptr self, int which) → float
pc_input_buffers_full_avg(metrics_i_sptr self) -> pmt_vector_float

metrics_i_sptr.pc_noutput_items_avg(metrics_i_sptr self) → float

metrics_i_sptr.pc_nproduced_avg(metrics_i_sptr self) → float

metrics_i_sptr.pc_output_buffers_full_avg(metrics_i_sptr self, int which) → float
pc_output_buffers_full_avg(metrics_i_sptr self) -> pmt_vector_float

metrics_i_sptr.pc_throughput_avg(metrics_i_sptr self) → float

metrics_i_sptr.pc_work_time_avg(metrics_i_sptr self) → float

metrics_i_sptr.pc_work_time_total(metrics_i_sptr self) → float

metrics_i_sptr.sample_delay(metrics_i_sptr self, int which) → unsigned int

metrics_i_sptr.set_D(metrics_i_sptr self, int D)

metrics_i_sptr.set_O(metrics_i_sptr self, int O)

metrics_i_sptr.set_TABLE(metrics_i_sptr self, std::vector<int, std::allocator<int>> const &
table)

metrics_i_sptr.set_TYPE(metrics_i_sptr self, gr::digital::trellis_metric_type_t type)

metrics_i_sptr.set_min_noutput_items(metrics_i_sptr self, int m)

metrics_i_sptr.set_thread_priority(metrics_i_sptr self, int priority) → int

metrics_i_sptr.thread_priority(metrics_i_sptr self) → int

gnuradio.trellis.metrics_s(int O, int D, std::vector<short, std::allocator<short>> const & TABLE,
gr::digital::trellis_metric_type_t TYPE) → metrics_s_sptr
Evaluate metrics for use by the Viterbi algorithm.

Constructor Specific Documentation:

```

**Parameters:**

- **O** –
- **D** –
- **TABLE** –
- **TYPE** –

```

metrics_s_sptr.D(metrics_s_sptr self) → int
metrics_s_sptr.O(metrics_s_sptr self) → int
metrics_s_sptr.TABLE(metrics_s_sptr self) → std::vector< short, std::allocator< short > >
metrics_s_sptr.TYPE(metrics_s_sptr self) → gr::digital::trellis_metric_type_t
metrics_s_sptr.active_thread_priority(metrics_s_sptr self) → int
metrics_s_sptr.declare_sample_delay(metrics_s_sptr self, int which, int delay)
    declare_sample_delay(metrics_s_sptr self, unsigned int delay)

metrics_s_sptr.message_subscribers(metrics_s_sptr self, swig_int_ptr which_port) →
    swig_int_ptr

metrics_s_sptr.min_noutput_items(metrics_s_sptr self) → int
metrics_s_sptr.pc_input_buffers_full_avg(metrics_s_sptr self, int which) → float
    pc_input_buffers_full_avg(metrics_s_sptr self) -> pmt_vector_float

metrics_s_sptr.pc_noutput_items_avg(metrics_s_sptr self) → float
metrics_s_sptr.pc_nproduced_avg(metrics_s_sptr self) → float

metrics_s_sptr.pc_output_buffers_full_avg(metrics_s_sptr self, int which) → float
    pc_output_buffers_full_avg(metrics_s_sptr self) -> pmt_vector_float

metrics_s_sptr.pc_throughput_avg(metrics_s_sptr self) → float
metrics_s_sptr.pc_work_time_avg(metrics_s_sptr self) → float
metrics_s_sptr.pc_work_time_total(metrics_s_sptr self) → float
metrics_s_sptr.sample_delay(metrics_s_sptr self, int which) → unsigned int
metrics_s_sptr.set_D(metrics_s_sptr self, int D)
metrics_s_sptr.set_O(metrics_s_sptr self, int O)

metrics_s_sptr.set_TABLE(metrics_s_sptr self, std::vector< short, std::allocator< short > > const & table)

metrics_s_sptr.set_TYPE(metrics_s_sptr self, gr::digital::trellis_metric_type_t type)
metrics_s_sptr.set_min_noutput_items(metrics_s_sptr self, int m)
metrics_s_sptr.set_thread_priority(metrics_s_sptr self, int priority) → int
metrics_s_sptr.thread_priority(metrics_s_sptr self) → int

```

gnuradio.trellis.**pccc\_decoder\_b**(fsm FSM1, int ST10, int ST1K, fsm FSM2, int ST20, int ST2K,  
 interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso\_type\_t SISO\_TYPE) →  
 pccc\_decoder\_b\_sptr

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST10** –
- **ST1K** –
- **FSM2** –
- **ST20** –
- **ST2K** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –

```

pccc_decoder_b_sptr.FSM1(pccc_decoder_b_sptr self) → fsm
pccc_decoder_b_sptr.FSM2(pccc_decoder_b_sptr self) → fsm
pccc_decoder_b_sptr.INTERLEAVER(pccc_decoder_b_sptr self) → interleaver
pccc_decoder_b_sptr.SISO_TYPE(pccc_decoder_b_sptr self) → gr::trellis::siso_type_t
pccc_decoder_b_sptr.ST10(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.ST1K(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.ST20(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.ST2K(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.active_thread_priority(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.blocklength(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.declare_sample_delay(pccc_decoder_b_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_b_sptr self, unsigned int delay)
pccc_decoder_b_sptr.message_subscribers(pccc_decoder_b_sptr self, swig_int_ptr which_port)
    → swig_int_ptr
pccc_decoder_b_sptr.min_noutput_items(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.pc_input_buffers_full_avg(pccc_decoder_b_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_b_sptr self) → pmt_vector_float
pccc_decoder_b_sptr.pc_noutput_items_avg(pccc_decoder_b_sptr self) → float
pccc_decoder_b_sptr.pc_nproduced_avg(pccc_decoder_b_sptr self) → float
pccc_decoder_b_sptr.pc_output_buffers_full_avg(pccc_decoder_b_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_b_sptr self) → pmt_vector_float
pccc_decoder_b_sptr.pc_throughput_avg(pccc_decoder_b_sptr self) → float
pccc_decoder_b_sptr.pc_work_time_avg(pccc_decoder_b_sptr self) → float
pccc_decoder_b_sptr.pc_work_time_total(pccc_decoder_b_sptr self) → float
pccc_decoder_b_sptr.repetitions(pccc_decoder_b_sptr self) → int
pccc_decoder_b_sptr.sample_delay(pccc_decoder_b_sptr self, int which) → unsigned int
pccc_decoder_b_sptr.set_min_noutput_items(pccc_decoder_b_sptr self, int m)
pccc_decoder_b_sptr.set_thread_priority(pccc_decoder_b_sptr self, int priority) → int
pccc_decoder_b_sptr.thread_priority(pccc_decoder_b_sptr self) → int

```

`gnuradio.trellis.pccc_decoder_combined_cb(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE, int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) → pccc_decoder_combined_cb_sptr`

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```
pccc_decoder_combined_cb_sptr.D(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.FSM1(pccc_decoder_combined_cb_sptr self) → fsm  
pccc_decoder_combined_cb_sptr.FSM2(pccc_decoder_combined_cb_sptr self) → fsm  
pccc_decoder_combined_cb_sptr.INTERLEAVER(pccc_decoder_combined_cb_sptr self) → interleaver  
pccc_decoder_combined_cb_sptr.METRIC_TYPE(pccc_decoder_combined_cb_sptr self) → gr:digital::trellis_metric_type_t  
pccc_decoder_combined_cb_sptr.SISO_TYPE(pccc_decoder_combined_cb_sptr self) → gr:trellis::siso_type_t  
pccc_decoder_combined_cb_sptr.ST10(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.ST1K(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.ST20(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.ST2K(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.TABLE(pccc_decoder_combined_cb_sptr self) → pmt_vector_cfloat  
pccc_decoder_combined_cb_sptr.active_thread_priority(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.blocklength(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.declare_sample_delay(pccc_decoder_combined_cb_sptr self, int which, int delay)  
    declare_sample_delay(pccc_decoder_combined_cb_sptr self, unsigned int delay)  
pccc_decoder_combined_cb_sptr.message_subscribers(pccc_decoder_combined_cb_sptr self, swig_int_ptr which_port) → swig_int_ptr  
pccc_decoder_combined_cb_sptr.min_noutput_items(pccc_decoder_combined_cb_sptr self) → int  
pccc_decoder_combined_cb_sptr.pc_input_buffers_full_avg(pccc_decoder_combined_cb_sptr self, int which) → float  
    pc_input_buffers_full_avg(pccc_decoder_combined_cb_sptr self) -> pmt_vector_float  
pccc_decoder_combined_cb_sptr.pc_noutput_items_avg(pccc_decoder_combined_cb_sptr self) → float  
pccc_decoder_combined_cb_sptr.pc_nproduced_avg(pccc_decoder_combined_cb_sptr self) → float  
pccc_decoder_combined_cb_sptr.pc_output_buffers_full_avg(pccc_decoder_combined_cb_sptr self, int which) → float  
    pc_output_buffers_full_avg(pccc_decoder_combined_cb_sptr self) -> pmt_vector_float  
pccc_decoder_combined_cb_sptr.pc_throughput_avg(pccc_decoder_combined_cb_sptr self) →
```

```

float pccc_decoder_combined_cb_sptr.pc_work_time_avg(pccc_decoder_combined_cb_sptr self) → float
float pccc_decoder_combined_cb_sptr.pc_work_time_total(pccc_decoder_combined_cb_sptr self) → float
int pccc_decoder_combined_cb_sptr.repetitions(pccc_decoder_combined_cb_sptr self) → int
unsigned int pccc_decoder_combined_cb_sptr.sample_delay(pccc_decoder_combined_cb_sptr self, int which) → unsigned int
float pccc_decoder_combined_cb_sptr.scaling(pccc_decoder_combined_cb_sptr self) → float
pccc_decoder_combined_cb_sptr.set_min_noutput_items(pccc_decoder_combined_cb_sptr self, int m) → int
pccc_decoder_combined_cb_sptr.set_scaling(pccc_decoder_combined_cb_sptr self, float scaling) → int
pccc_decoder_combined_cb_sptr.set_thread_priority(pccc_decoder_combined_cb_sptr self, int priority) → int
pccc_decoder_combined_cb_sptr.thread_priority(pccc_decoder_combined_cb_sptr self) → int

```

`gnuradio.trellis.pccc_decoder_combined_ci(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK, interleaver INTERLEAYER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE, int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling)` → pccc\_decoder\_combined\_ci\_sptr

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAYER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```

pccc_decoder_combined_ci_sptr.D(pccc_decoder_combined_ci_sptr self) → int
pccc_decoder_combined_ci_sptr.FSM1(pccc_decoder_combined_ci_sptr self) → fsm
pccc_decoder_combined_ci_sptr.FSM2(pccc_decoder_combined_ci_sptr self) → fsm
pccc_decoder_combined_ci_sptr.INTERLEAYER(pccc_decoder_combined_ci_sptr self) → interleaver
pccc_decoder_combined_ci_sptr.METRIC_TYPE(pccc_decoder_combined_ci_sptr self) → gr::digital::trellis_metric_type_t
pccc_decoder_combined_ci_sptr.SISO_TYPE(pccc_decoder_combined_ci_sptr self) → gr::trellis::siso_type_t
pccc_decoder_combined_ci_sptr.ST10(pccc_decoder_combined_ci_sptr self) → int
pccc_decoder_combined_ci_sptr.ST1K(pccc_decoder_combined_ci_sptr self) → int
pccc_decoder_combined_ci_sptr.ST20(pccc_decoder_combined_ci_sptr self) → int
pccc_decoder_combined_ci_sptr.ST2K(pccc_decoder_combined_ci_sptr self) → int
pccc_decoder_combined_ci_sptr.TABLE(pccc_decoder_combined_ci_sptr self) → pmt_vector_cfloat

```

```

pccc_decoder_combined_ci_sptr.active_thread_priority(pccc_decoder_combined_ci_sptr self) → int

pccc_decoder_combined_ci_sptr.blocklength(pccc_decoder_combined_ci_sptr self) → int

pccc_decoder_combined_ci_sptr.declare_sample_delay(pccc_decoder_combined_ci_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_combined_ci_sptr self, unsigned int delay)

pccc_decoder_combined_ci_sptr.message_subscribers(pccc_decoder_combined_ci_sptr self, swig_int_ptr which_port) → swig_int_ptr

pccc_decoder_combined_ci_sptr.min_noutput_items(pccc_decoder_combined_ci_sptr self) → int

pccc_decoder_combined_ci_sptr.pc_input_buffers_full_avg(pccc_decoder_combined_ci_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_combined_ci_sptr self) -> pmt_vector_float

pccc_decoder_combined_ci_sptr.pc_noutput_items_avg(pccc_decoder_combined_ci_sptr self) → float

pccc_decoder_combined_ci_sptr.pc_nproduced_avg(pccc_decoder_combined_ci_sptr self) → float

pccc_decoder_combined_ci_sptr.pc_output_buffers_full_avg(pccc_decoder_combined_ci_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_combined_ci_sptr self) -> pmt_vector_float

pccc_decoder_combined_ci_sptr.pc_throughput_avg(pccc_decoder_combined_ci_sptr self) → float

pccc_decoder_combined_ci_sptr.pc_work_time_avg(pccc_decoder_combined_ci_sptr self) → float

pccc_decoder_combined_ci_sptr.pc_work_time_total(pccc_decoder_combined_ci_sptr self) → float

pccc_decoder_combined_ci_sptr.repetitions(pccc_decoder_combined_ci_sptr self) → int

pccc_decoder_combined_ci_sptr.sample_delay(pccc_decoder_combined_ci_sptr self, int which) → unsigned int

pccc_decoder_combined_ci_sptr.scaling(pccc_decoder_combined_ci_sptr self) → float

pccc_decoder_combined_ci_sptr.set_min_noutput_items(pccc_decoder_combined_ci_sptr self, int m)

pccc_decoder_combined_ci_sptr.set_scaling(pccc_decoder_combined_ci_sptr self, float scaling)

pccc_decoder_combined_ci_sptr.set_thread_priority(pccc_decoder_combined_ci_sptr self, int priority) → int

pccc_decoder_combined_ci_sptr.thread_priority(pccc_decoder_combined_ci_sptr self) → int

gnuradio.trellis.pccc_decoder_combined_cs(fsm FSMo, int SToO, int SToK, fsm FSMi, int STiO, int STiK, interleaveINTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE, int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) → pccc_decoder_combined_cs_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```
pccc_decoder_combined_cs_sptr.D(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.FSM1(pccc_decoder_combined_cs_sptr self) → fsm
pccc_decoder_combined_cs_sptr.FSM2(pccc_decoder_combined_cs_sptr self) → fsm
pccc_decoder_combined_cs_sptr.INTERLEAVER(pccc_decoder_combined_cs_sptr self) → interleaver
pccc_decoder_combined_cs_sptr.METRIC_TYPE(pccc_decoder_combined_cs_sptr self) → gr::digital::trellis_metric_type_t
pccc_decoder_combined_cs_sptr.SISO_TYPE(pccc_decoder_combined_cs_sptr self) → gr::trellis::siso_type_t
pccc_decoder_combined_cs_sptr.ST10(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.ST1K(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.ST20(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.ST2K(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.TABLE(pccc_decoder_combined_cs_sptr self) → pmt_vector_cfloat
pccc_decoder_combined_cs_sptr.active_thread_priority(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.blocklength(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.declare_sample_delay(pccc_decoder_combined_cs_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_combined_cs_sptr self, unsigned int delay)
pccc_decoder_combined_cs_sptr.message_subscribers(pccc_decoder_combined_cs_sptr self, swig_int_ptr which_port) → swig_int_ptr
pccc_decoder_combined_cs_sptr.min_noutput_items(pccc_decoder_combined_cs_sptr self) → int
pccc_decoder_combined_cs_sptr.pc_input_buffers_full_avg(pccc_decoder_combined_cs_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_combined_cs_sptr self) -> pmt_vector_float
pccc_decoder_combined_cs_sptr.pc_noutput_items_avg(pccc_decoder_combined_cs_sptr self) → float
pccc_decoder_combined_cs_sptr.pc_nproduced_avg(pccc_decoder_combined_cs_sptr self) → float
pccc_decoder_combined_cs_sptr.pc_output_buffers_full_avg(pccc_decoder_combined_cs_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_combined_cs_sptr self) -> pmt_vector_float
pccc_decoder_combined_cs_sptr.pc_throughput_avg(pccc_decoder_combined_cs_sptr self) → float
```

```

pccc_decoder_combined_cs_sptr.pc_work_time_avg(pccc_decoder_combined_cs_sptr self) → float

pccc_decoder_combined_cs_sptr.pc_work_time_total(pccc_decoder_combined_cs_sptr self) → float

pccc_decoder_combined_cs_sptr.repetitions(pccc_decoder_combined_cs_sptr self) → int

pccc_decoder_combined_cs_sptr.sample_delay(pccc_decoder_combined_cs_sptr self, int which) → unsigned int

pccc_decoder_combined_cs_sptr.scaling(pccc_decoder_combined_cs_sptr self) → float

pccc_decoder_combined_cs_sptr.set_min_noutput_items(pccc_decoder_combined_cs_sptr self, int m)

pccc_decoder_combined_cs_sptr.set_scaling(pccc_decoder_combined_cs_sptr self, float scaling)

pccc_decoder_combined_cs_sptr.set_thread_priority(pccc_decoder_combined_cs_sptr self, int priority) → int

pccc_decoder_combined_cs_sptr.thread_priority(pccc_decoder_combined_cs_sptr self) → int

```

`gnuradio.trellis.pccc_decoder_combined_fb(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE, int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) → pccc_decoder_combined_fb_sptr`

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```

pccc_decoder_combined_fb_sptr.D(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.FSM1(pccc_decoder_combined_fb_sptr self) → fsm

pccc_decoder_combined_fb_sptr.FSM2(pccc_decoder_combined_fb_sptr self) → fsm

pccc_decoder_combined_fb_sptr.INTERLEAVER(pccc_decoder_combined_fb_sptr self) → interleaver

pccc_decoder_combined_fb_sptr.METRIC_TYPE(pccc_decoder_combined_fb_sptr self) → gr::digital::trellis_metric_type_t

pccc_decoder_combined_fb_sptr.SISO_TYPE(pccc_decoder_combined_fb_sptr self) → gr::trellis::siso_type_t

pccc_decoder_combined_fb_sptr.ST10(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.ST1K(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.ST20(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.ST2K(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.TABLE(pccc_decoder_combined_fb_sptr self) → pmt_vector_float

pccc_decoder_combined_fb_sptr.active_thread_priority(pccc_decoder_combined_fb_sptr

```

```

self) → int

pccc_decoder_combined_fb_sptr.blocklength(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.declare_sample_delay(pccc_decoder_combined_fb_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_combined_fb_sptr self, unsigned int delay)

pccc_decoder_combined_fb_sptr.message_subscribers(pccc_decoder_combined_fb_sptr self, swig_int_ptr which_port) → swig_int_ptr

pccc_decoder_combined_fb_sptr.min_noutput_items(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.pc_input_buffers_full_avg(pccc_decoder_combined_fb_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_combined_fb_sptr self) -> pmt_vector_float

pccc_decoder_combined_fb_sptr.pc_noutput_items_avg(pccc_decoder_combined_fb_sptr self) → float

pccc_decoder_combined_fb_sptr.pc_nproduced_avg(pccc_decoder_combined_fb_sptr self) → float

pccc_decoder_combined_fb_sptr.pc_output_buffers_full_avg(pccc_decoder_combined_fb_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_combined_fb_sptr self) -> pmt_vector_float

pccc_decoder_combined_fb_sptr.pc_throughput_avg(pccc_decoder_combined_fb_sptr self) → float

pccc_decoder_combined_fb_sptr.pc_work_time_avg(pccc_decoder_combined_fb_sptr self) → float

pccc_decoder_combined_fb_sptr.pc_work_time_total(pccc_decoder_combined_fb_sptr self) → float

pccc_decoder_combined_fb_sptr.repetitions(pccc_decoder_combined_fb_sptr self) → int

pccc_decoder_combined_fb_sptr.sample_delay(pccc_decoder_combined_fb_sptr self, int which) → unsigned int

pccc_decoder_combined_fb_sptr.scaling(pccc_decoder_combined_fb_sptr self) → float

pccc_decoder_combined_fb_sptr.set_min_noutput_items(pccc_decoder_combined_fb_sptr self, int m)

pccc_decoder_combined_fb_sptr.set_scaling(pccc_decoder_combined_fb_sptr self, float scaling)

pccc_decoder_combined_fb_sptr.set_thread_priority(pccc_decoder_combined_fb_sptr self, int priority) → int

pccc_decoder_combined_fb_sptr.thread_priority(pccc_decoder_combined_fb_sptr self) → int

gnuradio.trellis.pccc_decoder_combined_fi(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::iso_type_t SISO_TYPE, int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) → pccc_decoder_combined_fi_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```
pccc_decoder_combined_fi_sptr.D(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.FSM1(pccc_decoder_combined_fi_sptr self) → fsm
pccc_decoder_combined_fi_sptr.FSM2(pccc_decoder_combined_fi_sptr self) → fsm
pccc_decoder_combined_fi_sptr.INTERLEAVER(pccc_decoder_combined_fi_sptr self) → interleaver
pccc_decoder_combined_fi_sptr.METRIC_TYPE(pccc_decoder_combined_fi_sptr self) → gr::digital::trellis_metric_type_t
pccc_decoder_combined_fi_sptr.SISO_TYPE(pccc_decoder_combined_fi_sptr self) → gr::trellis::siso_type_t
pccc_decoder_combined_fi_sptr.ST10(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.ST1K(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.ST20(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.ST2K(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.TABLE(pccc_decoder_combined_fi_sptr self) → pmt_vector_float
pccc_decoder_combined_fi_sptr.active_thread_priority(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.blocklength(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.declare_sample_delay(pccc_decoder_combined_fi_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_combined_fi_sptr self, unsigned int delay)
pccc_decoder_combined_fi_sptr.message_subscribers(pccc_decoder_combined_fi_sptr self, swig_int_ptr which_port) → swig_int_ptr
pccc_decoder_combined_fi_sptr.min_noutput_items(pccc_decoder_combined_fi_sptr self) → int
pccc_decoder_combined_fi_sptr.pc_input_buffers_full_avg(pccc_decoder_combined_fi_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_combined_fi_sptr self) → pmt_vector_float
pccc_decoder_combined_fi_sptr.pc_noutput_items_avg(pccc_decoder_combined_fi_sptr self) → float
pccc_decoder_combined_fi_sptr.pc_nproduced_avg(pccc_decoder_combined_fi_sptr self) → float
pccc_decoder_combined_fi_sptr.pc_output_buffers_full_avg(pccc_decoder_combined_fi_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_combined_fi_sptr self) → pmt_vector_float
pccc_decoder_combined_fi_sptr.pc_throughput_avg(pccc_decoder_combined_fi_sptr self) → float
```

```

pccc_decoder_combined_fi_sptr.pc_work_time_avg(pccc_decoder_combined_fi_sptr self) →
float

pccc_decoder_combined_fi_sptr.pc_work_time_total(pccc_decoder_combined_fi_sptr self) →
float

pccc_decoder_combined_fi_sptr.repetitions(pccc_decoder_combined_fi_sptr self) → int

pccc_decoder_combined_fi_sptr.sample_delay(pccc_decoder_combined_fi_sptr self, int which) →
unsigned int

pccc_decoder_combined_fi_sptr.scaling(pccc_decoder_combined_fi_sptr self) → float

pccc_decoder_combined_fi_sptr.set_min_noutput_items(pccc_decoder_combined_fi_sptr self,
int m)

pccc_decoder_combined_fi_sptr.set_scaling(pccc_decoder_combined_fi_sptr self, float
scaling)

pccc_decoder_combined_fi_sptr.set_thread_priority(pccc_decoder_combined_fi_sptr self, int
priority) → int

pccc_decoder_combined_fi_sptr.thread_priority(pccc_decoder_combined_fi_sptr self) → int

gnuradio.trellis.pccc_decoder_combined_fs(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0,
int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE,
int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) →
pccc_decoder_combined_fs_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```

pccc_decoder_combined_fs_sptr.D(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.FSM1(pccc_decoder_combined_fs_sptr self) → fsm

pccc_decoder_combined_fs_sptr.FSM2(pccc_decoder_combined_fs_sptr self) → fsm

pccc_decoder_combined_fs_sptr.INTERLEAVER(pccc_decoder_combined_fs_sptr self) →
interleaver

pccc_decoder_combined_fs_sptr.METRIC_TYPE(pccc_decoder_combined_fs_sptr self) →
gr::digital::trellis_metric_type_t

pccc_decoder_combined_fs_sptr.SISO_TYPE(pccc_decoder_combined_fs_sptr self) →
gr::trellis::siso_type_t

pccc_decoder_combined_fs_sptr.ST10(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.ST1K(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.ST20(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.ST2K(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.TABLE(pccc_decoder_combined_fs_sptr self) → pmt_vector_float

pccc_decoder_combined_fs_sptr.active_thread_priority(pccc_decoder_combined_fs_sptr
self) → int

```

```

pccc_decoder_combined_fs_sptr.blocklength(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.declare_sample_delay(pccc_decoder_combined_fs_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_combined_fs_sptr self, unsigned int delay)

pccc_decoder_combined_fs_sptr.message_subscribers(pccc_decoder_combined_fs_sptr self, swig_int_ptr which_port) → swig_int_ptr

pccc_decoder_combined_fs_sptr.min_noutput_items(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.pc_input_buffers_full_avg(pccc_decoder_combined_fs_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_combined_fs_sptr self) -> pmt_vector_float

pccc_decoder_combined_fs_sptr.pc_noutput_items_avg(pccc_decoder_combined_fs_sptr self) → float

pccc_decoder_combined_fs_sptr.pc_nproduced_avg(pccc_decoder_combined_fs_sptr self) → float

pccc_decoder_combined_fs_sptr.pc_output_buffers_full_avg(pccc_decoder_combined_fs_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_combined_fs_sptr self) -> pmt_vector_float

pccc_decoder_combined_fs_sptr.pc_throughput_avg(pccc_decoder_combined_fs_sptr self) → float

pccc_decoder_combined_fs_sptr.pc_work_time_avg(pccc_decoder_combined_fs_sptr self) → float

pccc_decoder_combined_fs_sptr.pc_work_time_total(pccc_decoder_combined_fs_sptr self) → float

pccc_decoder_combined_fs_sptr.repetitions(pccc_decoder_combined_fs_sptr self) → int

pccc_decoder_combined_fs_sptr.sample_delay(pccc_decoder_combined_fs_sptr self, int which) → unsigned int

pccc_decoder_combined_fs_sptr.scaling(pccc_decoder_combined_fs_sptr self) → float

pccc_decoder_combined_fs_sptr.set_min_noutput_items(pccc_decoder_combined_fs_sptr self, int m)

pccc_decoder_combined_fs_sptr.set_scaling(pccc_decoder_combined_fs_sptr self, float scaling)

pccc_decoder_combined_fs_sptr.set_thread_priority(pccc_decoder_combined_fs_sptr self, int priority) → int

pccc_decoder_combined_fs_sptr.thread_priority(pccc_decoder_combined_fs_sptr self) → int

```

`gnuradio.trellis.pccc_decoder_i(fsm FSM1, int ST10, int ST1K, fsm FSM2, int ST20, int ST2K, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::iso_type_t SISO_TYPE) → pccc_decoder_i_sptr`

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST10** –
- **ST1K** –
- **FSM2** –
- **ST20** –
- **ST2K** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –

`pccc_decoder_i_sptr.FSM1(pccc_decoder_i_sptr self) → fsm`

```

pccc_decoder_i_sptr.FSM2(pccc_decoder_i_sptr self) → fsm
pccc_decoder_i_sptr.INTERLEAVER(pccc_decoder_i_sptr self) → interleaver
pccc_decoder_i_sptr.SISO_TYPE(pccc_decoder_i_sptr self) → gr::trellis::siso_type_t
pccc_decoder_i_sptr.ST10(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.ST1K(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.ST20(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.ST2K(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.active_thread_priority(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.blocklength(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.declare_sample_delay(pccc_decoder_i_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_i_sptr self, unsigned int delay)
pccc_decoder_i_sptr.message_subscribers(pccc_decoder_i_sptr self, swig_int_ptr which_port)
    → swig_int_ptr
pccc_decoder_i_sptr.min_noutput_items(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.pc_input_buffers_full_avg(pccc_decoder_i_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_i_sptr self) -> pmt_vector_float
pccc_decoder_i_sptr.pc_noutput_items_avg(pccc_decoder_i_sptr self) → float
pccc_decoder_i_sptr.pc_nproduced_avg(pccc_decoder_i_sptr self) → float
pccc_decoder_i_sptr.pc_output_buffers_full_avg(pccc_decoder_i_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_i_sptr self) -> pmt_vector_float
pccc_decoder_i_sptr.pc_throughput_avg(pccc_decoder_i_sptr self) → float
pccc_decoder_i_sptr.pc_work_time_avg(pccc_decoder_i_sptr self) → float
pccc_decoder_i_sptr.pc_work_time_total(pccc_decoder_i_sptr self) → float
pccc_decoder_i_sptr.repetitions(pccc_decoder_i_sptr self) → int
pccc_decoder_i_sptr.sample_delay(pccc_decoder_i_sptr self, int which) → unsigned int
pccc_decoder_i_sptr.set_min_noutput_items(pccc_decoder_i_sptr self, int m)
pccc_decoder_i_sptr.set_thread_priority(pccc_decoder_i_sptr self, int priority) → int
pccc_decoder_i_sptr.thread_priority(pccc_decoder_i_sptr self) → int

```

`gnuradio.trellis.pccc_decoder_s(fsm FSM1, int ST10, int ST1K, fsm FSM2, int ST20, int ST2K, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE) → pccc_decoder_s_sptr`

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST10** –
- **ST1K** –
- **FSM2** –
- **ST20** –
- **ST2K** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –

`pccc_decoder_s_sptr.FSM1(pccc_decoder_s_sptr self) → fsm`

```

pccc_decoder_s_sptr.FSM2(pccc_decoder_s_sptr self) → fsm
pccc_decoder_s_sptr.INTERLEAVER(pccc_decoder_s_sptr self) → interleaver
pccc_decoder_s_sptr.SISO_TYPE(pccc_decoder_s_sptr self) → gr::trellis::siso_type_t
pccc_decoder_s_sptr.ST10(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.ST1K(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.ST20(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.ST2K(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.active_thread_priority(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.blocklength(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.declare_sample_delay(pccc_decoder_s_sptr self, int which, int delay)
    declare_sample_delay(pccc_decoder_s_sptr self, unsigned int delay)
pccc_decoder_s_sptr.message_subscribers(pccc_decoder_s_sptr self, swig_int_ptr which_port)
    → swig_int_ptr
pccc_decoder_s_sptr.min_noutput_items(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.pc_input_buffers_full_avg(pccc_decoder_s_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_decoder_s_sptr self) → pmt_vector_float
pccc_decoder_s_sptr.pc_noutput_items_avg(pccc_decoder_s_sptr self) → float
pccc_decoder_s_sptr.pc_nproduced_avg(pccc_decoder_s_sptr self) → float
pccc_decoder_s_sptr.pc_output_buffers_full_avg(pccc_decoder_s_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_decoder_s_sptr self) → pmt_vector_float
pccc_decoder_s_sptr.pc_throughput_avg(pccc_decoder_s_sptr self) → float
pccc_decoder_s_sptr.pc_work_time_avg(pccc_decoder_s_sptr self) → float
pccc_decoder_s_sptr.pc_work_time_total(pccc_decoder_s_sptr self) → float
pccc_decoder_s_sptr.repetitions(pccc_decoder_s_sptr self) → int
pccc_decoder_s_sptr.sample_delay(pccc_decoder_s_sptr self, int which) → unsigned int
pccc_decoder_s_sptr.set_min_noutput_items(pccc_decoder_s_sptr self, int m)
pccc_decoder_s_sptr.set_thread_priority(pccc_decoder_s_sptr self, int priority) → int
pccc_decoder_s_sptr.thread_priority(pccc_decoder_s_sptr self) → int
gnuradio.trellis.pccc_encoder_bb(fsm FSM1, int ST1, fsm FSM2, int ST2, interleaver
INTERLEAVER, int blocklength) → pccc_encoder_bb_sptr
PCCC encoder.

```

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST1** –
- **FSM2** –
- **ST2** –
- **INTERLEAVER** –
- **blocklength** –

```
pccc_encoder_bb_sptr.FSM1(pccc_encoder_bb_sptr self) → fsm
```

```
pccc_encoder_bb_sptr.FSM2(pccc_encoder_bb_sptr self) → fsm
```

```
pccc_encoder_bb_sptr.INTERLEAVER(pccc_encoder_bb_sptr self) → interleaver
```

```

pccc_encoder_bb_sptr.ST1(pccc_encoder_bb_sptr self) → int
pccc_encoder_bb_sptr.ST2(pccc_encoder_bb_sptr self) → int
pccc_encoder_bb_sptr.active_thread_priority(pccc_encoder_bb_sptr self) → int
pccc_encoder_bb_sptr.blocklength(pccc_encoder_bb_sptr self) → int
pccc_encoder_bb_sptr.declare_sample_delay(pccc_encoder_bb_sptr self, int which, int delay)
    declare_sample_delay(pccc_encoder_bb_sptr self, unsigned int delay)

pccc_encoder_bb_sptr.message_subscribers(pccc_encoder_bb_sptr self, swig_int_ptr which_port) → swig_int_ptr

pccc_encoder_bb_sptr.min_noutput_items(pccc_encoder_bb_sptr self) → int
pccc_encoder_bb_sptr.pc_input_buffers_full_avg(pccc_encoder_bb_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_encoder_bb_sptr self) -> pmt_vector_float
pccc_encoder_bb_sptr.pc_noutput_items_avg(pccc_encoder_bb_sptr self) → float
pccc_encoder_bb_sptr.pc_nproduced_avg(pccc_encoder_bb_sptr self) → float
pccc_encoder_bb_sptr.pc_output_buffers_full_avg(pccc_encoder_bb_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_encoder_bb_sptr self) -> pmt_vector_float
pccc_encoder_bb_sptr.pc_throughput_avg(pccc_encoder_bb_sptr self) → float
pccc_encoder_bb_sptr.pc_work_time_avg(pccc_encoder_bb_sptr self) → float
pccc_encoder_bb_sptr.pc_work_time_total(pccc_encoder_bb_sptr self) → float
pccc_encoder_bb_sptr.sample_delay(pccc_encoder_bb_sptr self, int which) → unsigned int
pccc_encoder_bb_sptr.set_min_noutput_items(pccc_encoder_bb_sptr self, int m)
pccc_encoder_bb_sptr.set_thread_priority(pccc_encoder_bb_sptr self, int priority) → int
pccc_encoder_bb_sptr.thread_priority(pccc_encoder_bb_sptr self) → int

```

gnuradio.trellis.**pccc\_encoder\_bi**(fsm FSM1, int ST1, fsm FSM2, int ST2, interleaver INTERLEAVER, int blocklength) → pccc\_encoder\_bi\_sptr

PCCC encoder.

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST1** –
- **FSM2** –
- **ST2** –
- **INTERLEAVER** –
- **blocklength** –

pccc\_encoder\_bi\_sptr.**FSM1**(pccc\_encoder\_bi\_sptr self) → fsm

pccc\_encoder\_bi\_sptr.**FSM2**(pccc\_encoder\_bi\_sptr self) → fsm

pccc\_encoder\_bi\_sptr.**INTERLEAVER**(pccc\_encoder\_bi\_sptr self) → interleaver

pccc\_encoder\_bi\_sptr.**ST1**(pccc\_encoder\_bi\_sptr self) → int

pccc\_encoder\_bi\_sptr.**ST2**(pccc\_encoder\_bi\_sptr self) → int

pccc\_encoder\_bi\_sptr.**active\_thread\_priority**(pccc\_encoder\_bi\_sptr self) → int

pccc\_encoder\_bi\_sptr.**blocklength**(pccc\_encoder\_bi\_sptr self) → int

pccc\_encoder\_bi\_sptr.**declare\_sample\_delay**(pccc\_encoder\_bi\_sptr self, int which, int delay)  
 declare\_sample\_delay(pccc\_encoder\_bi\_sptr self, unsigned int delay)

```

pccc_encoder_bi_sptr.message_subscribers(pccc_encoder_bi_sptr      self,      swig_int_ptr
which_port) → swig_int_ptr

pccc_encoder_bi_sptr.min_noutput_items(pccc_encoder_bi_sptr self) → int

pccc_encoder_bi_sptr.pc_input_buffers_full_avg(pccc_encoder_bi_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_encoder_bi_sptr self) -> pmt_vector_float

pccc_encoder_bi_sptr.pc_noutput_items_avg(pccc_encoder_bi_sptr self) → float

pccc_encoder_bi_sptr.pc_nproduced_avg(pccc_encoder_bi_sptr self) → float

pccc_encoder_bi_sptr.pc_output_buffers_full_avg(pccc_encoder_bi_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_encoder_bi_sptr self) -> pmt_vector_float

pccc_encoder_bi_sptr.pc_throughput_avg(pccc_encoder_bi_sptr self) → float

pccc_encoder_bi_sptr.pc_work_time_avg(pccc_encoder_bi_sptr self) → float

pccc_encoder_bi_sptr.pc_work_time_total(pccc_encoder_bi_sptr self) → float

pccc_encoder_bi_sptr.sample_delay(pccc_encoder_bi_sptr self, int which) → unsigned int

pccc_encoder_bi_sptr.set_min_noutput_items(pccc_encoder_bi_sptr self, int m)

pccc_encoder_bi_sptr.set_thread_priority(pccc_encoder_bi_sptr self, int priority) → int

pccc_encoder_bi_sptr.thread_priority(pccc_encoder_bi_sptr self) → int

```

gnuradio.trellis.pccc\_encoder\_bs(fsm FSM1, int ST1, fsm FSM2, int ST2, interleaver  
INTERLEAVER, int blocklength) → pccc\_encoder\_bs\_sptr

PCCC encoder.

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST1** –
- **FSM2** –
- **ST2** –
- **INTERLEAVER** –
- **blocklength** –

```

pccc_encoder_bs_sptr.FSM1(pccc_encoder_bs_sptr self) → fsm

pccc_encoder_bs_sptr.FSM2(pccc_encoder_bs_sptr self) → fsm

pccc_encoder_bs_sptr.INTERLEAVER(pccc_encoder_bs_sptr self) → interleaver

pccc_encoder_bs_sptr.ST1(pccc_encoder_bs_sptr self) → int

pccc_encoder_bs_sptr.ST2(pccc_encoder_bs_sptr self) → int

pccc_encoder_bs_sptr.active_thread_priority(pccc_encoder_bs_sptr self) → int

pccc_encoder_bs_sptr.blocklength(pccc_encoder_bs_sptr self) → int

pccc_encoder_bs_sptr.declare_sample_delay(pccc_encoder_bs_sptr self, int which, int delay)
    declare_sample_delay(pccc_encoder_bs_sptr self, unsigned int delay)

pccc_encoder_bs_sptr.message_subscribers(pccc_encoder_bs_sptr      self,      swig_int_ptr
which_port) → swig_int_ptr

pccc_encoder_bs_sptr.min_noutput_items(pccc_encoder_bs_sptr self) → int

pccc_encoder_bs_sptr.pc_input_buffers_full_avg(pccc_encoder_bs_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_encoder_bs_sptr self) -> pmt_vector_float

pccc_encoder_bs_sptr.pc_noutput_items_avg(pccc_encoder_bs_sptr self) → float

```

```

pccc_encoder_bs_sptr.pc_nproduced_avg(pccc_encoder_bs_sptr self) → float
pccc_encoder_bs_sptr.pc_output_buffers_full_avg(pccc_encoder_bs_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_encoder_bs_sptr self) -> pmt_vector_float
pccc_encoder_bs_sptr.pc_throughput_avg(pccc_encoder_bs_sptr self) → float
pccc_encoder_bs_sptr.pc_work_time_avg(pccc_encoder_bs_sptr self) → float
pccc_encoder_bs_sptr.pc_work_time_total(pccc_encoder_bs_sptr self) → float
pccc_encoder_bs_sptr.sample_delay(pccc_encoder_bs_sptr self, int which) → unsigned int
pccc_encoder_bs_sptr.set_min_noutput_items(pccc_encoder_bs_sptr self, int m)
pccc_encoder_bs_sptr.set_thread_priority(pccc_encoder_bs_sptr self, int priority) → int
pccc_encoder_bs_sptr.thread_priority(pccc_encoder_bs_sptr self) → int

gnuradio.trellis.pccc_encoder_ii(fsm FSM1, int ST1, fsm FSM2, int ST2, interleaver
INTERLEAVER, int blocklength) → pccc_encoder_ii_sptr
    PCCC encoder.

```

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST1** –
- **FSM2** –
- **ST2** –
- **INTERLEAVER** –
- **blocklength** –

```

pccc_encoder_ii_sptr.FSM1(pccc_encoder_ii_sptr self) → fsm
pccc_encoder_ii_sptr.FSM2(pccc_encoder_ii_sptr self) → fsm
pccc_encoder_ii_sptr.INTERLEAVER(pccc_encoder_ii_sptr self) → interleaver
pccc_encoder_ii_sptr.ST1(pccc_encoder_ii_sptr self) → int
pccc_encoder_ii_sptr.ST2(pccc_encoder_ii_sptr self) → int
pccc_encoder_ii_sptr.active_thread_priority(pccc_encoder_ii_sptr self) → int
pccc_encoder_ii_sptr.blocklength(pccc_encoder_ii_sptr self) → int
pccc_encoder_ii_sptr.declare_sample_delay(pccc_encoder_ii_sptr self, int which, int delay)
    declare_sample_delay(pccc_encoder_ii_sptr self, unsigned int delay)
pccc_encoder_ii_sptr.message_subscribers(pccc_encoder_ii_sptr self, swig_int_ptr
which_port) → swig_int_ptr
pccc_encoder_ii_sptr.min_noutput_items(pccc_encoder_ii_sptr self) → int
pccc_encoder_ii_sptr.pc_input_buffers_full_avg(pccc_encoder_ii_sptr self, int which) → float
    pc_input_buffers_full_avg(pccc_encoder_ii_sptr self) -> pmt_vector_float
pccc_encoder_ii_sptr.pc_noutput_items_avg(pccc_encoder_ii_sptr self) → float
pccc_encoder_ii_sptr.pc_nproduced_avg(pccc_encoder_ii_sptr self) → float
pccc_encoder_ii_sptr.pc_output_buffers_full_avg(pccc_encoder_ii_sptr self, int which) → float
    pc_output_buffers_full_avg(pccc_encoder_ii_sptr self) -> pmt_vector_float
pccc_encoder_ii_sptr.pc_throughput_avg(pccc_encoder_ii_sptr self) → float
pccc_encoder_ii_sptr.pc_work_time_avg(pccc_encoder_ii_sptr self) → float
pccc_encoder_ii_sptr.pc_work_time_total(pccc_encoder_ii_sptr self) → float

```

```

pccc_encoder_ii_sptr.sample_delay(pccc_encoder_ii_sptr self, int which) → unsigned int
pccc_encoder_ii_sptr.set_min_noutput_items(pccc_encoder_ii_sptr self, int m)
pccc_encoder_ii_sptr.set_thread_priority(pccc_encoder_ii_sptr self, int priority) → int
pccc_encoder_ii_sptr.thread_priority(pccc_encoder_ii_sptr self) → int

gnuradio.trellis.pccc_encoder_si(fsm FSM1, int ST1, fsm FSM2, int ST2, interleaver
INTERLEAVER, int blocklength) → pccc_encoder_si_sptr
PCCC encoder.

Constructor Specific Documentation:

Parameters: • FSM1 –
• ST1 –
• FSM2 –
• ST2 –
• INTERLEAVER –
• blocklength –

pccc_encoder_si_sptr.FSM1(pccc_encoder_si_sptr self) → fsm
pccc_encoder_si_sptr.FSM2(pccc_encoder_si_sptr self) → fsm
pccc_encoder_si_sptr.INTERLEAVER(pccc_encoder_si_sptr self) → interleaver
pccc_encoder_si_sptr.ST1(pccc_encoder_si_sptr self) → int
pccc_encoder_si_sptr.ST2(pccc_encoder_si_sptr self) → int
pccc_encoder_si_sptr.active_thread_priority(pccc_encoder_si_sptr self) → int
pccc_encoder_si_sptr.blocklength(pccc_encoder_si_sptr self) → int
pccc_encoder_si_sptr.declare_sample_delay(pccc_encoder_si_sptr self, int which, int delay)
declare_sample_delay(pccc_encoder_si_sptr self, unsigned int delay)
pccc_encoder_si_sptr.message_subscribers(pccc_encoder_si_sptr self, swig_int_ptr
which_port) → swig_int_ptr
pccc_encoder_si_sptr.min_noutput_items(pccc_encoder_si_sptr self) → int
pccc_encoder_si_sptr.pc_input_buffers_full_avg(pccc_encoder_si_sptr self, int which) → float
pc_input_buffers_full_avg(pccc_encoder_si_sptr self) -> pmr_vector_float
pccc_encoder_si_sptr.pc_noutput_items_avg(pccc_encoder_si_sptr self) → float
pccc_encoder_si_sptr.pc_nproduced_avg(pccc_encoder_si_sptr self) → float
pccc_encoder_si_sptr.pc_output_buffers_full_avg(pccc_encoder_si_sptr self, int which) → float
pc_output_buffers_full_avg(pccc_encoder_si_sptr self) -> pmr_vector_float
pccc_encoder_si_sptr.pc_throughput_avg(pccc_encoder_si_sptr self) → float
pccc_encoder_si_sptr.pc_work_time_avg(pccc_encoder_si_sptr self) → float
pccc_encoder_si_sptr.pc_work_time_total(pccc_encoder_si_sptr self) → float
pccc_encoder_si_sptr.sample_delay(pccc_encoder_si_sptr self, int which) → unsigned int
pccc_encoder_si_sptr.set_min_noutput_items(pccc_encoder_si_sptr self, int m)
pccc_encoder_si_sptr.set_thread_priority(pccc_encoder_si_sptr self, int priority) → int
pccc_encoder_si_sptr.thread_priority(pccc_encoder_si_sptr self) → int

gnuradio.trellis.pccc_encoder_ss(fsm FSM1, int ST1, fsm FSM2, int ST2, interleaver
INTERLEAVER, int blocklength) → pccc_encoder_ss_sptr
PCCC encoder.

```

Constructor Specific Documentation:

**Parameters:**

- **FSM1** –
- **ST1** –
- **FSM2** –
- **ST2** –
- **INTERLEAVER** –
- **blocklength** –

```
pccc_encoder_ss_sptr.FSM1(pccc_encoder_ss_sptr self) → fsm  
pccc_encoder_ss_sptr.FSM2(pccc_encoder_ss_sptr self) → fsm  
pccc_encoder_ss_sptr.INTERLEAVER(pccc_encoder_ss_sptr self) → interleaver  
pccc_encoder_ss_sptr.ST1(pccc_encoder_ss_sptr self) → int  
pccc_encoder_ss_sptr.ST2(pccc_encoder_ss_sptr self) → int  
pccc_encoder_ss_sptr.active_thread_priority(pccc_encoder_ss_sptr self) → int  
pccc_encoder_ss_sptr.blocklength(pccc_encoder_ss_sptr self) → int  
pccc_encoder_ss_sptr.declare_sample_delay(pccc_encoder_ss_sptr self, int which, int delay)  
    declare_sample_delay(pccc_encoder_ss_sptr self, unsigned int delay)  
pccc_encoder_ss_sptr.message_subscribers(pccc_encoder_ss_sptr self, swig_int_ptr  
which_port) → swig_int_ptr  
pccc_encoder_ss_sptr.min_noutput_items(pccc_encoder_ss_sptr self) → int  
pccc_encoder_ss_sptr.pc_input_buffers_full_avg(pccc_encoder_ss_sptr self, int which) → float  
    pc_input_buffers_full_avg(pccc_encoder_ss_sptr self) -> pmt_vector_float  
pccc_encoder_ss_sptr.pc_noutput_items_avg(pccc_encoder_ss_sptr self) → float  
pccc_encoder_ss_sptr.pc_nproduced_avg(pccc_encoder_ss_sptr self) → float  
pccc_encoder_ss_sptr.pc_output_buffers_full_avg(pccc_encoder_ss_sptr self, int which) → float  
    pc_output_buffers_full_avg(pccc_encoder_ss_sptr self) -> pmt_vector_float  
pccc_encoder_ss_sptr.pc_throughput_avg(pccc_encoder_ss_sptr self) → float  
pccc_encoder_ss_sptr.pc_work_time_avg(pccc_encoder_ss_sptr self) → float  
pccc_encoder_ss_sptr.pc_work_time_total(pccc_encoder_ss_sptr self) → float  
pccc_encoder_ss_sptr.sample_delay(pccc_encoder_ss_sptr self, int which) → unsigned int  
pccc_encoder_ss_sptr.set_min_noutput_items(pccc_encoder_ss_sptr self, int m)  
pccc_encoder_ss_sptr.set_thread_priority(pccc_encoder_ss_sptr self, int priority) → int  
pccc_encoder_ss_sptr.thread_priority(pccc_encoder_ss_sptr self) → int
```

```
gnuradio.trellis.permutation(int K, std::vector<int, std::allocator<int>> const & TABLE, int  
SYMS_PER_BLOCK, size_t NBYTES) → permutation_sptr
```

Permutation.

Constructor Specific Documentation:

**Parameters:**

- **K** –
- **TABLE** –
- **SYMS\_PER\_BLOCK** –
- **NBYTES** –

```
permutation_sptr.BYTES_PER_SYMBOL(permutation_sptr self) → size_t  
permutation_sptr.K(permutation_sptr self) → int
```

```

permutation_sptr.SYMS_PER_BLOCK(permutation_sptr self) → int
permutation_sptr.TABLE(permutation_sptr self) → std::vector< int, std::allocator< int > >
permutation_sptr.active_thread_priority(permutation_sptr self) → int
permutation_sptr.declare_sample_delay(permutation_sptr self, int which, int delay)
    declare_sample_delay(permutation_sptr self, unsigned int delay)

permutation_sptr.message_subscribers(permutation_sptr self, swig_int_ptr which_port) →
    swig_int_ptr

permutation_sptr.min_noutput_items(permutation_sptr self) → int
permutation_sptr.pc_input_buffers_full_avg(permutation_sptr self, int which) → float
    pc_input_buffers_full_avg(permutation_sptr self) -> pmt_vector_float
permutation_sptr.pc_noutput_items_avg(permutation_sptr self) → float
permutation_sptr.pc_nproduced_avg(permutation_sptr self) → float
permutation_sptr.pc_output_buffers_full_avg(permutation_sptr self, int which) → float
    pc_output_buffers_full_avg(permutation_sptr self) -> pmt_vector_float
permutation_sptr.pc_throughput_avg(permutation_sptr self) → float
permutation_sptr.pc_work_time_avg(permutation_sptr self) → float
permutation_sptr.pc_work_time_total(permutation_sptr self) → float
permutation_sptr.sample_delay(permutation_sptr self, int which) → unsigned int
permutation_sptr.set_K(permutation_sptr self, int K)
permutation_sptr.set_SYMS_PER_BLOCK(permutation_sptr self, int spb)
permutation_sptr.set_TABLE(permutation_sptr self, std::vector< int, std::allocator< int > > const &
    table)
permutation_sptr.set_min_noutput_items(permutation_sptr self, int m)
permutation_sptr.set_thread_priority(permutation_sptr self, int priority) → int
permutation_sptr.thread_priority(permutation_sptr self) → int

```

gnuradio.trellis.**sccc\_decoder\_b**(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK,  
 interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::iso\_type\_t SISO\_TYPE) →  
 sccc\_decoder\_b\_sptr

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –

```

sccc_decoder_b_sptr.FSMi(sccc_decoder_b_sptr self) → fsm
sccc_decoder_b_sptr.FSMo(sccc_decoder_b_sptr self) → fsm
sccc_decoder_b_sptr.INTERLEAVER(sccc_decoder_b_sptr self) → interleaver
sccc_decoder_b_sptr.SISO_TYPE(sccc_decoder_b_sptr self) → gr::trellis::iso_type_t
sccc_decoder_b_sptr.STi0(sccc_decoder_b_sptr self) → int
sccc_decoder_b_sptr.STiK(sccc_decoder_b_sptr self) → int

```

```

sccc_decoder_b_sptr.STo0(sccc_decoder_b_sptr self) → int
sccc_decoder_b_sptr.SToK(sccc_decoder_b_sptr self) → int
sccc_decoder_b_sptr.active_thread_priority(sccc_decoder_b_sptr self) → int
sccc_decoder_b_sptr.blocklength(sccc_decoder_b_sptr self) → int
sccc_decoder_b_sptr.declare_sample_delay(sccc_decoder_b_sptr self, int which, int delay)
    declare_sample_delay(sccc_decoder_b_sptr self, unsigned int delay)
sccc_decoder_b_sptr.message_subscribers(sccc_decoder_b_sptr self, swig_int_ptr which_port)
    → swig_int_ptr
sccc_decoder_b_sptr.min_noutput_items(sccc_decoder_b_sptr self) → int
sccc_decoder_b_sptr.pc_input_buffers_full_avg(sccc_decoder_b_sptr self, int which) → float
    pc_input_buffers_full_avg(sccc_decoder_b_sptr self) → pmt_vector_float
sccc_decoder_b_sptr.pc_noutput_items_avg(sccc_decoder_b_sptr self) → float
sccc_decoder_b_sptr.pc_nproduced_avg(sccc_decoder_b_sptr self) → float
sccc_decoder_b_sptr.pc_output_buffers_full_avg(sccc_decoder_b_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_b_sptr self) → pmt_vector_float
sccc_decoder_b_sptr.pc_throughput_avg(sccc_decoder_b_sptr self) → float
sccc_decoder_b_sptr.pc_work_time_avg(sccc_decoder_b_sptr self) → float
sccc_decoder_b_sptr.pc_work_time_total(sccc_decoder_b_sptr self) → float
sccc_decoder_b_sptr.repetitions(sccc_decoder_b_sptr self) → int
sccc_decoder_b_sptr.sample_delay(sccc_decoder_b_sptr self, int which) → unsigned int
sccc_decoder_b_sptr.set_min_noutput_items(sccc_decoder_b_sptr self, int m)
sccc_decoder_b_sptr.set_thread_priority(sccc_decoder_b_sptr self, int priority) → int
sccc_decoder_b_sptr.thread_priority(sccc_decoder_b_sptr self) → int
gnuradio.trellis.sccc_decoder_combined_cb(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0,
int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE,
int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) →
sccc_decoder_combined_cb_sptr
Constructor Specific Documentation:
```

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```

sccc_decoder_combined_cb_sptr.D(sccc_decoder_combined_cb_sptr self) → int
sccc_decoder_combined_cb_sptr.FSMi(sccc_decoder_combined_cb_sptr self) → fsm
sccc_decoder_combined_cb_sptr.FSMo(sccc_decoder_combined_cb_sptr self) → fsm
sccc_decoder_combined_cb_sptr.INTERLEAVER(sccc_decoder_combined_cb_sptr self) →
    self
```

## interleaver

```
sccc_decoder_combined_cb_sptr.METRIC_TYPE(sccc_decoder_combined_cb_sptr self) →
gr::digital::trellis_metric_type_t

sccc_decoder_combined_cb_sptr.SISO_TYPE(sccc_decoder_combined_cb_sptr self) →
gr::trellis::siso_type_t

sccc_decoder_combined_cb_sptr.STi0(sccc_decoder_combined_cb_sptr self) → int
sccc_decoder_combined_cb_sptr.STiK(sccc_decoder_combined_cb_sptr self) → int
sccc_decoder_combined_cb_sptr.STo0(sccc_decoder_combined_cb_sptr self) → int
sccc_decoder_combined_cb_sptr.SToK(sccc_decoder_combined_cb_sptr self) → int
sccc_decoder_combined_cb_sptr.TABLE(sccc_decoder_combined_cb_sptr self) →
pmt_vector_cfloat

sccc_decoder_combined_cb_sptr.active_thread_priority(sccc_decoder_combined_cb_sptr
self) → int
sccc_decoder_combined_cb_sptr.blocklength(sccc_decoder_combined_cb_sptr self) → int
sccc_decoder_combined_cb_sptr.declare_sample_delay(sccc_decoder_combined_cb_sptr self,
int which, int delay)
    declare_sample_delay(sccc_decoder_combined_cb_sptr self, unsigned int delay)

sccc_decoder_combined_cb_sptr.message_subscribers(sccc_decoder_combined_cb_sptr self,
swig_int_ptr which_port) → swig_int_ptr

sccc_decoder_combined_cb_sptr.min_noutput_items(sccc_decoder_combined_cb_sptr self) →
int
sccc_decoder_combined_cb_sptr.pc_input_buffers_full_avg(sccc_decoder_combined_cb_sptr
self, int which) → float
    pc_input_buffers_full_avg(sccc_decoder_combined_cb_sptr self) -> pmt_vector_float

sccc_decoder_combined_cb_sptr.pc_noutput_items_avg(sccc_decoder_combined_cb_sptr self)
→ float
sccc_decoder_combined_cb_sptr.pc_nproduced_avg(sccc_decoder_combined_cb_sptr self) →
float
sccc_decoder_combined_cb_sptr.pc_output_buffers_full_avg(sccc_decoder_combined_cb_sptr
self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_combined_cb_sptr self) -> pmt_vector_float

sccc_decoder_combined_cb_sptr.pc_throughput_avg(sccc_decoder_combined_cb_sptr self) →
float
sccc_decoder_combined_cb_sptr.pc_work_time_avg(sccc_decoder_combined_cb_sptr self) →
float
sccc_decoder_combined_cb_sptr.pc_work_time_total(sccc_decoder_combined_cb_sptr self) →
float
sccc_decoder_combined_cb_sptr.repetitions(sccc_decoder_combined_cb_sptr self) → int
sccc_decoder_combined_cb_sptr.sample_delay(sccc_decoder_combined_cb_sptr self, int which)
→ unsigned int
sccc_decoder_combined_cb_sptr.scaling(sccc_decoder_combined_cb_sptr self) → float
sccc_decoder_combined_cb_sptr.set_min_noutput_items(sccc_decoder_combined_cb_sptr
self, int m)
sccc_decoder_combined_cb_sptr.set_scaling(sccc_decoder_combined_cb_sptr self, float
scaling)
sccc_decoder_combined_cb_sptr.set_thread_priority(sccc_decoder_combined_cb_sptr self,
int priority) → int
```

```
sccc_decoder_combined_cb_sptr.thread_priority(sccc_decoder_combined_cb_sptr self) → int
gnuradio.trellis.sccc_decoder_combined_ci(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0,
int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE,
int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) →
sccc_decoder_combined_ci_sptr
```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```
sccc_decoder_combined_ci_sptr.D(sccc_decoder_combined_ci_sptr self) → int
sccc_decoder_combined_ci_sptr.FSMi(sccc_decoder_combined_ci_sptr self) → fsm
sccc_decoder_combined_ci_sptr.FSMo(sccc_decoder_combined_ci_sptr self) → fsm
sccc_decoder_combined_ci_sptr.INTERLEAVER(sccc_decoder_combined_ci_sptr self) →
interleaver
sccc_decoder_combined_ci_sptr.METRIC_TYPE(sccc_decoder_combined_ci_sptr self) →
gr::digital::trellis_metric_type_t
sccc_decoder_combined_ci_sptr.SISO_TYPE(sccc_decoder_combined_ci_sptr self) →
gr::trellis::siso_type_t
sccc_decoder_combined_ci_sptr.STi0(sccc_decoder_combined_ci_sptr self) → int
sccc_decoder_combined_ci_sptr.STiK(sccc_decoder_combined_ci_sptr self) → int
sccc_decoder_combined_ci_sptr.STo0(sccc_decoder_combined_ci_sptr self) → int
sccc_decoder_combined_ci_sptr.SToK(sccc_decoder_combined_ci_sptr self) → int
sccc_decoder_combined_ci_sptr.TABLE(sccc_decoder_combined_ci_sptr self) →
pmt_vector_cfloat
sccc_decoder_combined_ci_sptr.active_thread_priority(sccc_decoder_combined_ci_sptr self) → int
sccc_decoder_combined_ci_sptr.blocklength(sccc_decoder_combined_ci_sptr self) → int
sccc_decoder_combined_ci_sptr.declare_sample_delay(sccc_decoder_combined_ci_sptr self,
int which, int delay)
declare_sample_delay(sccc_decoder_combined_ci_sptr self, unsigned int delay)
sccc_decoder_combined_ci_sptr.message_subscribers(sccc_decoder_combined_ci_sptr self,
swig_int_ptr which_port) → swig_int_ptr
sccc_decoder_combined_ci_sptr.min_noutput_items(sccc_decoder_combined_ci_sptr self) →
int
sccc_decoder_combined_ci_sptr.pc_input_buffers_full_avg(sccc_decoder_combined_ci_sptr self,
int which) → float
pc_input_buffers_full_avg(sccc_decoder_combined_ci_sptr self) → pmt_vector_float
sccc_decoder_combined_ci_sptr.pc_noutput_items_avg(sccc_decoder_combined_ci_sptr self) →
float
sccc_decoder_combined_ci_sptr.pc_nproduced_avg(sccc_decoder_combined_ci_sptr self) →
```

```

float

sccc_decoder_combined_ci_sptr.pc_output_buffers_full_avg(sccc_decoder_combined_ci_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_combined_ci_sptr self) → pmt_vector_float

sccc_decoder_combined_ci_sptr.pc_throughput_avg(sccc_decoder_combined_ci_sptr self) → float
    sccc_decoder_combined_ci_sptr.pc_work_time_avg(sccc_decoder_combined_ci_sptr self) → float

sccc_decoder_combined_ci_sptr.pc_work_time_total(sccc_decoder_combined_ci_sptr self) → float
    sccc_decoder_combined_ci_sptr.repetitions(sccc_decoder_combined_ci_sptr self) → int

sccc_decoder_combined_ci_sptr.sample_delay(sccc_decoder_combined_ci_sptr self, int which) → unsigned int
    sccc_decoder_combined_ci_sptr.scaling(sccc_decoder_combined_ci_sptr self) → float

sccc_decoder_combined_ci_sptr.set_min_noutput_items(sccc_decoder_combined_ci_sptr self, int m)
    sccc_decoder_combined_ci_sptr.set_scaling(sccc_decoder_combined_ci_sptr self, float scaling)
        sccc_decoder_combined_ci_sptr.set_thread_priority(sccc_decoder_combined_ci_sptr self, int priority) → int
            sccc_decoder_combined_ci_sptr.thread_priority(sccc_decoder_combined_ci_sptr self) → int

gnuradio.trellis.sccc_decoder_combined_cs(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE, int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) → sccc_decoder_combined_cs_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```

sccc_decoder_combined_cs_sptr.D(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.FSMi(sccc_decoder_combined_cs_sptr self) → fsm
sccc_decoder_combined_cs_sptr.FSMo(sccc_decoder_combined_cs_sptr self) → fsm
sccc_decoder_combined_cs_sptr.INTERLEAVER(sccc_decoder_combined_cs_sptr self) → interleaver
sccc_decoder_combined_cs_sptr.METRIC_TYPE(sccc_decoder_combined_cs_sptr self) → gr::digital::trellis_metric_type_t
sccc_decoder_combined_cs_sptr.SISO_TYPE(sccc_decoder_combined_cs_sptr self) → gr::trellis::siso_type_t
sccc_decoder_combined_cs_sptr.STi0(sccc_decoder_combined_cs_sptr self) → int

```

```

sccc_decoder_combined_cs_sptr.STIK(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.STO0(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.STOK(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.TABLE(sccc_decoder_combined_cs_sptr self, pmt_vector_cfloat) →
sccc_decoder_combined_cs_sptr.active_thread_priority(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.blocklength(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.declare_sample_delay(sccc_decoder_combined_cs_sptr self, int which, int delay)
    declare_sample_delay(sccc_decoder_combined_cs_sptr self, unsigned int delay)
sccc_decoder_combined_cs_sptr.message_subscribers(sccc_decoder_combined_cs_sptr self, swig_int_ptr which_port) → swig_int_ptr
sccc_decoder_combined_cs_sptr.min_noutput_items(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.pc_input_buffers_full_avg(sccc_decoder_combined_cs_sptr self, int which) → float
    pc_input_buffers_full_avg(sccc_decoder_combined_cs_sptr self) -> pmt_vector_float
sccc_decoder_combined_cs_sptr.pc_noutput_items_avg(sccc_decoder_combined_cs_sptr self) → float
sccc_decoder_combined_cs_sptr.pc_nproduced_avg(sccc_decoder_combined_cs_sptr self) → float
sccc_decoder_combined_cs_sptr.pc_output_buffers_full_avg(sccc_decoder_combined_cs_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_combined_cs_sptr self) -> pmt_vector_float
sccc_decoder_combined_cs_sptr.pc_throughput_avg(sccc_decoder_combined_cs_sptr self) → float
sccc_decoder_combined_cs_sptr.pc_work_time_avg(sccc_decoder_combined_cs_sptr self) → float
sccc_decoder_combined_cs_sptr.pc_work_time_total(sccc_decoder_combined_cs_sptr self) → float
sccc_decoder_combined_cs_sptr.repetitions(sccc_decoder_combined_cs_sptr self) → int
sccc_decoder_combined_cs_sptr.sample_delay(sccc_decoder_combined_cs_sptr self, int which) → unsigned int
sccc_decoder_combined_cs_sptr.scaling(sccc_decoder_combined_cs_sptr self) → float
sccc_decoder_combined_cs_sptr.set_min_noutput_items(sccc_decoder_combined_cs_sptr self, int m)
sccc_decoder_combined_cs_sptr.set_scaling(sccc_decoder_combined_cs_sptr self, float scaling)
sccc_decoder_combined_cs_sptr.set_thread_priority(sccc_decoder_combined_cs_sptr self, int priority) → int
sccc_decoder_combined_cs_sptr.thread_priority(sccc_decoder_combined_cs_sptr self) → int
gnuradio.trellis.sccc_decoder_combined_fb(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STIK, interleaver INTERLEAYER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE, int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) → sccc_decoder_combined_fb_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```
sccc_decoder_combined_fb_sptr.D(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.FSMi(sccc_decoder_combined_fb_sptr self) → fsm  
  
sccc_decoder_combined_fb_sptr.FSMo(sccc_decoder_combined_fb_sptr self) → fsm  
  
sccc_decoder_combined_fb_sptr.INTERLEAVER(sccc_decoder_combined_fb_sptr self) → interleaver  
  
sccc_decoder_combined_fb_sptr.METRIC_TYPE(sccc_decoder_combined_fb_sptr self) → gr::digital::trellis::metric_type_t  
  
sccc_decoder_combined_fb_sptr.SISO_TYPE(sccc_decoder_combined_fb_sptr self) → gr::trellis::siso_type_t  
  
sccc_decoder_combined_fb_sptr.STi0(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.STiK(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.STo0(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.SToK(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.TABLE(sccc_decoder_combined_fb_sptr self) → pmt_vector_float  
  
sccc_decoder_combined_fb_sptr.active_thread_priority(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.blocklength(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.declare_sample_delay(sccc_decoder_combined_fb_sptr self, int which, int delay)  
    declare_sample_delay(sccc_decoder_combined_fb_sptr self, unsigned int delay)  
  
sccc_decoder_combined_fb_sptr.message_subscribers(sccc_decoder_combined_fb_sptr self, swig_int_ptr which_port) → swig_int_ptr  
  
sccc_decoder_combined_fb_sptr.min_noutput_items(sccc_decoder_combined_fb_sptr self) → int  
  
sccc_decoder_combined_fb_sptr.pc_input_buffers_full_avg(sccc_decoder_combined_fb_sptr self, int which) → float  
    pc_input_buffers_full_avg(sccc_decoder_combined_fb_sptr self) → pmt_vector_float  
  
sccc_decoder_combined_fb_sptr.pc_noutput_items_avg(sccc_decoder_combined_fb_sptr self) → float  
  
sccc_decoder_combined_fb_sptr.pc_nproduced_avg(sccc_decoder_combined_fb_sptr self) → float  
  
sccc_decoder_combined_fb_sptr.pc_output_buffers_full_avg(sccc_decoder_combined_fb_sptr self, int which) → float  
    pc_output_buffers_full_avg(sccc_decoder_combined_fb_sptr self) → pmt_vector_float  
  
sccc_decoder_combined_fb_sptr.pc_throughput_avg(sccc_decoder_combined_fb_sptr self) → float
```

```

sccc_decoder_combined_fb_sptr.pc_work_time_avg(sccc_decoder_combined_fb_sptr self) →
float

sccc_decoder_combined_fb_sptr.pc_work_time_total(sccc_decoder_combined_fb_sptr self) →
float

sccc_decoder_combined_fb_sptr.repetitions(sccc_decoder_combined_fb_sptr self) → int

sccc_decoder_combined_fb_sptr.sample_delay(sccc_decoder_combined_fb_sptr self, int which) →
unsigned int

sccc_decoder_combined_fb_sptr.scaling(sccc_decoder_combined_fb_sptr self) → float

sccc_decoder_combined_fb_sptr.set_min_noutput_items(sccc_decoder_combined_fb_sptr self,
int m)

sccc_decoder_combined_fb_sptr.set_scaling(sccc_decoder_combined_fb_sptr self, float
scaling)

sccc_decoder_combined_fb_sptr.set_thread_priority(sccc_decoder_combined_fb_sptr self, int
priority) → int

sccc_decoder_combined_fb_sptr.thread_priority(sccc_decoder_combined_fb_sptr self) → int

gnuradio.trellis.sccc_decoder_combined_fi(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0,
int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE,
int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) →
sccc_decoder_combined_fi_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```

sccc_decoder_combined_fi_sptr.D(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.FSMi(sccc_decoder_combined_fi_sptr self) → fsm

sccc_decoder_combined_fi_sptr.FSMo(sccc_decoder_combined_fi_sptr self) → fsm

sccc_decoder_combined_fi_sptr.INTERLEAVER(sccc_decoder_combined_fi_sptr self) →
interleaver

sccc_decoder_combined_fi_sptr.METRIC_TYPE(sccc_decoder_combined_fi_sptr self) →
gr::digital::trellis_metric_type_t

sccc_decoder_combined_fi_sptr.SISO_TYPE(sccc_decoder_combined_fi_sptr self) →
gr::trellis::siso_type_t

sccc_decoder_combined_fi_sptr.STi0(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.STiK(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.STo0(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.SToK(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.TABLE(sccc_decoder_combined_fi_sptr self) → pmt_vector_float

sccc_decoder_combined_fi_sptr.active_thread_priority(sccc_decoder_combined_fi_sptr
self) → int

```

```

sccc_decoder_combined_fi_sptr.blocklength(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.declare_sample_delay(sccc_decoder_combined_fi_sptr self, int which, int delay)
    declare_sample_delay(sccc_decoder_combined_fi_sptr self, unsigned int delay)

sccc_decoder_combined_fi_sptr.message_subscribers(sccc_decoder_combined_fi_sptr self, swig_int_ptr which_port) → swig_int_ptr

sccc_decoder_combined_fi_sptr.min_noutput_items(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.pc_input_buffers_full_avg(sccc_decoder_combined_fi_sptr self, int which) → float
    pc_input_buffers_full_avg(sccc_decoder_combined_fi_sptr self) -> pmt_vector_float

sccc_decoder_combined_fi_sptr.pc_noutput_items_avg(sccc_decoder_combined_fi_sptr self) → float

sccc_decoder_combined_fi_sptr.pc_nproduced_avg(sccc_decoder_combined_fi_sptr self) → float

sccc_decoder_combined_fi_sptr.pc_output_buffers_full_avg(sccc_decoder_combined_fi_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_combined_fi_sptr self) -> pmt_vector_float

sccc_decoder_combined_fi_sptr.pc_throughput_avg(sccc_decoder_combined_fi_sptr self) → float

sccc_decoder_combined_fi_sptr.pc_work_time_avg(sccc_decoder_combined_fi_sptr self) → float

sccc_decoder_combined_fi_sptr.pc_work_time_total(sccc_decoder_combined_fi_sptr self) → float

sccc_decoder_combined_fi_sptr.repetitions(sccc_decoder_combined_fi_sptr self) → int

sccc_decoder_combined_fi_sptr.sample_delay(sccc_decoder_combined_fi_sptr self, int which) → unsigned int

sccc_decoder_combined_fi_sptr.scaling(sccc_decoder_combined_fi_sptr self) → float

sccc_decoder_combined_fi_sptr.set_min_noutput_items(sccc_decoder_combined_fi_sptr self, int m)

sccc_decoder_combined_fi_sptr.set_scaling(sccc_decoder_combined_fi_sptr self, float scaling)

sccc_decoder_combined_fi_sptr.set_thread_priority(sccc_decoder_combined_fi_sptr self, int priority) → int

sccc_decoder_combined_fi_sptr.thread_priority(sccc_decoder_combined_fi_sptr self) → int

gnuradio.trellis.sccc_decoder_combined_fs(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0,
int STiK, interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::iso_type_t SISO_TYPE,
int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t METRIC_TYPE, float scaling) →
sccc_decoder_combined_fs_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –
- **D** –
- **TABLE** –
- **METRIC\_TYPE** –
- **scaling** –

```
sccc_decoder_combined_fs_sptr.D(sccc_decoder_combined_fs_sptr self) → int
sccc_decoder_combined_fs_sptr.FSMi(sccc_decoder_combined_fs_sptr self) → fsm
sccc_decoder_combined_fs_sptr.FSMo(sccc_decoder_combined_fs_sptr self) → fsm
sccc_decoder_combined_fs_sptr.INTERLEAVER(sccc_decoder_combined_fs_sptr self) →
interleaver
sccc_decoder_combined_fs_sptr.METRIC_TYPE(sccc_decoder_combined_fs_sptr self) →
gr:digital::trellis_metric_type_t
sccc_decoder_combined_fs_sptr.SISO_TYPE(sccc_decoder_combined_fs_sptr self) →
gr:trellis::siso_type_t
sccc_decoder_combined_fs_sptr.STi0(sccc_decoder_combined_fs_sptr self) → int
sccc_decoder_combined_fs_sptr.STiK(sccc_decoder_combined_fs_sptr self) → int
sccc_decoder_combined_fs_sptr.STo0(sccc_decoder_combined_fs_sptr self) → int
sccc_decoder_combined_fs_sptr.SToK(sccc_decoder_combined_fs_sptr self) → int
sccc_decoder_combined_fs_sptr.TABLE(sccc_decoder_combined_fs_sptr self) → pmt_vector_float
sccc_decoder_combined_fs_sptr.active_thread_priority(sccc_decoder_combined_fs_sptr
self) → int
sccc_decoder_combined_fs_sptr.blocklength(sccc_decoder_combined_fs_sptr self) → int
sccc_decoder_combined_fs_sptr.declare_sample_delay(sccc_decoder_combined_fs_sptr self,
int which, int delay)
    declare_sample_delay(sccc_decoder_combined_fs_sptr self, unsigned int delay)
sccc_decoder_combined_fs_sptr.message_subscribers(sccc_decoder_combined_fs_sptr self,
swig_int_ptr which_port) → swig_int_ptr
sccc_decoder_combined_fs_sptr.min_noutput_items(sccc_decoder_combined_fs_sptr self) →
int
sccc_decoder_combined_fs_sptr.pc_input_buffers_full_avg(sccc_decoder_combined_fs_sptr
self, int which) → float
    pc_input_buffers_full_avg(sccc_decoder_combined_fs_sptr self) → pmt_vector_float
sccc_decoder_combined_fs_sptr.pc_noutput_items_avg(sccc_decoder_combined_fs_sptr self) →
float
sccc_decoder_combined_fs_sptr.pc_nproduced_avg(sccc_decoder_combined_fs_sptr self) →
float
sccc_decoder_combined_fs_sptr.pc_output_buffers_full_avg(sccc_decoder_combined_fs_sptr
self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_combined_fs_sptr self) → pmt_vector_float
sccc_decoder_combined_fs_sptr.pc_throughput_avg(sccc_decoder_combined_fs_sptr self) →
float
```

```

sccc_decoder_combined_fs_sptr.pc_work_time_avg(sccc_decoder_combined_fs_sptr self) →
float

sccc_decoder_combined_fs_sptr.pc_work_time_total(sccc_decoder_combined_fs_sptr self) →
float

sccc_decoder_combined_fs_sptr.repetitions(sccc_decoder_combined_fs_sptr self) → int

sccc_decoder_combined_fs_sptr.sample_delay(sccc_decoder_combined_fs_sptr self, int which) →
unsigned int

sccc_decoder_combined_fs_sptr.scaling(sccc_decoder_combined_fs_sptr self) → float

sccc_decoder_combined_fs_sptr.set_min_noutput_items(sccc_decoder_combined_fs_sptr self,
int m)

sccc_decoder_combined_fs_sptr.set_scaling(sccc_decoder_combined_fs_sptr self, float
scaling)

sccc_decoder_combined_fs_sptr.set_thread_priority(sccc_decoder_combined_fs_sptr self, int
priority) → int

sccc_decoder_combined_fs_sptr.thread_priority(sccc_decoder_combined_fs_sptr self) → int

```

`gnuradio.trellis.sccc_decoder_i(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK,  
interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE) →  
sccc_decoder_i_sptr`

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –

```

sccc_decoder_i_sptr.FSMi(sccc_decoder_i_sptr self) → fsm
sccc_decoder_i_sptr.FSMo(sccc_decoder_i_sptr self) → fsm
sccc_decoder_i_sptr.INTERLEAVER(sccc_decoder_i_sptr self) → interleaver
sccc_decoder_i_sptr.SISO_TYPE(sccc_decoder_i_sptr self) → gr::trellis::siso_type_t
sccc_decoder_i_sptr.STi0(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.STiK(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.STo0(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.SToK(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.active_thread_priority(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.blocklength(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.declare_sample_delay(sccc_decoder_i_sptr self, int which, int delay)
declare_sample_delay(sccc_decoder_i_sptr self, unsigned int delay)
sccc_decoder_i_sptr.message_subscribers(sccc_decoder_i_sptr self, swig_int_ptr which_port)
→ swig_int_ptr
sccc_decoder_i_sptr.min_noutput_items(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.pc_input_buffers_full_avg(sccc_decoder_i_sptr self, int which) →
float
pc_input_buffers_full_avg(sccc_decoder_i_sptr self) → pmt_vector_float

```

```

sccc_decoder_i_sptr.pc_noutput_items_avg(sccc_decoder_i_sptr self) → float
sccc_decoder_i_sptr.pc_nproduced_avg(sccc_decoder_i_sptr self) → float
sccc_decoder_i_sptr.pc_output_buffers_full_avg(sccc_decoder_i_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_i_sptr self) -> pmt_vector_float
sccc_decoder_i_sptr.pc_throughput_avg(sccc_decoder_i_sptr self) → float
sccc_decoder_i_sptr.pc_work_time_avg(sccc_decoder_i_sptr self) → float
sccc_decoder_i_sptr.pc_work_time_total(sccc_decoder_i_sptr self) → float
sccc_decoder_i_sptr.repetitions(sccc_decoder_i_sptr self) → int
sccc_decoder_i_sptr.sample_delay(sccc_decoder_i_sptr self, int which) → unsigned int
sccc_decoder_i_sptr.set_min_noutput_items(sccc_decoder_i_sptr self, int m)
sccc_decoder_i_sptr.set_thread_priority(sccc_decoder_i_sptr self, int priority) → int
sccc_decoder_i_sptr.thread_priority(sccc_decoder_i_sptr self) → int

gnuradio.trellis.sccc_decoder_s(fsm FSMo, int STo0, int SToK, fsm FSMi, int STi0, int STiK,
interleaver INTERLEAVER, int blocklength, int repetitions, gr::trellis::siso_type_t SISO_TYPE) →
sccc_decoder_s_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo0** –
- **SToK** –
- **FSMi** –
- **STi0** –
- **STiK** –
- **INTERLEAVER** –
- **blocklength** –
- **repetitions** –
- **SISO\_TYPE** –

```

sccc_decoder_s_sptr.FSMi(sccc_decoder_s_sptr self) → fsm
sccc_decoder_s_sptr.FSMo(sccc_decoder_s_sptr self) → fsm
sccc_decoder_s_sptr.INTERLEAVER(sccc_decoder_s_sptr self) → interleaver
sccc_decoder_s_sptr.SISO_TYPE(sccc_decoder_s_sptr self) → gr::trellis::siso_type_t
sccc_decoder_s_sptr.STi0(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.STiK(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.STo0(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.SToK(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.active_thread_priority(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.blocklength(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.declare_sample_delay(sccc_decoder_s_sptr self, int which, int delay)
    declare_sample_delay(sccc_decoder_s_sptr self, unsigned int delay)
sccc_decoder_s_sptr.message_subscribers(sccc_decoder_s_sptr self, swig_int_ptr which_port)
    → swig_int_ptr
sccc_decoder_s_sptr.min_noutput_items(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.pc_input_buffers_full_avg(sccc_decoder_s_sptr self, int which) → float
    pc_input_buffers_full_avg(sccc_decoder_s_sptr self) -> pmt_vector_float

```

```

sccc_decoder_s_sptr.pc_noutput_items_avg(sccc_decoder_s_sptr self) → float
sccc_decoder_s_sptr.pc_nproduced_avg(sccc_decoder_s_sptr self) → float
sccc_decoder_s_sptr.pc_output_buffers_full_avg(sccc_decoder_s_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_decoder_s_sptr self) -> pmt_vector_float
sccc_decoder_s_sptr.pc_throughput_avg(sccc_decoder_s_sptr self) → float
sccc_decoder_s_sptr.pc_work_time_avg(sccc_decoder_s_sptr self) → float
sccc_decoder_s_sptr.pc_work_time_total(sccc_decoder_s_sptr self) → float
sccc_decoder_s_sptr.repetitions(sccc_decoder_s_sptr self) → int
sccc_decoder_s_sptr.sample_delay(sccc_decoder_s_sptr self, int which) → unsigned int
sccc_decoder_s_sptr.set_min_noutput_items(sccc_decoder_s_sptr self, int m)
sccc_decoder_s_sptr.set_thread_priority(sccc_decoder_s_sptr self, int priority) → int
sccc_decoder_s_sptr.thread_priority(sccc_decoder_s_sptr self) → int

gnuradio.trellis.sccc_encoder_bb(fsm FSMo, int STo, fsm FSMi, int STi, interleaver
INTERLEAVER, int blocklength) → sccc_encoder_bb_sptr
    SCCC encoder.

```

Constructor Specific Documentation:

- Parameters:**
- **FSMo** –
  - **STo** –
  - **FSMi** –
  - **STi** –
  - **INTERLEAVER** –
  - **blocklength** –

```

sccc_encoder_bb_sptr.FSMi(sccc_encoder_bb_sptr self) → fsm
sccc_encoder_bb_sptr.FSMo(sccc_encoder_bb_sptr self) → fsm
sccc_encoder_bb_sptr.INTERLEAVER(sccc_encoder_bb_sptr self) → interleaver
sccc_encoder_bb_sptr.STi(sccc_encoder_bb_sptr self) → int
sccc_encoder_bb_sptr.STo(sccc_encoder_bb_sptr self) → int
sccc_encoder_bb_sptr.active_thread_priority(sccc_encoder_bb_sptr self) → int
sccc_encoder_bb_sptr.blocklength(sccc_encoder_bb_sptr self) → int
sccc_encoder_bb_sptr.declare_sample_delay(sccc_encoder_bb_sptr self, int which, int
delay)
    declare_sample_delay(sccc_encoder_bb_sptr self, unsigned int delay)

sccc_encoder_bb_sptr.message_subscribers(sccc_encoder_bb_sptr self, swig_int_ptr
which_port) → swig_int_ptr

sccc_encoder_bb_sptr.min_noutput_items(sccc_encoder_bb_sptr self) → int
sccc_encoder_bb_sptr.pc_input_buffers_full_avg(sccc_encoder_bb_sptr self, int which) → float
    pc_input_buffers_full_avg(sccc_encoder_bb_sptr self) -> pmt_vector_float
sccc_encoder_bb_sptr.pc_noutput_items_avg(sccc_encoder_bb_sptr self) → float
sccc_encoder_bb_sptr.pc_nproduced_avg(sccc_encoder_bb_sptr self) → float
sccc_encoder_bb_sptr.pc_output_buffers_full_avg(sccc_encoder_bb_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_encoder_bb_sptr self) -> pmt_vector_float

```

```

sccc_encoder_bb_sptr.pc_throughput_avg(sccc_encoder_bb_sptr self) → float
sccc_encoder_bb_sptr.pc_work_time_avg(sccc_encoder_bb_sptr self) → float
sccc_encoder_bb_sptr.pc_work_time_total(sccc_encoder_bb_sptr self) → float
sccc_encoder_bb_sptr.sample_delay(sccc_encoder_bb_sptr self, int which) → unsigned int
sccc_encoder_bb_sptr.set_min_noutput_items(sccc_encoder_bb_sptr self, int m)
sccc_encoder_bb_sptr.set_thread_priority(sccc_encoder_bb_sptr self, int priority) → int
sccc_encoder_bb_sptr.thread_priority(sccc_encoder_bb_sptr self) → int

gnuradio.trellis.sccc_encoder_bi(fsm FSMo, int STo, fsm FSMi, int STi, interleaver
INTERLEAVER, int blocklength) → sccc_encoder_bi_sptr

```

SCCC encoder.

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo** –
- **FSMi** –
- **STi** –
- **INTERLEAVER** –
- **blocklength** –

```

sccc_encoder_bi_sptr.FSMi(sccc_encoder_bi_sptr self) → fsm
sccc_encoder_bi_sptr.FSMo(sccc_encoder_bi_sptr self) → fsm
sccc_encoder_bi_sptr.INTERLEAVER(sccc_encoder_bi_sptr self) → interleaver
sccc_encoder_bi_sptr.STi(sccc_encoder_bi_sptr self) → int
sccc_encoder_bi_sptr.STo(sccc_encoder_bi_sptr self) → int
sccc_encoder_bi_sptr.active_thread_priority(sccc_encoder_bi_sptr self) → int
sccc_encoder_bi_sptr.blocklength(sccc_encoder_bi_sptr self) → int
sccc_encoder_bi_sptr.declare_sample_delay(sccc_encoder_bi_sptr self, int which, int delay)
declare_sample_delay(sccc_encoder_bi_sptr self, unsigned int delay)
sccc_encoder_bi_sptr.message_subscribers(sccc_encoder_bi_sptr self, swig_int_ptr
which_port) → swig_int_ptr
sccc_encoder_bi_sptr.min_noutput_items(sccc_encoder_bi_sptr self) → int
sccc_encoder_bi_sptr.pc_input_buffers_full_avg(sccc_encoder_bi_sptr self, int which) → float
pc_input_buffers_full_avg(sccc_encoder_bi_sptr self) -> pmt_vector_float
sccc_encoder_bi_sptr.pc_noutput_items_avg(sccc_encoder_bi_sptr self) → float
sccc_encoder_bi_sptr.pc_nproduced_avg(sccc_encoder_bi_sptr self) → float
sccc_encoder_bi_sptr.pc_output_buffers_full_avg(sccc_encoder_bi_sptr self, int which) → float
pc_output_buffers_full_avg(sccc_encoder_bi_sptr self) -> pmt_vector_float
sccc_encoder_bi_sptr.pc_throughput_avg(sccc_encoder_bi_sptr self) → float
sccc_encoder_bi_sptr.pc_work_time_avg(sccc_encoder_bi_sptr self) → float
sccc_encoder_bi_sptr.pc_work_time_total(sccc_encoder_bi_sptr self) → float
sccc_encoder_bi_sptr.sample_delay(sccc_encoder_bi_sptr self, int which) → unsigned int
sccc_encoder_bi_sptr.set_min_noutput_items(sccc_encoder_bi_sptr self, int m)
sccc_encoder_bi_sptr.set_thread_priority(sccc_encoder_bi_sptr self, int priority) → int

```

```
sccc_encoder_bi_sptr.thread_priority(sccc_encoder_bi_sptr self) → int  
gnuradio.trellis.sccc_encoder_bs(fsm FSMo, int STo, fsm FSMi, int STi, interleaver  
INTERLEAVER, int blocklength) → sccc_encoder_bs_sptr  
SCCC encoder.
```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo** –
- **FSMi** –
- **STi** –
- **INTERLEAVER** –
- **blocklength** –

```
sccc_encoder_bs_sptr.FSMi(sccc_encoder_bs_sptr self) → fsm  
sccc_encoder_bs_sptr.FSMo(sccc_encoder_bs_sptr self) → fsm  
sccc_encoder_bs_sptr.INTERLEAVER(sccc_encoder_bs_sptr self) → interleaver  
sccc_encoder_bs_sptr.STi(sccc_encoder_bs_sptr self) → int  
sccc_encoder_bs_sptr.STo(sccc_encoder_bs_sptr self) → int  
sccc_encoder_bs_sptr.active_thread_priority(sccc_encoder_bs_sptr self) → int  
sccc_encoder_bs_sptr.blocklength(sccc_encoder_bs_sptr self) → int  
sccc_encoder_bs_sptr.declare_sample_delay(sccc_encoder_bs_sptr self, int which, int delay)  
    declare_sample_delay(sccc_encoder_bs_sptr self, unsigned int delay)  
sccc_encoder_bs_sptr.message_subscribers(sccc_encoder_bs_sptr self, swig_int_ptr  
which_port) → swig_int_ptr  
sccc_encoder_bs_sptr.min_noutput_items(sccc_encoder_bs_sptr self) → int  
sccc_encoder_bs_sptr.pc_input_buffers_full_avg(sccc_encoder_bs_sptr self, int which) → float  
    pc_input_buffers_full_avg(sccc_encoder_bs_sptr self) -> pmt_vector_float  
sccc_encoder_bs_sptr.pc_noutput_items_avg(sccc_encoder_bs_sptr self) → float  
sccc_encoder_bs_sptr.pc_nproduced_avg(sccc_encoder_bs_sptr self) → float  
sccc_encoder_bs_sptr.pc_output_buffers_full_avg(sccc_encoder_bs_sptr self, int which) → float  
    pc_output_buffers_full_avg(sccc_encoder_bs_sptr self) -> pmt_vector_float  
sccc_encoder_bs_sptr.pc_throughput_avg(sccc_encoder_bs_sptr self) → float  
sccc_encoder_bs_sptr.pc_work_time_avg(sccc_encoder_bs_sptr self) → float  
sccc_encoder_bs_sptr.pc_work_time_total(sccc_encoder_bs_sptr self) → float  
sccc_encoder_bs_sptr.sample_delay(sccc_encoder_bs_sptr self, int which) → unsigned int  
sccc_encoder_bs_sptr.set_min_noutput_items(sccc_encoder_bs_sptr self, int m)  
sccc_encoder_bs_sptr.set_thread_priority(sccc_encoder_bs_sptr self, int priority) → int  
sccc_encoder_bs_sptr.thread_priority(sccc_encoder_bs_sptr self) → int  
gnuradio.trellis.sccc_encoder_ii(fsm FSMo, int STo, fsm FSMi, int STi, interleaver  
INTERLEAVER, int blocklength) → sccc_encoder_ii_sptr  
SCCC encoder.
```

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo** –
- **FSMi** –
- **STi** –
- **INTERLEAVER** –
- **blocklength** –

```
sccc_encoder_ii_sptr.FSMi(sccc_encoder_ii_sptr self) → fsm  
sccc_encoder_ii_sptr.FSMo(sccc_encoder_ii_sptr self) → fsm  
sccc_encoder_ii_sptr.INTERLEAVER(sccc_encoder_ii_sptr self) → interleaver  
sccc_encoder_ii_sptr.STi(sccc_encoder_ii_sptr self) → int  
sccc_encoder_ii_sptr.STo(sccc_encoder_ii_sptr self) → int  
sccc_encoder_ii_sptr.active_thread_priority(sccc_encoder_ii_sptr self) → int  
sccc_encoder_ii_sptr.blocklength(sccc_encoder_ii_sptr self) → int  
sccc_encoder_ii_sptr.declare_sample_delay(sccc_encoder_ii_sptr self, int which, int delay)  
    declare_sample_delay(sccc_encoder_ii_sptr self, unsigned int delay)  
sccc_encoder_ii_sptr.message_subscribers(sccc_encoder_ii_sptr self, swig_int_ptr  
which_port) → swig_int_ptr  
sccc_encoder_ii_sptr.min_noutput_items(sccc_encoder_ii_sptr self) → int  
sccc_encoder_ii_sptr.pc_input_buffers_full_avg(sccc_encoder_ii_sptr self, int which) → float  
    pc_input_buffers_full_avg(sccc_encoder_ii_sptr self) -> pmt_vector_float  
sccc_encoder_ii_sptr.pc_noutput_items_avg(sccc_encoder_ii_sptr self) → float  
sccc_encoder_ii_sptr.pc_nproduced_avg(sccc_encoder_ii_sptr self) → float  
sccc_encoder_ii_sptr.pc_output_buffers_full_avg(sccc_encoder_ii_sptr self, int which) → float  
    pc_output_buffers_full_avg(sccc_encoder_ii_sptr self) -> pmt_vector_float  
sccc_encoder_ii_sptr.pc_throughput_avg(sccc_encoder_ii_sptr self) → float  
sccc_encoder_ii_sptr.pc_work_time_avg(sccc_encoder_ii_sptr self) → float  
sccc_encoder_ii_sptr.pc_work_time_total(sccc_encoder_ii_sptr self) → float  
sccc_encoder_ii_sptr.sample_delay(sccc_encoder_ii_sptr self, int which) → unsigned int  
sccc_encoder_ii_sptr.set_min_noutput_items(sccc_encoder_ii_sptr self, int m)  
sccc_encoder_ii_sptr.set_thread_priority(sccc_encoder_ii_sptr self, int priority) → int  
sccc_encoder_ii_sptr.thread_priority(sccc_encoder_ii_sptr self) → int
```

gnuradio.trellis.**sccc\_encoder\_si**(fsm FSMo, int STo, fsm FSMi, int STi, interleaver  
INTERLEAVER, int blocklength) → sccc\_encoder\_si\_sptr

SCCC encoder.

Constructor Specific Documentation:

**Parameters:**

- **FSMo** –
- **STo** –
- **FSMi** –
- **STi** –
- **INTERLEAVER** –
- **blocklength** –

```
sccc_encoder_si_sptr.FSMi(sccc_encoder_si_sptr self) → fsm  
sccc_encoder_si_sptr.FSMo(sccc_encoder_si_sptr self) → fsm  
sccc_encoder_si_sptr.INTERLEAVER(sccc_encoder_si_sptr self) → interleaver
```

```

sccc_encoder_si_sptr.STi(sccc_encoder_si_sptr self) → int
sccc_encoder_si_sptr.STo(sccc_encoder_si_sptr self) → int
sccc_encoder_si_sptr.active_thread_priority(sccc_encoder_si_sptr self) → int
sccc_encoder_si_sptr.blocklength(sccc_encoder_si_sptr self) → int
sccc_encoder_si_sptr.declare_sample_delay(sccc_encoder_si_sptr self, int which, int delay)
    declare_sample_delay(sccc_encoder_si_sptr self, unsigned int delay)

sccc_encoder_si_sptr.message_subscribers(sccc_encoder_si_sptr self, swig_int_ptr
which_port) → swig_int_ptr

sccc_encoder_si_sptr.min_noutput_items(sccc_encoder_si_sptr self) → int
sccc_encoder_si_sptr.pc_input_buffers_full_avg(sccc_encoder_si_sptr self, int which) → float
    pc_input_buffers_full_avg(sccc_encoder_si_sptr self) -> pmt_vector_float
sccc_encoder_si_sptr.pc_noutput_items_avg(sccc_encoder_si_sptr self) → float
sccc_encoder_si_sptr.pc_nproduced_avg(sccc_encoder_si_sptr self) → float
sccc_encoder_si_sptr.pc_output_buffers_full_avg(sccc_encoder_si_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_encoder_si_sptr self) -> pmt_vector_float
sccc_encoder_si_sptr.pc_throughput_avg(sccc_encoder_si_sptr self) → float
sccc_encoder_si_sptr.pc_work_time_avg(sccc_encoder_si_sptr self) → float
sccc_encoder_si_sptr.pc_work_time_total(sccc_encoder_si_sptr self) → float
sccc_encoder_si_sptr.sample_delay(sccc_encoder_si_sptr self, int which) → unsigned int
sccc_encoder_si_sptr.set_min_noutput_items(sccc_encoder_si_sptr self, int m)
sccc_encoder_si_sptr.set_thread_priority(sccc_encoder_si_sptr self, int priority) → int
sccc_encoder_si_sptr.thread_priority(sccc_encoder_si_sptr self) → int

gnuradio.trellis.sccc_encoder_ss(fsm FSMo, int STo, fsm FSMi, int STi, interleaver
INTERLEAVER, int blocklength) → sccc_encoder_ss_sptr
SCCC encoder.

Constructor Specific Documentation:

Parameters: • FSMo –
              • STo –
              • FSMi –
              • STi –
              • INTERLEAVER –
              • blocklength –

sccc_encoder_ss_sptr.FSMi(sccc_encoder_ss_sptr self) → fsm
sccc_encoder_ss_sptr.FSMo(sccc_encoder_ss_sptr self) → fsm
sccc_encoder_ss_sptr.INTERLEAVER(sccc_encoder_ss_sptr self) → interleaver
sccc_encoder_ss_sptr.STi(sccc_encoder_ss_sptr self) → int
sccc_encoder_ss_sptr.STo(sccc_encoder_ss_sptr self) → int
sccc_encoder_ss_sptr.active_thread_priority(sccc_encoder_ss_sptr self) → int
sccc_encoder_ss_sptr.blocklength(sccc_encoder_ss_sptr self) → int
sccc_encoder_ss_sptr.declare_sample_delay(sccc_encoder_ss_sptr self, int which, int delay)
    declare_sample_delay(sccc_encoder_ss_sptr self, unsigned int delay)

```

```

sccc_encoder_ss_sptr.message_subscribers(sccc_encoder_ss_sptr self, swig_int_ptr
which_port) → swig_int_ptr

sccc_encoder_ss_sptr.min_noutput_items(sccc_encoder_ss_sptr self) → int

sccc_encoder_ss_sptr.pc_input_buffers_full_avg(sccc_encoder_ss_sptr self, int which) → float
    pc_input_buffers_full_avg(sccc_encoder_ss_sptr self) -> pmt_vector_float

sccc_encoder_ss_sptr.pc_noutput_items_avg(sccc_encoder_ss_sptr self) → float

sccc_encoder_ss_sptr.pc_nproduced_avg(sccc_encoder_ss_sptr self) → float

sccc_encoder_ss_sptr.pc_output_buffers_full_avg(sccc_encoder_ss_sptr self, int which) → float
    pc_output_buffers_full_avg(sccc_encoder_ss_sptr self) -> pmt_vector_float

sccc_encoder_ss_sptr.pc_throughput_avg(sccc_encoder_ss_sptr self) → float

sccc_encoder_ss_sptr.pc_work_time_avg(sccc_encoder_ss_sptr self) → float

sccc_encoder_ss_sptr.pc_work_time_total(sccc_encoder_ss_sptr self) → float

sccc_encoder_ss_sptr.sample_delay(sccc_encoder_ss_sptr self, int which) → unsigned int

sccc_encoder_ss_sptr.set_min_noutput_items(sccc_encoder_ss_sptr self, int m)

sccc_encoder_ss_sptr.set_thread_priority(sccc_encoder_ss_sptr self, int priority) → int

sccc_encoder_ss_sptr.thread_priority(sccc_encoder_ss_sptr self) → int

gnuradio.trellis.siso_combined_f(fsm FSM, int K, int S0, int SK, bool POSTI, bool POSTO,
gr::trellis::siso_type_t d_SISO_TYPE, int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t
TYPE) → siso_combined_f_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **POSTI** –
- **POSTO** –
- **d\_SISO\_TYPE** –
- **D** –
- **TABLE** –
- **TYPE** –

```

siso_combined_f_sptr.D(siso_combined_f_sptr self) → int

siso_combined_f_sptr.FSM(siso_combined_f_sptr self) → fsm

siso_combined_f_sptr.K(siso_combined_f_sptr self) → int

siso_combined_f_sptr.POSTI(siso_combined_f_sptr self) → bool

siso_combined_f_sptr.POSTO(siso_combined_f_sptr self) → bool

siso_combined_f_sptr.S0(siso_combined_f_sptr self) → int

siso_combined_f_sptr.SISO_TYPE(siso_combined_f_sptr self) → gr::trellis::siso_type_t

siso_combined_f_sptr.SK(siso_combined_f_sptr self) → int

siso_combined_f_sptr.TABLE(siso_combined_f_sptr self) → pmt_vector_float

siso_combined_f_sptr.TYPE(siso_combined_f_sptr self) → gr::digital::trellis_metric_type_t

siso_combined_f_sptr.active_thread_priority(siso_combined_f_sptr self) → int

siso_combined_f_sptr.declare_sample_delay(siso_combined_f_sptr self, int which, int delay)
    declare_sample_delay(siso_combined_f_sptr self, unsigned int delay)

```

```

siso_combined_f_sptr.message_subscribers(siso_combined_f_sptr      self,      swig_int_ptr
which_port) → swig_int_ptr

siso_combined_f_sptr.min_noutput_items(siso_combined_f_sptr self) → int

siso_combined_f_sptr.pc_input_buffers_full_avg(siso_combined_f_sptr self, int which) → float
    pc_input_buffers_full_avg(siso_combined_f_sptr self) -> pmt_vector_float

siso_combined_f_sptr.pc_noutput_items_avg(siso_combined_f_sptr self) → float

siso_combined_f_sptr.pc_nproduced_avg(siso_combined_f_sptr self) → float

siso_combined_f_sptr.pc_output_buffers_full_avg(siso_combined_f_sptr self, int which) → float
    pc_output_buffers_full_avg(siso_combined_f_sptr self) -> pmt_vector_float

siso_combined_f_sptr.pc_throughput_avg(siso_combined_f_sptr self) → float

siso_combined_f_sptr.pc_work_time_avg(siso_combined_f_sptr self) → float

siso_combined_f_sptr.pc_work_time_total(siso_combined_f_sptr self) → float

siso_combined_f_sptr.sample_delay(siso_combined_f_sptr self, int which) → unsigned int

siso_combined_f_sptr.set_D(siso_combined_f_sptr self, int D)

siso_combined_f_sptr.set_FSM(siso_combined_f_sptr self, fsm FSM)

siso_combined_f_sptr.set_K(siso_combined_f_sptr self, int K)

siso_combined_f_sptr.set_POSTI(siso_combined_f_sptr self, bool POSTI)

siso_combined_f_sptr.set_POSTO(siso_combined_f_sptr self, bool POSTO)

siso_combined_f_sptr.set_S0(siso_combined_f_sptr self, int S0)

siso_combined_f_sptr.set_SISO_TYPE(siso_combined_f_sptr self, gr::trellis::siso_type_t type)

siso_combined_f_sptr.set_SK(siso_combined_f_sptr self, int SK)

siso_combined_f_sptr.set_TABLE(siso_combined_f_sptr self, pmt_vector_float table)

siso_combined_f_sptr.set_TYPE(siso_combined_f_sptr      self,      gr::digital::trellis_metric_type_t
type)

siso_combined_f_sptr.set_min_noutput_items(siso_combined_f_sptr self, int m)

siso_combined_f_sptr.set_thread_priority(siso_combined_f_sptr self, int priority) → int

siso_combined_f_sptr.thread_priority(siso_combined_f_sptr self) → int

```

gnuradio.trellis.siso\_f(fsm FSM, int K, int S0, int SK, bool POSTI, bool POSTO,  
`gr::trellis::siso_type_t d_SISO_TYPE`) → siso\_f\_sptr

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **POSTI** –
- **POSTO** –
- **d\_SISO\_TYPE** –

siso\_f\_sptr.FSM(siso\_f\_sptr self) → fsm

siso\_f\_sptr.K(siso\_f\_sptr self) → int

siso\_f\_sptr.POSTI(siso\_f\_sptr self) → bool

siso\_f\_sptr.POSTO(siso\_f\_sptr self) → bool

siso\_f\_sptr.S0(siso\_f\_sptr self) → int

```

siso_f_sptr.SISO_TYPE(siso_f_sptr self) → gr::trellis::siso_type_t
siso_f_sptr.SK(siso_f_sptr self) → int
siso_f_sptr.active_thread_priority(siso_f_sptr self) → int
siso_f_sptr.declare_sample_delay(siso_f_sptr self, int which, int delay)
    declare_sample_delay(siso_f_sptr self, unsigned int delay)
siso_f_sptr.message_subscribers(siso_f_sptr self, swig_int_ptr which_port) → swig_int_ptr
siso_f_sptr.min_noutput_items(siso_f_sptr self) → int
siso_f_sptr.pc_input_buffers_full_avg(siso_f_sptr self, int which) → float
    pc_input_buffers_full_avg(siso_f_sptr self) -> pmt_vector_float
siso_f_sptr.pc_noutput_items_avg(siso_f_sptr self) → float
siso_f_sptr.pc_nproduced_avg(siso_f_sptr self) → float
siso_f_sptr.pc_output_buffers_full_avg(siso_f_sptr self, int which) → float
    pc_output_buffers_full_avg(siso_f_sptr self) -> pmt_vector_float
siso_f_sptr.pc_throughput_avg(siso_f_sptr self) → float
siso_f_sptr.pc_work_time_avg(siso_f_sptr self) → float
siso_f_sptr.pc_work_time_total(siso_f_sptr self) → float
siso_f_sptr.sample_delay(siso_f_sptr self, int which) → unsigned int
siso_f_sptr.set_FSM(siso_f_sptr self, fsm FSM)
siso_f_sptr.set_K(siso_f_sptr self, int K)
siso_f_sptr.set_POSTI(siso_f_sptr self, bool posti)
siso_f_sptr.set_POSTO(siso_f_sptr self, bool posto)
siso_f_sptr.set_S0(siso_f_sptr self, int S0)
siso_f_sptr.set_SISO_TYPE(siso_f_sptr self, gr::trellis::siso_type_t type)
siso_f_sptr.set_SK(siso_f_sptr self, int SK)
siso_f_sptr.set_min_noutput_items(siso_f_sptr self, int m)
siso_f_sptr.set_thread_priority(siso_f_sptr self, int priority) → int
siso_f_sptr.thread_priority(siso_f_sptr self) → int

```

`gnuradio.trellis.viterbi_b(fsm FSM, int K, int S0, int SK) → viterbi_b_sptr`

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –

```

viterbi_b_sptr.FSM(viterbi_b_sptr self) → fsm
viterbi_b_sptr.K(viterbi_b_sptr self) → int
viterbi_b_sptr.S0(viterbi_b_sptr self) → int
viterbi_b_sptr.SK(viterbi_b_sptr self) → int
viterbi_b_sptr.active_thread_priority(viterbi_b_sptr self) → int
viterbi_b_sptr.declare_sample_delay(viterbi_b_sptr self, int which, int delay)
    declare_sample_delay(viterbi_b_sptr self, unsigned int delay)
viterbi_b_sptr.message_subscribers(viterbi_b_sptr self, swig_int_ptr which_port) →

```

```

swig_int_ptr

viterbi_b_sptr.min_noutput_items(viterbi_b_sptr self) → int
viterbi_b_sptr.pc_input_buffers_full_avg(viterbi_b_sptr self, int which) → float
    pc_input_buffers_full_avg(viterbi_b_sptr self) -> pmt_vector_float

viterbi_b_sptr.pc_noutput_items_avg(viterbi_b_sptr self) → float

viterbi_b_sptr.pc_nproduced_avg(viterbi_b_sptr self) → float

viterbi_b_sptr.pc_output_buffers_full_avg(viterbi_b_sptr self, int which) → float
    pc_output_buffers_full_avg(viterbi_b_sptr self) -> pmt_vector_float

viterbi_b_sptr.pc_throughput_avg(viterbi_b_sptr self) → float

viterbi_b_sptr.pc_work_time_avg(viterbi_b_sptr self) → float

viterbi_b_sptr.pc_work_time_total(viterbi_b_sptr self) → float

viterbi_b_sptr.sample_delay(viterbi_b_sptr self, int which) → unsigned int

viterbi_b_sptr.set_FSM(viterbi_b_sptr self, fsm FSM)

viterbi_b_sptr.set_K(viterbi_b_sptr self, int K)

viterbi_b_sptr.set_S0(viterbi_b_sptr self, int S0)

viterbi_b_sptr.set_SK(viterbi_b_sptr self, int SK)

viterbi_b_sptr.set_min_noutput_items(viterbi_b_sptr self, int m)

viterbi_b_sptr.set_thread_priority(viterbi_b_sptr self, int priority) → int

viterbi_b_sptr.thread_priority(viterbi_b_sptr self) → int

```

`gnuradio.trellis.viterbi_combined_cb(fsm FSM, int K, int S0, int SK, int D, pmt_vector_cfloat TABLE, gr::digital::trellis_metric_type_t TYPE)` → viterbi\_combined\_cb\_sptr

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **D** –
- **TABLE** –
- **TYPE** –

```

viterbi_combined_cb_sptr.D(viterbi_combined_cb_sptr self) → int
viterbi_combined_cb_sptr.FSM(viterbi_combined_cb_sptr self) → fsm
viterbi_combined_cb_sptr.K(viterbi_combined_cb_sptr self) → int
viterbi_combined_cb_sptr.S0(viterbi_combined_cb_sptr self) → int
viterbi_combined_cb_sptr.SK(viterbi_combined_cb_sptr self) → int
viterbi_combined_cb_sptr.TABLE(viterbi_combined_cb_sptr self) → pmt_vector_cfloat
viterbi_combined_cb_sptr.TYPE(viterbi_combined_cb_sptr self) → gr::digital::trellis_metric_type_t
viterbi_combined_cb_sptr.active_thread_priority(viterbi_combined_cb_sptr self) → int
viterbi_combined_cb_sptr.declare_sample_delay(viterbi_combined_cb_sptr self, int which, int delay)
    declare_sample_delay(viterbi_combined_cb_sptr self, unsigned int delay)
viterbi_combined_cb_sptr.message_subscribers(viterbi_combined_cb_sptr self, swig_int_ptr which_port) → swig_int_ptr
viterbi_combined_cb_sptr.min_noutput_items(viterbi_combined_cb_sptr self) → int

```

```

viterbi_combined_cb_sptr.pc_input_buffers_full_avg(viterbi_combined_cb_sptr self, int which) → float
    pc_input_buffers_full_avg(viterbi_combined_cb_sptr self) -> pmt_vector_float

viterbi_combined_cb_sptr.pc_noutput_items_avg(viterbi_combined_cb_sptr self) → float
viterbi_combined_cb_sptr.pc_nproduced_avg(viterbi_combined_cb_sptr self) → float
viterbi_combined_cb_sptr.pc_output_buffers_full_avg(viterbi_combined_cb_sptr self, int which) → float
    pc_output_buffers_full_avg(viterbi_combined_cb_sptr self) -> pmt_vector_float

viterbi_combined_cb_sptr.pc_throughput_avg(viterbi_combined_cb_sptr self) → float
viterbi_combined_cb_sptr.pc_work_time_avg(viterbi_combined_cb_sptr self) → float
viterbi_combined_cb_sptr.pc_work_time_total(viterbi_combined_cb_sptr self) → float
viterbi_combined_cb_sptr.sample_delay(viterbi_combined_cb_sptr self, int which) → unsigned int
viterbi_combined_cb_sptr.set_D(viterbi_combined_cb_sptr self, int D)
viterbi_combined_cb_sptr.set_FSM(viterbi_combined_cb_sptr self, fsm FSM)
viterbi_combined_cb_sptr.set_K(viterbi_combined_cb_sptr self, int K)
viterbi_combined_cb_sptr.set_S0(viterbi_combined_cb_sptr self, int S0)
viterbi_combined_cb_sptr.set_SK(viterbi_combined_cb_sptr self, int SK)
viterbi_combined_cb_sptr.set_TABLE(viterbi_combined_cb_sptr self, pmt_vector_cfloat table)
viterbi_combined_cb_sptr.set_TYPE(viterbi_combined_cb_sptr self, gr:digital::trellis_metric_type_t type) self,
gr:digital::trellis_metric_type_t type)
viterbi_combined_cb_sptr.set_min_noutput_items(viterbi_combined_cb_sptr self, int m)
viterbi_combined_cb_sptr.set_thread_priority(viterbi_combined_cb_sptr self, int priority) → int
viterbi_combined_cb_sptr.thread_priority(viterbi_combined_cb_sptr self) → int
gnuradio.trellis.viterbi_combined_ci(fsm FSM, int K, int S0, int SK, int D, pmt_vector_cfloat TABLE, gr:digital::trellis_metric_type_t TYPE) → viterbi_combined_ci_sptr

```

Constructor Specific Documentation:

- Parameters:**
- **FSM** –
  - **K** –
  - **S0** –
  - **SK** –
  - **D** –
  - **TABLE** –
  - **TYPE** –

```

viterbi_combined_ci_sptr.D(viterbi_combined_ci_sptr self) → int
viterbi_combined_ci_sptr.FSM(viterbi_combined_ci_sptr self) → fsm
viterbi_combined_ci_sptr.K(viterbi_combined_ci_sptr self) → int
viterbi_combined_ci_sptr.S0(viterbi_combined_ci_sptr self) → int
viterbi_combined_ci_sptr.SK(viterbi_combined_ci_sptr self) → int
viterbi_combined_ci_sptr.TABLE(viterbi_combined_ci_sptr self) → pmt_vector_cfloat
viterbi_combined_ci_sptr.TYPE(viterbi_combined_ci_sptr self) → gr:digital::trellis_metric_type_t
viterbi_combined_ci_sptr.active_thread_priority(viterbi_combined_ci_sptr self) → int
viterbi_combined_ci_sptr.declare_sample_delay(viterbi_combined_ci_sptr self, int which, int

```

```

delay)
declare_sample_delay(viterbi_combined_ci_sptr self, unsigned int delay)

viterbi_combined_ci_sptr.message_subscribers(viterbi_combined_ci_sptr self, swig_int_ptr
which_port) → swig_int_ptr

viterbi_combined_ci_sptr.min_noutput_items(viterbi_combined_ci_sptr self) → int

viterbi_combined_ci_sptr.pc_input_buffers_full_avg(viterbi_combined_ci_sptr self, int
which) → float
pc_input_buffers_full_avg(viterbi_combined_ci_sptr self) → pmt_vector_float

viterbi_combined_ci_sptr.pc_noutput_items_avg(viterbi_combined_ci_sptr self) → float

viterbi_combined_ci_sptr.pc_nproduced_avg(viterbi_combined_ci_sptr self) → float

viterbi_combined_ci_sptr.pc_output_buffers_full_avg(viterbi_combined_ci_sptr self, int
which) → float
pc_output_buffers_full_avg(viterbi_combined_ci_sptr self) → pmt_vector_float

viterbi_combined_ci_sptr.pc_throughput_avg(viterbi_combined_ci_sptr self) → float

viterbi_combined_ci_sptr.pc_work_time_avg(viterbi_combined_ci_sptr self) → float

viterbi_combined_ci_sptr.pc_work_time_total(viterbi_combined_ci_sptr self) → float

viterbi_combined_ci_sptr.sample_delay(viterbi_combined_ci_sptr self, int which) → unsigned
int

viterbi_combined_ci_sptr.set_D(viterbi_combined_ci_sptr self, int D)

viterbi_combined_ci_sptr.set_FSM(viterbi_combined_ci_sptr self, fsm FSM)

viterbi_combined_ci_sptr.set_K(viterbi_combined_ci_sptr self, int K)

viterbi_combined_ci_sptr.set_S0(viterbi_combined_ci_sptr self, int S0)

viterbi_combined_ci_sptr.set_SK(viterbi_combined_ci_sptr self, int SK)

viterbi_combined_ci_sptr.set_TABLE(viterbi_combined_ci_sptr self, pmt_vector_cfloat table)

viterbi_combined_ci_sptr.set_TYPE(viterbi_combined_ci_sptr self, gr::digital::trellis_metric_type_t
type)

viterbi_combined_ci_sptr.set_min_noutput_items(viterbi_combined_ci_sptr self, int m)

viterbi_combined_ci_sptr.set_thread_priority(viterbi_combined_ci_sptr self, int priority) →
int

viterbi_combined_ci_sptr.thread_priority(viterbi_combined_ci_sptr self) → int

gnuradio.trellis.viterbi_combined_cs(fsm FSM, int K, int S0, int SK, int D, pmt_vector_cfloat
TABLE, gr::digital::trellis_metric_type_t TYPE) → viterbi_combined_cs_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **D** –
- **TABLE** –
- **TYPE** –

```

viterbi_combined_cs_sptr.D(viterbi_combined_cs_sptr self) → int

viterbi_combined_cs_sptr.FSM(viterbi_combined_cs_sptr self) → fsm

viterbi_combined_cs_sptr.K(viterbi_combined_cs_sptr self) → int

viterbi_combined_cs_sptr.S0(viterbi_combined_cs_sptr self) → int

viterbi_combined_cs_sptr.SK(viterbi_combined_cs_sptr self) → int

```

```

viterbi_combined_cs_sptr.TABLE(viterbi_combined_cs_sptr self) → pmt_vector_cfloat

viterbi_combined_cs_sptr.TYPE(viterbi_combined_cs_sptr self) → gr::digital::trellis_metric_type_t

viterbi_combined_cs_sptr.active_thread_priority(viterbi_combined_cs_sptr self) → int

viterbi_combined_cs_sptr.declare_sample_delay(viterbi_combined_cs_sptr self, int which, int delay)
    declare_sample_delay(viterbi_combined_cs_sptr self, unsigned int delay)

viterbi_combined_cs_sptr.message_subscribers(viterbi_combined_cs_sptr self, swig_int_ptr which_port) → swig_int_ptr

viterbi_combined_cs_sptr.min_noutput_items(viterbi_combined_cs_sptr self) → int

viterbi_combined_cs_sptr.pc_input_buffers_full_avg(viterbi_combined_cs_sptr self, int which) → float
    pc_input_buffers_full_avg(viterbi_combined_cs_sptr self) -> pmt_vector_float

viterbi_combined_cs_sptr.pc_noutput_items_avg(viterbi_combined_cs_sptr self) → float

viterbi_combined_cs_sptr.pc_nproduced_avg(viterbi_combined_cs_sptr self) → float

viterbi_combined_cs_sptr.pc_output_buffers_full_avg(viterbi_combined_cs_sptr self, int which) → float
    pc_output_buffers_full_avg(viterbi_combined_cs_sptr self) -> pmt_vector_float

viterbi_combined_cs_sptr.pc_throughput_avg(viterbi_combined_cs_sptr self) → float

viterbi_combined_cs_sptr.pc_work_time_avg(viterbi_combined_cs_sptr self) → float

viterbi_combined_cs_sptr.pc_work_time_total(viterbi_combined_cs_sptr self) → float

viterbi_combined_cs_sptr.sample_delay(viterbi_combined_cs_sptr self, int which) → unsigned int

viterbi_combined_cs_sptr.set_D(viterbi_combined_cs_sptr self, int D)

viterbi_combined_cs_sptr.set_FSM(viterbi_combined_cs_sptr self, fsm FSM)

viterbi_combined_cs_sptr.set_K(viterbi_combined_cs_sptr self, int K)

viterbi_combined_cs_sptr.set_S0(viterbi_combined_cs_sptr self, int S0)

viterbi_combined_cs_sptr.set_SK(viterbi_combined_cs_sptr self, int SK)

viterbi_combined_cs_sptr.set_TABLE(viterbi_combined_cs_sptr self, pmt_vector_cfloat table)

viterbi_combined_cs_sptr.set_TYPE(viterbi_combined_cs_sptr self, gr::digital::trellis_metric_type_t type)

viterbi_combined_cs_sptr.set_min_noutput_items(viterbi_combined_cs_sptr self, int m)

viterbi_combined_cs_sptr.set_thread_priority(viterbi_combined_cs_sptr self, int priority) → int

viterbi_combined_cs_sptr.thread_priority(viterbi_combined_cs_sptr self) → int

```

`gnuradio.trellis.viterbi_combined_fb(fsm FSM, int K, int S0, int SK, int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t TYPE)` → viterbi\_combined\_fb\_sptr

Constructor Specific Documentation:

- Parameters:**
- **FSM** –
  - **K** –
  - **S0** –
  - **SK** –
  - **D** –
  - **TABLE** –
  - **TYPE** –

`viterbi_combined_fb_sptr.D(viterbi_combined_fb_sptr self)` → int

```

viterbi_combined_fb_sptr.FSM(viterbi_combined_fb_sptr self) → fsm
viterbi_combined_fb_sptr.K(viterbi_combined_fb_sptr self) → int
viterbi_combined_fb_sptr.S0(viterbi_combined_fb_sptr self) → int
viterbi_combined_fb_sptr.SK(viterbi_combined_fb_sptr self) → int
viterbi_combined_fb_sptr.TABLE(viterbi_combined_fb_sptr self) → pmt_vector_float
viterbi_combined_fb_sptr.TYPE(viterbi_combined_fb_sptr self) → gr::digital::trellis_metric_type_t
viterbi_combined_fb_sptr.active_thread_priority(viterbi_combined_fb_sptr self) → int
viterbi_combined_fb_sptr.declare_sample_delay(viterbi_combined_fb_sptr self, int which, int delay)
    declare_sample_delay(viterbi_combined_fb_sptr self, unsigned int delay)

viterbi_combined_fb_sptr.message_subscribers(viterbi_combined_fb_sptr self, swig_int_ptr which_port) → swig_int_ptr
viterbi_combined_fb_sptr.min_noutput_items(viterbi_combined_fb_sptr self) → int
viterbi_combined_fb_sptr.pc_input_buffers_full_avg(viterbi_combined_fb_sptr self, int which) → float
    pc_input_buffers_full_avg(viterbi_combined_fb_sptr self) → pmt_vector_float
viterbi_combined_fb_sptr.pc_noutput_items_avg(viterbi_combined_fb_sptr self) → float
viterbi_combined_fb_sptr.pc_nproduced_avg(viterbi_combined_fb_sptr self) → float
viterbi_combined_fb_sptr.pc_output_buffers_full_avg(viterbi_combined_fb_sptr self, int which) → float
    pc_output_buffers_full_avg(viterbi_combined_fb_sptr self) → pmt_vector_float
viterbi_combined_fb_sptr.pc_throughput_avg(viterbi_combined_fb_sptr self) → float
viterbi_combined_fb_sptr.pc_work_time_avg(viterbi_combined_fb_sptr self) → float
viterbi_combined_fb_sptr.pc_work_time_total(viterbi_combined_fb_sptr self) → float
viterbi_combined_fb_sptr.sample_delay(viterbi_combined_fb_sptr self, int which) → unsigned int
viterbi_combined_fb_sptr.set_D(viterbi_combined_fb_sptr self, int D)
viterbi_combined_fb_sptr.set_FSM(viterbi_combined_fb_sptr self, fsm FSM)
viterbi_combined_fb_sptr.set_K(viterbi_combined_fb_sptr self, int K)
viterbi_combined_fb_sptr.set_S0(viterbi_combined_fb_sptr self, int S0)
viterbi_combined_fb_sptr.set_SK(viterbi_combined_fb_sptr self, int SK)
viterbi_combined_fb_sptr.set_TABLE(viterbi_combined_fb_sptr self, pmt_vector_float table)
viterbi_combined_fb_sptr.set_TYPE(viterbi_combined_fb_sptr self, gr::digital::trellis_metric_type_t type)
viterbi_combined_fb_sptr.set_min_noutput_items(viterbi_combined_fb_sptr self, int m)
viterbi_combined_fb_sptr.set_thread_priority(viterbi_combined_fb_sptr self, int priority) → int
viterbi_combined_fb_sptr.thread_priority(viterbi_combined_fb_sptr self) → int

gnuradio.trellis.viterbi_combined_fi(fsm FSM, int K, int S0, int SK, int D, pmt_vector_float TABLE, gr::digital::trellis_metric_type_t TYPE) → viterbi_combined_fi_sptr
Constructor Specific Documentation:
```

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **D** –
- **TABLE** –
- **TYPE** –

```
viterbi_combined_fi_sptr.D(viterbi_combined_fi_sptr self) → int  
viterbi_combined_fi_sptr.FSM(viterbi_combined_fi_sptr self) → fsm  
viterbi_combined_fi_sptr.K(viterbi_combined_fi_sptr self) → int  
viterbi_combined_fi_sptr.S0(viterbi_combined_fi_sptr self) → int  
viterbi_combined_fi_sptr.SK(viterbi_combined_fi_sptr self) → int  
viterbi_combined_fi_sptr.TABLE(viterbi_combined_fi_sptr self) → pmt_vector_float  
viterbi_combined_fi_sptr.TYPE(viterbi_combined_fi_sptr self) → gr::digital::trellis_metric_type_t  
viterbi_combined_fi_sptr.active_thread_priority(viterbi_combined_fi_sptr self) → int  
viterbi_combined_fi_sptr.declare_sample_delay(viterbi_combined_fi_sptr self, int which, int delay)  
    declare_sample_delay(viterbi_combined_fi_sptr self, unsigned int delay)  
viterbi_combined_fi_sptr.message_subscribers(viterbi_combined_fi_sptr self, swig_int_ptr which_port) → swig_int_ptr  
viterbi_combined_fi_sptr.min_noutput_items(viterbi_combined_fi_sptr self) → int  
viterbi_combined_fi_sptr.pc_input_buffers_full_avg(viterbi_combined_fi_sptr self, int which) → float  
    pc_input_buffers_full_avg(viterbi_combined_fi_sptr self) → pmt_vector_float  
viterbi_combined_fi_sptr.pc_noutput_items_avg(viterbi_combined_fi_sptr self) → float  
viterbi_combined_fi_sptr.pc_nproduced_avg(viterbi_combined_fi_sptr self) → float  
viterbi_combined_fi_sptr.pc_output_buffers_full_avg(viterbi_combined_fi_sptr self, int which) → float  
    pc_output_buffers_full_avg(viterbi_combined_fi_sptr self) → pmt_vector_float  
viterbi_combined_fi_sptr.pc_throughput_avg(viterbi_combined_fi_sptr self) → float  
viterbi_combined_fi_sptr.pc_work_time_avg(viterbi_combined_fi_sptr self) → float  
viterbi_combined_fi_sptr.pc_work_time_total(viterbi_combined_fi_sptr self) → float  
viterbi_combined_fi_sptr.sample_delay(viterbi_combined_fi_sptr self, int which) → unsigned int  
viterbi_combined_fi_sptr.set_D(viterbi_combined_fi_sptr self, int D)  
viterbi_combined_fi_sptr.set_FSM(viterbi_combined_fi_sptr self, fsm FSM)  
viterbi_combined_fi_sptr.set_K(viterbi_combined_fi_sptr self, int K)  
viterbi_combined_fi_sptr.set_S0(viterbi_combined_fi_sptr self, int S0)  
viterbi_combined_fi_sptr.set_SK(viterbi_combined_fi_sptr self, int SK)  
viterbi_combined_fi_sptr.set_TABLE(viterbi_combined_fi_sptr self, pmt_vector_float table)  
viterbi_combined_fi_sptr.set_TYPE(viterbi_combined_fi_sptr self, gr::digital::trellis_metric_type_t type)  
viterbi_combined_fi_sptr.set_min_noutput_items(viterbi_combined_fi_sptr self, int m)  
viterbi_combined_fi_sptr.set_thread_priority(viterbi_combined_fi_sptr self, int priority) → int
```

**viterbi\_combined\_fs\_sptr.thread\_priority(viterbi\_combined\_fs\_sptr self)** → int  
**gnuradio.trellis.viterbi\_combined\_fs(fsm FSM, int K, int S0, int SK, int D, pmt\_vector\_float TABLE, gr::digital::trellis\_metric\_type\_t TYPE)** → viterbi\_combined\_fs\_sptr  
 Constructor Specific Documentation:  
**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **D** –
- **TABLE** –
- **TYPE** –

**viterbi\_combined\_fs\_sptr.D(viterbi\_combined\_fs\_sptr self)** → int  
**viterbi\_combined\_fs\_sptr.FSM(viterbi\_combined\_fs\_sptr self)** → fsm  
**viterbi\_combined\_fs\_sptr.K(viterbi\_combined\_fs\_sptr self)** → int  
**viterbi\_combined\_fs\_sptr.S0(viterbi\_combined\_fs\_sptr self)** → int  
**viterbi\_combined\_fs\_sptr.SK(viterbi\_combined\_fs\_sptr self)** → int  
**viterbi\_combined\_fs\_sptr.TABLE(viterbi\_combined\_fs\_sptr self)** → pmt\_vector\_float  
**viterbi\_combined\_fs\_sptr.TYPE(viterbi\_combined\_fs\_sptr self)** → gr::digital::trellis\_metric\_type\_t  
**viterbi\_combined\_fs\_sptr.active\_thread\_priority(viterbi\_combined\_fs\_sptr self)** → int  
**viterbi\_combined\_fs\_sptr.declare\_sample\_delay(viterbi\_combined\_fs\_sptr self, int which, int delay)**  
     declare\_sample\_delay(viterbi\_combined\_fs\_sptr self, unsigned int delay)  
**viterbi\_combined\_fs\_sptr.message\_subscribers(viterbi\_combined\_fs\_sptr self, swig\_int\_ptr which\_port)** → swig\_int\_ptr  
**viterbi\_combined\_fs\_sptr.min\_noutput\_items(viterbi\_combined\_fs\_sptr self)** → int  
**viterbi\_combined\_fs\_sptr.pc\_input\_buffers\_full\_avg(viterbi\_combined\_fs\_sptr self, int which)** → float  
     pc\_input\_buffers\_full\_avg(viterbi\_combined\_fs\_sptr self) → pmt\_vector\_float  
**viterbi\_combined\_fs\_sptr.pc\_noutput\_items\_avg(viterbi\_combined\_fs\_sptr self)** → float  
**viterbi\_combined\_fs\_sptr.pc\_nproduced\_avg(viterbi\_combined\_fs\_sptr self)** → float  
**viterbi\_combined\_fs\_sptr.pc\_output\_buffers\_full\_avg(viterbi\_combined\_fs\_sptr self, int which)** → float  
     pc\_output\_buffers\_full\_avg(viterbi\_combined\_fs\_sptr self) → pmt\_vector\_float  
**viterbi\_combined\_fs\_sptr.pc\_throughput\_avg(viterbi\_combined\_fs\_sptr self)** → float  
**viterbi\_combined\_fs\_sptr.pc\_work\_time\_avg(viterbi\_combined\_fs\_sptr self)** → float  
**viterbi\_combined\_fs\_sptr.pc\_work\_time\_total(viterbi\_combined\_fs\_sptr self)** → float  
**viterbi\_combined\_fs\_sptr.sample\_delay(viterbi\_combined\_fs\_sptr self, int which)** → unsigned int  
**viterbi\_combined\_fs\_sptr.set\_D(viterbi\_combined\_fs\_sptr self, int D)**  
**viterbi\_combined\_fs\_sptr.set\_FSM(viterbi\_combined\_fs\_sptr self, fsm FSM)**  
**viterbi\_combined\_fs\_sptr.set\_K(viterbi\_combined\_fs\_sptr self, int K)**  
**viterbi\_combined\_fs\_sptr.set\_S0(viterbi\_combined\_fs\_sptr self, int S0)**  
**viterbi\_combined\_fs\_sptr.set\_SK(viterbi\_combined\_fs\_sptr self, int SK)**  
**viterbi\_combined\_fs\_sptr.set\_TABLE(viterbi\_combined\_fs\_sptr self, pmt\_vector\_float table)**

```
viterbi_combined_fs_sptr.set_TYPE(viterbi_combined_fs_sptr self, gr::digital::trellis_metric_type_t type)
```

```
viterbi_combined_fs_sptr.set_min_noutput_items(viterbi_combined_fs_sptr self, int m)
```

```
viterbi_combined_fs_sptr.set_thread_priority(viterbi_combined_fs_sptr self, int priority) → int
```

```
viterbi_combined_fs_sptr.thread_priority(viterbi_combined_fs_sptr self) → int
```

```
gnuradio.trellis.viterbi_combined_ib(fsm FSM, int K, int S0, int SK, int D, std::vector<int, std::allocator<int>> const & TABLE, gr::digital::trellis_metric_type_t TYPE) → viterbi_combined_ib_sptr
```

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **D** –
- **TABLE** –
- **TYPE** –

```
viterbi_combined_ib_sptr.D(viterbi_combined_ib_sptr self) → int
```

```
viterbi_combined_ib_sptr.FSM(viterbi_combined_ib_sptr self) → fsm
```

```
viterbi_combined_ib_sptr.K(viterbi_combined_ib_sptr self) → int
```

```
viterbi_combined_ib_sptr.S0(viterbi_combined_ib_sptr self) → int
```

```
viterbi_combined_ib_sptr.SK(viterbi_combined_ib_sptr self) → int
```

```
viterbi_combined_ib_sptr.TABLE(viterbi_combined_ib_sptr self) → std::vector<int, std::allocator<int>>
```

```
viterbi_combined_ib_sptr.TYPE(viterbi_combined_ib_sptr self) → gr::digital::trellis_metric_type_t
```

```
viterbi_combined_ib_sptr.active_thread_priority(viterbi_combined_ib_sptr self) → int
```

```
viterbi_combined_ib_sptr.declare_sample_delay(viterbi_combined_ib_sptr self, int which, int delay)
```

```
declare_sample_delay(viterbi_combined_ib_sptr self, unsigned int delay)
```

```
viterbi_combined_ib_sptr.message_subscribers(viterbi_combined_ib_sptr self, swig_int_ptr which_port) → swig_int_ptr
```

```
viterbi_combined_ib_sptr.min_noutput_items(viterbi_combined_ib_sptr self) → int
```

```
viterbi_combined_ib_sptr.pc_input_buffers_full_avg(viterbi_combined_ib_sptr self, int which) → float
```

```
pc_input_buffers_full_avg(viterbi_combined_ib_sptr self) → pmt_vector_float
```

```
viterbi_combined_ib_sptr.pc_noutput_items_avg(viterbi_combined_ib_sptr self) → float
```

```
viterbi_combined_ib_sptr.pc_nproduced_avg(viterbi_combined_ib_sptr self) → float
```

```
viterbi_combined_ib_sptr.pc_output_buffers_full_avg(viterbi_combined_ib_sptr self, int which) → float
```

```
pc_output_buffers_full_avg(viterbi_combined_ib_sptr self) → pmt_vector_float
```

```
viterbi_combined_ib_sptr.pc_throughput_avg(viterbi_combined_ib_sptr self) → float
```

```
viterbi_combined_ib_sptr.pc_work_time_avg(viterbi_combined_ib_sptr self) → float
```

```
viterbi_combined_ib_sptr.pc_work_time_total(viterbi_combined_ib_sptr self) → float
```

```
viterbi_combined_ib_sptr.sample_delay(viterbi_combined_ib_sptr self, int which) → unsigned int
```

```
viterbi_combined_ib_sptr.set_D(viterbi_combined_ib_sptr self, int D)
```

```

viterbi_combined_ib_sptr.set_FSM(viterbi_combined_ib_sptr self, fsm FSM)

viterbi_combined_ib_sptr.set_K(viterbi_combined_ib_sptr self, int K)

viterbi_combined_ib_sptr.set_S0(viterbi_combined_ib_sptr self, int S0)

viterbi_combined_ib_sptr.set_SK(viterbi_combined_ib_sptr self, int SK)

viterbi_combined_ib_sptr.set_TABLE(viterbi_combined_ib_sptr self, std::vector<int, std::allocator<int>> const & table)

viterbi_combined_ib_sptr.set_TYPE(viterbi_combined_ib_sptr self, gr::digital::trellis_metric_type_t type)

viterbi_combined_ib_sptr.set_min_noutput_items(viterbi_combined_ib_sptr self, int m)

viterbi_combined_ib_sptr.set_thread_priority(viterbi_combined_ib_sptr self, int priority) →
int

viterbi_combined_ib_sptr.thread_priority(viterbi_combined_ib_sptr self) → int

```

`gnuradio.trellis.viterbi_combined_ii(fsm FSM, int K, int S0, int SK, int D, std::vector<int, std::allocator<int>> const & TABLE, gr::digital::trellis_metric_type_t TYPE) → viterbi_combined_ii_sptr`

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **D** –
- **TABLE** –
- **TYPE** –

```

viterbi_combined_ii_sptr.D(viterbi_combined_ii_sptr self) → int

viterbi_combined_ii_sptr.FSM(viterbi_combined_ii_sptr self) → fsm

viterbi_combined_ii_sptr.K(viterbi_combined_ii_sptr self) → int

viterbi_combined_ii_sptr.S0(viterbi_combined_ii_sptr self) → int

viterbi_combined_ii_sptr.SK(viterbi_combined_ii_sptr self) → int

viterbi_combined_ii_sptr.TABLE(viterbi_combined_ii_sptr self) → std::vector<int, std::allocator<int>>

viterbi_combined_ii_sptr.TYPE(viterbi_combined_ii_sptr self) → gr::digital::trellis_metric_type_t

viterbi_combined_ii_sptr.active_thread_priority(viterbi_combined_ii_sptr self) → int

viterbi_combined_ii_sptr.declare_sample_delay(viterbi_combined_ii_sptr self, int which, int delay)
    declare_sample_delay(viterbi_combined_ii_sptr self, unsigned int delay)

viterbi_combined_ii_sptr.message_subscribers(viterbi_combined_ii_sptr self, swig_int_ptr which_port) → swig_int_ptr

viterbi_combined_ii_sptr.min_noutput_items(viterbi_combined_ii_sptr self) → int

viterbi_combined_ii_sptr.pc_input_buffers_full_avg(viterbi_combined_ii_sptr self, int which) → float
    pc_input_buffers_full_avg(viterbi_combined_ii_sptr self) → pmt_vector_float

viterbi_combined_ii_sptr.pc_noutput_items_avg(viterbi_combined_ii_sptr self) → float

viterbi_combined_ii_sptr.pc_nproduced_avg(viterbi_combined_ii_sptr self) → float

viterbi_combined_ii_sptr.pc_output_buffers_full_avg(viterbi_combined_ii_sptr self, int which) → float
    pc_output_buffers_full_avg(viterbi_combined_ii_sptr self) → pmt_vector_float

```

```

viterbi_combined_ii_sptr.pc_throughput_avg(viterbi_combined_ii_sptr self) → float
viterbi_combined_ii_sptr.pc_work_time_avg(viterbi_combined_ii_sptr self) → float
viterbi_combined_ii_sptr.pc_work_time_total(viterbi_combined_ii_sptr self) → float
viterbi_combined_ii_sptr.sample_delay(viterbi_combined_ii_sptr self, int which) → unsigned int
viterbi_combined_ii_sptr.set_D(viterbi_combined_ii_sptr self, int D)
viterbi_combined_ii_sptr.set_FSM(viterbi_combined_ii_sptr self, fsm FSM)
viterbi_combined_ii_sptr.set_K(viterbi_combined_ii_sptr self, int K)
viterbi_combined_ii_sptr.set_S0(viterbi_combined_ii_sptr self, int S0)
viterbi_combined_ii_sptr.set_SK(viterbi_combined_ii_sptr self, int SK)
viterbi_combined_ii_sptr.set_TABLE(viterbi_combined_ii_sptr self, std::vector<int, std::allocator<int>> const & table)
viterbi_combined_ii_sptr.set_TYPE(viterbi_combined_ii_sptr self, gr::digital::trellis_metric_type_t type)
viterbi_combined_ii_sptr.set_min_noutput_items(viterbi_combined_ii_sptr self, int m)
viterbi_combined_ii_sptr.set_thread_priority(viterbi_combined_ii_sptr self, int priority) → int
viterbi_combined_ii_sptr.thread_priority(viterbi_combined_ii_sptr self) → int
gnuradio.trellis.viterbi_combined_is(fsm FSM, int K, int S0, int SK, int D, std::vector<int, std::allocator<int>> const & TABLE, gr::digital::trellis_metric_type_t TYPE) → viterbi_combined_is_sptr

```

Constructor Specific Documentation:

- Parameters:**
- **FSM** –
  - **K** –
  - **S0** –
  - **SK** –
  - **D** –
  - **TABLE** –
  - **TYPE** –

```

viterbi_combined_is_sptr.D(viterbi_combined_is_sptr self) → int
viterbi_combined_is_sptr.FSM(viterbi_combined_is_sptr self) → fsm
viterbi_combined_is_sptr.K(viterbi_combined_is_sptr self) → int
viterbi_combined_is_sptr.S0(viterbi_combined_is_sptr self) → int
viterbi_combined_is_sptr.SK(viterbi_combined_is_sptr self) → int
viterbi_combined_is_sptr.TABLE(viterbi_combined_is_sptr self) → std::vector<int, std::allocator<int>>
viterbi_combined_is_sptr.TYPE(viterbi_combined_is_sptr self) → gr::digital::trellis_metric_type_t
viterbi_combined_is_sptr.active_thread_priority(viterbi_combined_is_sptr self) → int
viterbi_combined_is_sptr.declare_sample_delay(viterbi_combined_is_sptr self, int which, int delay)
    declare_sample_delay(viterbi_combined_is_sptr self, unsigned int delay)
viterbi_combined_is_sptr.message_subscribers(viterbi_combined_is_sptr self, swig_int_ptr which_port) → swig_int_ptr
viterbi_combined_is_sptr.min_noutput_items(viterbi_combined_is_sptr self) → int
viterbi_combined_is_sptr.pc_input_buffers_full_avg(viterbi_combined_is_sptr self, int

```

```

which) → float
pc_input_buffers_full_avg(viterbi_combined_is_sptr self) → pmt_vector_float

viterbi_combined_is_sptr.pc_noutput_items_avg(viterbi_combined_is_sptr self) → float

viterbi_combined_is_sptr.pc_nproduced_avg(viterbi_combined_is_sptr self) → float

viterbi_combined_is_sptr.pc_output_buffers_full_avg(viterbi_combined_is_sptr self, int which) → float
pc_output_buffers_full_avg(viterbi_combined_is_sptr self) → pmt_vector_float

viterbi_combined_is_sptr.pc_throughput_avg(viterbi_combined_is_sptr self) → float

viterbi_combined_is_sptr.pc_work_time_avg(viterbi_combined_is_sptr self) → float

viterbi_combined_is_sptr.pc_work_time_total(viterbi_combined_is_sptr self) → float

viterbi_combined_is_sptr.sample_delay(viterbi_combined_is_sptr self, int which) → unsigned int

viterbi_combined_is_sptr.set_D(viterbi_combined_is_sptr self, int D)

viterbi_combined_is_sptr.set_FSM(viterbi_combined_is_sptr self, fsm FSM)

viterbi_combined_is_sptr.set_K(viterbi_combined_is_sptr self, int K)

viterbi_combined_is_sptr.set_S0(viterbi_combined_is_sptr self, int S0)

viterbi_combined_is_sptr.set_SK(viterbi_combined_is_sptr self, int SK)

viterbi_combined_is_sptr.set_TABLE(viterbi_combined_is_sptr self, std::vector<int, std::allocator<int>> const & table)

viterbi_combined_is_sptr.set_TYPE(viterbi_combined_is_sptr self, gr::digital::trellis_metric_type_t type)

```

viterbi\_combined\_is\_sptr.set\_min\_noutput\_items(viterbi\_combined\_is\_sptr self, int m)

viterbi\_combined\_is\_sptr.set\_thread\_priority(viterbi\_combined\_is\_sptr self, int priority) → int

viterbi\_combined\_is\_sptr.thread\_priority(viterbi\_combined\_is\_sptr self) → int

gnuradio.trellis.viterbi\_combined\_sb(fsm FSM, int K, int S0, int SK, int D, std::vector<short, std::allocator<short>> const & TABLE, gr::digital::trellis\_metric\_type\_t TYPE) → viterbi\_combined\_sb\_sptr

Constructor Specific Documentation:

- Parameters:**
- **FSM** –
  - **K** –
  - **S0** –
  - **SK** –
  - **D** –
  - **TABLE** –
  - **TYPE** –

viterbi\_combined\_sb\_sptr.D(viterbi\_combined\_sb\_sptr self) → int

viterbi\_combined\_sb\_sptr.FSM(viterbi\_combined\_sb\_sptr self) → fsm

viterbi\_combined\_sb\_sptr.K(viterbi\_combined\_sb\_sptr self) → int

viterbi\_combined\_sb\_sptr.S0(viterbi\_combined\_sb\_sptr self) → int

viterbi\_combined\_sb\_sptr.SK(viterbi\_combined\_sb\_sptr self) → int

viterbi\_combined\_sb\_sptr.TABLE(viterbi\_combined\_sb\_sptr self) → std::vector<short, std::allocator<short>>

viterbi\_combined\_sb\_sptr.TYPE(viterbi\_combined\_sb\_sptr self) → gr::digital::trellis\_metric\_type\_t

viterbi\_combined\_sb\_sptr.active\_thread\_priority(viterbi\_combined\_sb\_sptr self) → int

```

viterbi_combined_sb_sptr.declare_sample_delay(viterbi_combined_sb_sptr self, int which, int delay)
    declare_sample_delay(viterbi_combined_sb_sptr self, unsigned int delay)

viterbi_combined_sb_sptr.message_subscribers(viterbi_combined_sb_sptr self, swig_int_ptr which_port) → swig_int_ptr

viterbi_combined_sb_sptr.min_noutput_items(viterbi_combined_sb_sptr self) → int

viterbi_combined_sb_sptr.pc_input_buffers_full_avg(viterbi_combined_sb_sptr self, int which) → float
    pc_input_buffers_full_avg(viterbi_combined_sb_sptr self) -> pmt_vector_float

viterbi_combined_sb_sptr.pc_noutput_items_avg(viterbi_combined_sb_sptr self) → float

viterbi_combined_sb_sptr.pc_nproduced_avg(viterbi_combined_sb_sptr self) → float

viterbi_combined_sb_sptr.pc_output_buffers_full_avg(viterbi_combined_sb_sptr self, int which) → float
    pc_output_buffers_full_avg(viterbi_combined_sb_sptr self) -> pmt_vector_float

viterbi_combined_sb_sptr.pc_throughput_avg(viterbi_combined_sb_sptr self) → float

viterbi_combined_sb_sptr.pc_work_time_avg(viterbi_combined_sb_sptr self) → float

viterbi_combined_sb_sptr.pc_work_time_total(viterbi_combined_sb_sptr self) → float

viterbi_combined_sb_sptr.sample_delay(viterbi_combined_sb_sptr self, int which) → unsigned int

viterbi_combined_sb_sptr.set_D(viterbi_combined_sb_sptr self, int D)

viterbi_combined_sb_sptr.set_FSM(viterbi_combined_sb_sptr self, fsm FSM)

viterbi_combined_sb_sptr.set_K(viterbi_combined_sb_sptr self, int K)

viterbi_combined_sb_sptr.set_S0(viterbi_combined_sb_sptr self, int S0)

viterbi_combined_sb_sptr.set_SK(viterbi_combined_sb_sptr self, int SK)

viterbi_combined_sb_sptr.set_TABLE(viterbi_combined_sb_sptr self, std::vector< short, std::allocator< short > > const & table)

viterbi_combined_sb_sptr.set_TYPE(viterbi_combined_sb_sptr self, gr:digital::trellis_metric_type_t type)

viterbi_combined_sb_sptr.set_min_noutput_items(viterbi_combined_sb_sptr self, int m)

viterbi_combined_sb_sptr.set_thread_priority(viterbi_combined_sb_sptr self, int priority) → int

viterbi_combined_sb_sptr.thread_priority(viterbi_combined_sb_sptr self) → int

gnuradio.trellis.viterbi_combined_si(fsm FSM, int K, int S0, int SK, int D, std::vector< short, std::allocator< short > > const & TABLE, gr:digital::trellis_metric_type_t TYPE) → viterbi_combined_si_sptr

```

Constructor Specific Documentation:

- Parameters:**
- **FSM** –
  - **K** –
  - **S0** –
  - **SK** –
  - **D** –
  - **TABLE** –
  - **TYPE** –

```

viterbi_combined_si_sptr.D(viterbi_combined_si_sptr self) → int

viterbi_combined_si_sptr.FSM(viterbi_combined_si_sptr self) → fsm

viterbi_combined_si_sptr.K(viterbi_combined_si_sptr self) → int

```

```

viterbi_combined_si_sptr.s0(viterbi_combined_si_sptr self) → int

viterbi_combined_si_sptr.sk(viterbi_combined_si_sptr self) → int

viterbi_combined_si_sptr.TABLE(viterbi_combined_si_sptr self) → std::vector< short, std::allocator< short > >

viterbi_combined_si_sptr.TYPE(viterbi_combined_si_sptr self) → gr::digital::trellis_metric_type_t

viterbi_combined_si_sptr.active_thread_priority(viterbi_combined_si_sptr self) → int

viterbi_combined_si_sptr.declare_sample_delay(viterbi_combined_si_sptr self, int which, int delay)
    declare_sample_delay(viterbi_combined_si_sptr self, unsigned int delay)

viterbi_combined_si_sptr.message_subscribers(viterbi_combined_si_sptr self, swig_int_ptr which_port) → swig_int_ptr

viterbi_combined_si_sptr.min_noutput_items(viterbi_combined_si_sptr self) → int

viterbi_combined_si_sptr.pc_input_buffers_full_avg(viterbi_combined_si_sptr self, int which) → float
    pc_input_buffers_full_avg(viterbi_combined_si_sptr self) -> pmt_vector_float

viterbi_combined_si_sptr.pc_noutput_items_avg(viterbi_combined_si_sptr self) → float

viterbi_combined_si_sptr.pc_nproduced_avg(viterbi_combined_si_sptr self) → float

viterbi_combined_si_sptr.pc_output_buffers_full_avg(viterbi_combined_si_sptr self, int which) → float
    pc_output_buffers_full_avg(viterbi_combined_si_sptr self) -> pmt_vector_float

viterbi_combined_si_sptr.pc_throughput_avg(viterbi_combined_si_sptr self) → float

viterbi_combined_si_sptr.pc_work_time_avg(viterbi_combined_si_sptr self) → float

viterbi_combined_si_sptr.pc_work_time_total(viterbi_combined_si_sptr self) → float

viterbi_combined_si_sptr.sample_delay(viterbi_combined_si_sptr self, int which) → unsigned int

viterbi_combined_si_sptr.set_D(viterbi_combined_si_sptr self, int D)

viterbi_combined_si_sptr.set_FSM(viterbi_combined_si_sptr self, fsm FSM)

viterbi_combined_si_sptr.set_K(viterbi_combined_si_sptr self, int K)

viterbi_combined_si_sptr.set_S0(viterbi_combined_si_sptr self, int S0)

viterbi_combined_si_sptr.set_SK(viterbi_combined_si_sptr self, int SK)

viterbi_combined_si_sptr.set_TABLE(viterbi_combined_si_sptr self, std::vector< short, std::allocator< short > > const & table)

viterbi_combined_si_sptr.set_TYPE(viterbi_combined_si_sptr self, gr::digital::trellis_metric_type_t type)

viterbi_combined_si_sptr.set_min_noutput_items(viterbi_combined_si_sptr self, int m)

viterbi_combined_si_sptr.set_thread_priority(viterbi_combined_si_sptr self, int priority) → int

viterbi_combined_si_sptr.thread_priority(viterbi_combined_si_sptr self) → int

gnuradio.trellis.viterbi_combined_ss(fsm FSM, int K, int S0, int SK, int D, std::vector< short, std::allocator< short > > const & TABLE, gr::digital::trellis_metric_type_t TYPE) → viterbi_combined_ss_sptr

```

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –
- **D** –
- **TABLE** –
- **TYPE** –

```
viterbi_combined_ss_sptra.D(viterbi_combined_ss_sptra self) → int  
viterbi_combined_ss_sptra.FSM(viterbi_combined_ss_sptra self) → fsm  
viterbi_combined_ss_sptra.K(viterbi_combined_ss_sptra self) → int  
viterbi_combined_ss_sptra.S0(viterbi_combined_ss_sptra self) → int  
viterbi_combined_ss_sptra.SK(viterbi_combined_ss_sptra self) → int  
viterbi_combined_ss_sptra.TABLE(viterbi_combined_ss_sptra self) → std::vector< short, std::allocator< short > >  
viterbi_combined_ss_sptra.TYPE(viterbi_combined_ss_sptra self) → gr::digital::trellis_metric_type_t  
viterbi_combined_ss_sptra.active_thread_priority(viterbi_combined_ss_sptra self) → int  
viterbi_combined_ss_sptra.declare_sample_delay(viterbi_combined_ss_sptra self, int which, int delay)  
    declare_sample_delay(viterbi_combined_ss_sptra self, unsigned int delay)  
viterbi_combined_ss_sptra.message_subscribers(viterbi_combined_ss_sptra self, swig_int_ptr  
which_port) → swig_int_ptr  
viterbi_combined_ss_sptra.min_noutput_items(viterbi_combined_ss_sptra self) → int  
viterbi_combined_ss_sptra.pc_input_buffers_full_avg(viterbi_combined_ss_sptra self, int  
which) → float  
    pc_input_buffers_full_avg(viterbi_combined_ss_sptra self) -> pmt_vector_float  
viterbi_combined_ss_sptra.pc_noutput_items_avg(viterbi_combined_ss_sptra self) → float  
viterbi_combined_ss_sptra.pc_nproduced_avg(viterbi_combined_ss_sptra self) → float  
viterbi_combined_ss_sptra.pc_output_buffers_full_avg(viterbi_combined_ss_sptra self, int  
which) → float  
    pc_output_buffers_full_avg(viterbi_combined_ss_sptra self) -> pmt_vector_float  
viterbi_combined_ss_sptra.pc_throughput_avg(viterbi_combined_ss_sptra self) → float  
viterbi_combined_ss_sptra.pc_work_time_avg(viterbi_combined_ss_sptra self) → float  
viterbi_combined_ss_sptra.pc_work_time_total(viterbi_combined_ss_sptra self) → float  
viterbi_combined_ss_sptra.sample_delay(viterbi_combined_ss_sptra self, int which) → unsigned  
int  
viterbi_combined_ss_sptra.set_D(viterbi_combined_ss_sptra self, int D)  
viterbi_combined_ss_sptra.set_FSM(viterbi_combined_ss_sptra self, fsm FSM)  
viterbi_combined_ss_sptra.set_K(viterbi_combined_ss_sptra self, int K)  
viterbi_combined_ss_sptra.set_S0(viterbi_combined_ss_sptra self, int S0)  
viterbi_combined_ss_sptra.set_SK(viterbi_combined_ss_sptra self, int SK)  
viterbi_combined_ss_sptra.set_TABLE(viterbi_combined_ss_sptra self, std::vector< short,  
std::allocator< short > > const & table)  
viterbi_combined_ss_sptra.set_TYPE(viterbi_combined_ss_sptra self, gr::digital::trellis_metric_type_t  
type)  
viterbi_combined_ss_sptra.set_min_noutput_items(viterbi_combined_ss_sptra self, int m)
```

```
viterbi_combined_ss_sptr.set_thread_priority(viterbi_combined_ss_sptr self, int priority) →  
int
```

```
viterbi_combined_ss_sptr.thread_priority(viterbi_combined_ss_sptr self) → int
```

```
gnuradio.trellis.viterbi_i(fsm FSM, int K, int S0, int SK) → viterbi_i_sptr
```

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –

```
viterbi_i_sptr.FSM(viterbi_i_sptr self) → fsm
```

```
viterbi_i_sptr.K(viterbi_i_sptr self) → int
```

```
viterbi_i_sptr.S0(viterbi_i_sptr self) → int
```

```
viterbi_i_sptr.SK(viterbi_i_sptr self) → int
```

```
viterbi_i_sptr.active_thread_priority(viterbi_i_sptr self) → int
```

```
viterbi_i_sptr.declare_sample_delay(viterbi_i_sptr self, int which, int delay)  
declare_sample_delay(viterbi_i_sptr self, unsigned int delay)
```

```
viterbi_i_sptr.message_subscribers(viterbi_i_sptr self, swig_int_ptr which_port) →  
swig_int_ptr
```

```
viterbi_i_sptr.min_noutput_items(viterbi_i_sptr self) → int
```

```
viterbi_i_sptr.pc_input_buffers_full_avg(viterbi_i_sptr self, int which) → float  
pc_input_buffers_full_avg(viterbi_i_sptr self) -> pmt_vector_float
```

```
viterbi_i_sptr.pc_noutput_items_avg(viterbi_i_sptr self) → float
```

```
viterbi_i_sptr.pc_nproduced_avg(viterbi_i_sptr self) → float
```

```
viterbi_i_sptr.pc_output_buffers_full_avg(viterbi_i_sptr self, int which) → float  
pc_output_buffers_full_avg(viterbi_i_sptr self) -> pmt_vector_float
```

```
viterbi_i_sptr.pc_throughput_avg(viterbi_i_sptr self) → float
```

```
viterbi_i_sptr.pc_work_time_avg(viterbi_i_sptr self) → float
```

```
viterbi_i_sptr.pc_work_time_total(viterbi_i_sptr self) → float
```

```
viterbi_i_sptr.sample_delay(viterbi_i_sptr self, int which) → unsigned int
```

```
viterbi_i_sptr.set_FSM(viterbi_i_sptr self, fsm FSM)
```

```
viterbi_i_sptr.set_K(viterbi_i_sptr self, int K)
```

```
viterbi_i_sptr.set_S0(viterbi_i_sptr self, int S0)
```

```
viterbi_i_sptr.set_SK(viterbi_i_sptr self, int SK)
```

```
viterbi_i_sptr.set_min_noutput_items(viterbi_i_sptr self, int m)
```

```
viterbi_i_sptr.set_thread_priority(viterbi_i_sptr self, int priority) → int
```

```
viterbi_i_sptr.thread_priority(viterbi_i_sptr self) → int
```

```
gnuradio.trellis.viterbi_s(fsm FSM, int K, int S0, int SK) → viterbi_s_sptr
```

Constructor Specific Documentation:

**Parameters:**

- **FSM** –
- **K** –
- **S0** –
- **SK** –

```
viterbi_s_sptr.FSM(viterbi_s_sptr self) → fsm
```

```
viterbi_s_sptr.K(viterbi_s_sptr self) → int  
viterbi_s_sptr.S0(viterbi_s_sptr self) → int  
viterbi_s_sptr.SK(viterbi_s_sptr self) → int  
viterbi_s_sptr.active_thread_priority(viterbi_s_sptr self) → int  
viterbi_s_sptr.declare_sample_delay(viterbi_s_sptr self, int which, int delay)  
    declare_sample_delay(viterbi_s_sptr self, unsigned int delay)  
  
viterbi_s_sptr.message_subscribers(viterbi_s_sptr self, swig_int_ptr which_port) →  
    swig_int_ptr  
  
viterbi_s_sptr.min_noutput_items(viterbi_s_sptr self) → int  
viterbi_s_sptr.pc_input_buffers_full_avg(viterbi_s_sptr self, int which) → float  
    pc_input_buffers_full_avg(viterbi_s_sptr self) -> pmt_vector_float  
  
viterbi_s_sptr.pc_noutput_items_avg(viterbi_s_sptr self) → float  
  
viterbi_s_sptr.pc_nproduced_avg(viterbi_s_sptr self) → float  
  
viterbi_s_sptr.pc_output_buffers_full_avg(viterbi_s_sptr self, int which) → float  
    pc_output_buffers_full_avg(viterbi_s_sptr self) -> pmt_vector_float  
  
viterbi_s_sptr.pc_throughput_avg(viterbi_s_sptr self) → float  
viterbi_s_sptr.pc_work_time_avg(viterbi_s_sptr self) → float  
viterbi_s_sptr.pc_work_time_total(viterbi_s_sptr self) → float  
viterbi_s_sptr.sample_delay(viterbi_s_sptr self, int which) → unsigned int  
viterbi_s_sptr.set_FSM(viterbi_s_sptr self, fsm FSM)  
viterbi_s_sptr.set_K(viterbi_s_sptr self, int K)  
viterbi_s_sptr.set_S0(viterbi_s_sptr self, int S0)  
viterbi_s_sptr.set_SK(viterbi_s_sptr self, int SK)  
viterbi_s_sptr.set_min_noutput_items(viterbi_s_sptr self, int m)  
viterbi_s_sptr.set_thread_priority(viterbi_s_sptr self, int priority) → int  
viterbi_s_sptr.thread_priority(viterbi_s_sptr self) → int
```