

## OP25 - Feature #1699

### Integrate IMBE decoding into decoder block.

05/03/2016 11:14 AM - stevie

<b>Status:</b> Closed	<b>Start date:</b>
<b>Priority:</b> High	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	
<b>Target version:</b>	
<b>Resolution:</b>	<b>Spec Reference:</b>
<b>Description</b> Real-time decoding of IMBE frames with audio output from block.	

#### History

##### #1 - 09/10/2009 01:58 AM - stevie

As of rev. 160 the decoder is available and can be selected by setting the environment variable "IMBE" to "soft" before starting the receiver. There is a problem in that the IMBE output is 'choppy' unless allowed to run at full speed (i.e. with no throttling). I think the forecast method is also a problem and this needs further investigation.

##### #2 - 09/10/2009 07:35 AM - stevie

- Status changed from New to Closed

- Resolution set to fixed

Final change needed was to make forecast() work properly and then integrate into usrp\_p25\_rx.py. The block input is (at present) dibit symbols at 4800 symbols/s and the output is mono audio at 8000 samples/s. Thus forecast can determine the correct forecast for input as being 3/5 of the number of output samples required.