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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_float 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

pccc\_decoder\_combined\_cb\_sptr.**pc\_work\_time\_total**(pccc\_decoder\_combined\_cb\_sptr self) → float

pccc\_decoder\_combined\_cb\_sptr.**repetitions**(pccc\_decoder\_combined\_cb\_sptr self) → int

pccc\_decoder\_combined\_cb\_sptr.**sample\_delay**(pccc\_decoder\_combined\_cb\_sptr self, int which) → unsigned int

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)

pccc\_decoder\_combined\_cb\_sptr.**set\_scaling**(pccc\_decoder\_combined\_cb\_sptr self, float scaling)

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 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\_ci\_sptr

Constructor Specific Documentation:

- Parameters:**
- **FSMo** –
  - **STo0** –
  - **SToK** –
  - **FSMi** –
  - **STi0** –
  - **STiK** –
  - **INTERLEAVER** –
  - **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.**INTERLEAVER**(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 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_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) → gr::digital::trellis_metric_type_t

pccc_decoder_combined_fb_sptr.SISO_TYPE(pccc_decoder_combined_fb_sptr self, gr::trellis::siso_type_t) → 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::siso\_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::siso_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) -> pmt_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) -> pmt_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::siso_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::siso_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) →

```

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\_float 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 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_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::siso_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
viterbi_combined_cb_sptr.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
viterbi_combined_cb_sptr.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,

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_sptr.D(viterbi_combined_ss_sptr self) → int

viterbi_combined_ss_sptr.FSM(viterbi_combined_ss_sptr self) → fsm

viterbi_combined_ss_sptr.K(viterbi_combined_ss_sptr self) → int

viterbi_combined_ss_sptr.S0(viterbi_combined_ss_sptr self) → int

viterbi_combined_ss_sptr.SK(viterbi_combined_ss_sptr self) → int

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

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

viterbi_combined_ss_sptr.active_thread_priority(viterbi_combined_ss_sptr self) → int

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

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

viterbi_combined_ss_sptr.min_noutput_items(viterbi_combined_ss_sptr self) → int

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

viterbi_combined_ss_sptr.pc_noutput_items_avg(viterbi_combined_ss_sptr self) → float

viterbi_combined_ss_sptr.pc_nproduced_avg(viterbi_combined_ss_sptr self) → float

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

viterbi_combined_ss_sptr.pc_throughput_avg(viterbi_combined_ss_sptr self) → float

viterbi_combined_ss_sptr.pc_work_time_avg(viterbi_combined_ss_sptr self) → float

viterbi_combined_ss_sptr.pc_work_time_total(viterbi_combined_ss_sptr self) → float

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

viterbi_combined_ss_sptr.set_D(viterbi_combined_ss_sptr self, int D)

viterbi_combined_ss_sptr.set_FSM(viterbi_combined_ss_sptr self, fsm FSM)

viterbi_combined_ss_sptr.set_K(viterbi_combined_ss_sptr self, int K)

viterbi_combined_ss_sptr.set_S0(viterbi_combined_ss_sptr self, int S0)

viterbi_combined_ss_sptr.set_SK(viterbi_combined_ss_sptr self, int SK)

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

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

viterbi_combined_ss_sptr.set_min_noutput_items(viterbi_combined_ss_sptr 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

```