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gnuradio.noaa

Blocks and utilities for NOAA app.

`gnuradio.noaa.hrpt_decoder(bool verbose, bool output_files) → hrpt_decoder_sptr`

NOAA HRPT Decoder.

Constructor Specific Documentation:

Make NOAA HRPT Decoder.

- Parameters:**
- **verbose** –
 - **output_files** –

`hrpt_decoder_sptr.active_thread_priority(hrpt_decoder_sptr self) → int``hrpt_decoder_sptr.declare_sample_delay(hrpt_decoder_sptr self, int which, int delay)``declare_sample_delay(hrpt_decoder_sptr self, unsigned int delay)``hrpt_decoder_sptr.message_subscribers(hrpt_decoder_sptr self, swig_int_ptr which_port) → swig_int_ptr``hrpt_decoder_sptr.min_noutput_items(hrpt_decoder_sptr self) → int``hrpt_decoder_sptr.pc_input_buffers_full_avg(hrpt_decoder_sptr self, int which) → float``pc_input_buffers_full_avg(hrpt_decoder_sptr self) -> pmt_vector_float``hrpt_decoder_sptr.pc_noutput_items_avg(hrpt_decoder_sptr self) → float``hrpt_decoder_sptr.pc_nproduced_avg(hrpt_decoder_sptr self) → float``hrpt_decoder_sptr.pc_output_buffers_full_avg(hrpt_decoder_sptr self, int which) → float``pc_output_buffers_full_avg(hrpt_decoder_sptr self) -> pmt_vector_float``hrpt_decoder_sptr.pc_throughput_avg(hrpt_decoder_sptr self) → float``hrpt_decoder_sptr.pc_work_time_avg(hrpt_decoder_sptr self) → float``hrpt_decoder_sptr.pc_work_time_total(hrpt_decoder_sptr self) → float``hrpt_decoder_sptr.sample_delay(hrpt_decoder_sptr self, int which) → unsigned int``hrpt_decoder_sptr.set_min_noutput_items(hrpt_decoder_sptr self, int m)``hrpt_decoder_sptr.set_thread_priority(hrpt_decoder_sptr self, int priority) → int``hrpt_decoder_sptr.thread_priority(hrpt_decoder_sptr self) → int``gnuradio.noaa.hrpt_deframer() → hrpt_deframer_sptr`

NOAA HRPT Deframer.

Constructor Specific Documentation:

Make NOAA HRPT Deframer.

`hrpt_deframer_sptr.active_thread_priority(hrpt_deframer_sptr self) → int``hrpt_deframer_sptr.declare_sample_delay(hrpt_deframer_sptr self, int which,`

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int delay)
declare_sample_delay(hrpt_deframer_sptr self, unsigned int delay)

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

hrpt_deframer_sptr.min_noutput_items(hrpt_deframer_sptr self) → int

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

hrpt_deframer_sptr.pc_noutput_items_avg(hrpt_deframer_sptr self) → float

hrpt_deframer_sptr.pc_nproduced_avg(hrpt_deframer_sptr self) → float

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

hrpt_deframer_sptr.pc_throughput_avg(hrpt_deframer_sptr self) → float

hrpt_deframer_sptr.pc_work_time_avg(hrpt_deframer_sptr self) → float

hrpt_deframer_sptr.pc_work_time_total(hrpt_deframer_sptr self) → float

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

hrpt_deframer_sptr.set_min_noutput_items(hrpt_deframer_sptr self, int m)

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

hrpt_deframer_sptr.thread_priority(hrpt_deframer_sptr self) → int

gnuradio.noaa.hrpt_pll_cf(float alpha, float beta, float max_offset) →
hrpt_pll_cf_sptr
NOAA HRPT PLL.

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Constructor Specific Documentation:

Parameters:

- **alpha** –
- **beta** –
- **max_offset** –

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hrpt_pll_cf_sptr.active_thread_priority(hrpt_pll_cf_sptr self) → int

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

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

hrpt_pll_cf_sptr.min_noutput_items(hrpt_pll_cf_sptr self) → int

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

hrpt_pll_cf_sptr.pc_noutput_items_avg(hrpt_pll_cf_sptr self) → float

hrpt_pll_cf_sptr.pc_nproduced_avg(hrpt_pll_cf_sptr self) → float

```

```
hrpt_pll_cf_sptr.pc_output_buffers_full_avg(hrpt_pll_cf_sptr self, int which) → float
    pc_output_buffers_full_avg(hrpt_pll_cf_sptr self) → pmt_vector_float

    hrpt_pll_cf_sptr.pc_throughput_avg(hrpt_pll_cf_sptr self) → float
    hrpt_pll_cf_sptr.pc_work_time_avg(hrpt_pll_cf_sptr self) → float
    hrpt_pll_cf_sptr.pc_work_time_total(hrpt_pll_cf_sptr self) → float
    hrpt_pll_cf_sptr.sample_delay(hrpt_pll_cf_sptr self, int which) → unsigned int
    hrpt_pll_cf_sptr.set_alpha(hrpt_pll_cf_sptr self, float alpha)
    hrpt_pll_cf_sptr.set_beta(hrpt_pll_cf_sptr self, float beta)
    hrpt_pll_cf_sptr.set_max_offset(hrpt_pll_cf_sptr self, float max_offset)
    hrpt_pll_cf_sptr.set_min_noutput_items(hrpt_pll_cf_sptr self, int m)
    hrpt_pll_cf_sptr.set_thread_priority(hrpt_pll_cf_sptr self, int priority) → int
    hrpt_pll_cf_sptr.thread_priority(hrpt_pll_cf_sptr self) → int
```