Diagram Documentation

$\underline{BDD\ Codesign}\ \hbox{-}\ (\textit{SysML\ Block\ Definition\ diagram})$

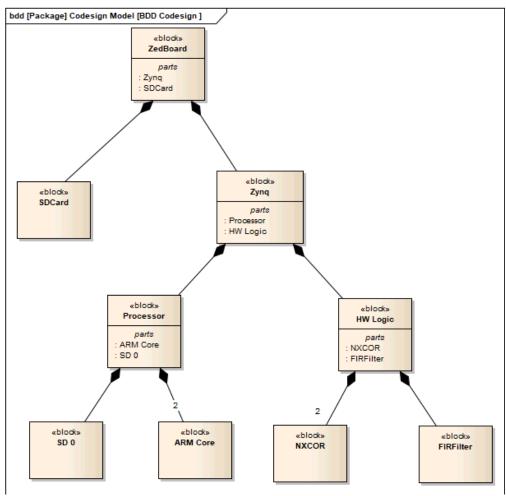


Figure: 1

IBD Codesign - (SysML Internal Block diagram)

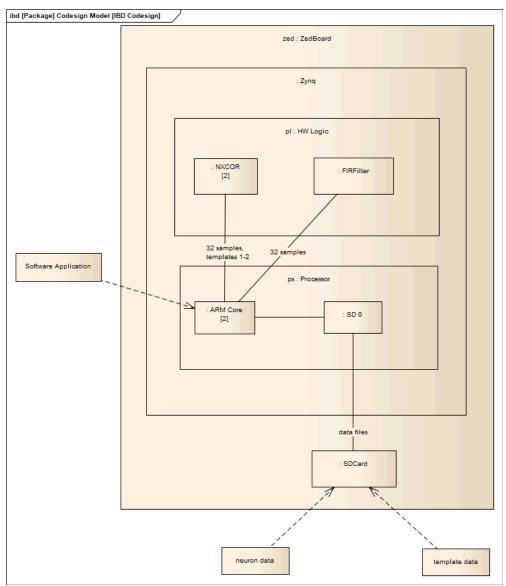


Figure: 2

<u>Seq Template Matching</u> - (Sequence diagram)

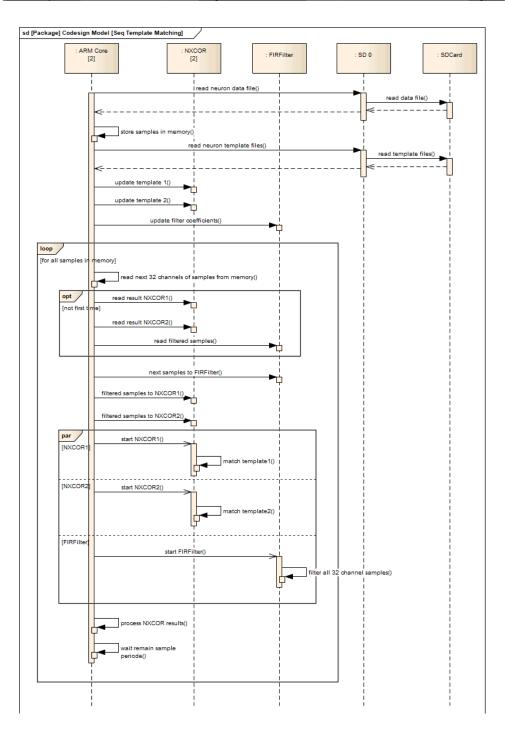


Figure: 3

Timing Codesign - (Timing diagram)

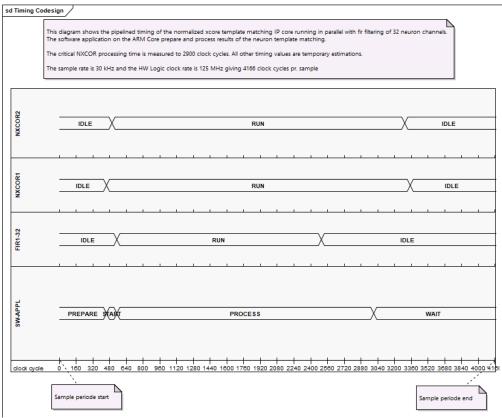


Figure: 4

 $\underline{Class\ Diagram}\ -\ (Class\ diagram)$

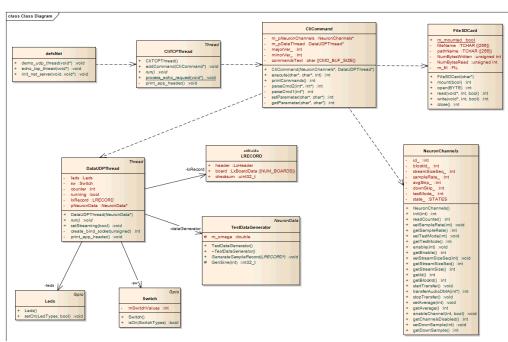


Figure: 5

 $\underline{\mathbf{data}}$ - (Class diagram)

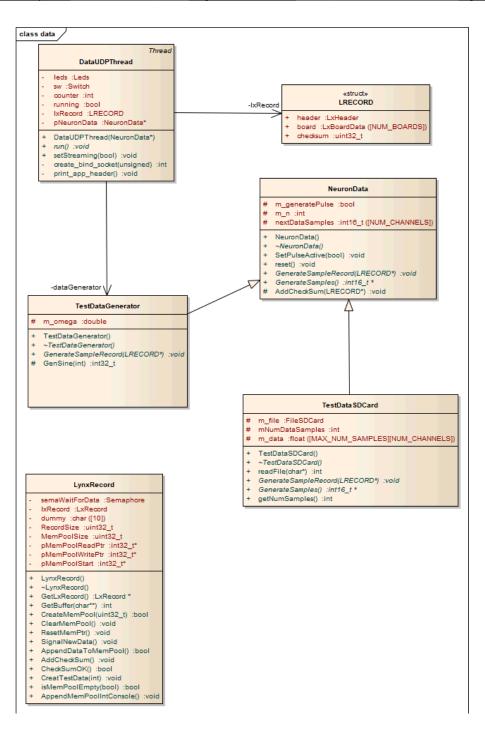


Figure: 6

<u>algo</u> - (Class diagram)

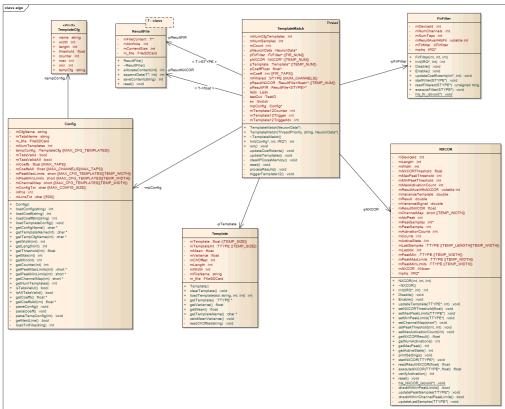


Figure: 7

 $\underline{\textbf{channels}} \textbf{-} (Class\ diagram)$

class channels NeuronChannels id_ :int blockld_ :int streamSizeSec_ :int sampleRate_ :int avgSkip_ :int downSkip_ :int testMode_ :int state_ :STATES + NeuronChannels() + init(int) :int + readCounter() :int + setSampleRate(int) :void + getSampleRate() :int + setTestMode(int) :void + getTestMode() :int + enable(int) :void + getEnable() :int + setStreamSizeSec(int) :void + getStreamSizeSec() :int + getStreamSize() :int + getId() :int + getBlockId() :int startTransfer() :void + transferAudioDMA(int*) :int + stopTransfer() :void + setAverage(int) :void + getAverage() :int enableChannel(int, bool) :void + getChannelsDisabled() :int setDownSample(int) :void getDownSample():int

Figure: 8

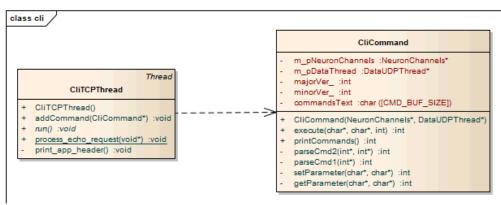


Figure: 9

$\underline{\mathbf{file}}$ - (Class diagram)

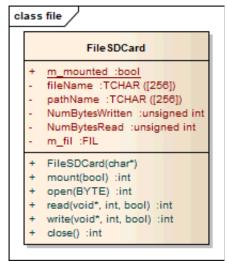
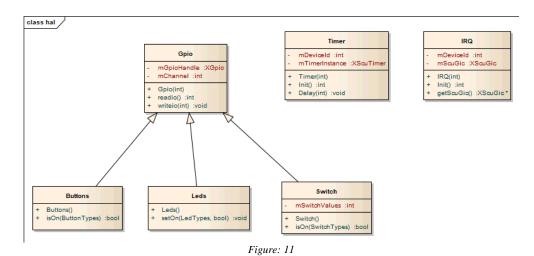


Figure: 10



$\underline{\mathbf{net}}$ - (Class diagram)

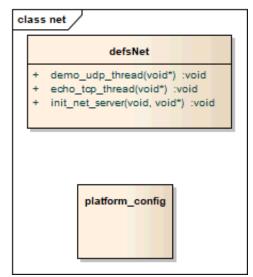


Figure: 12

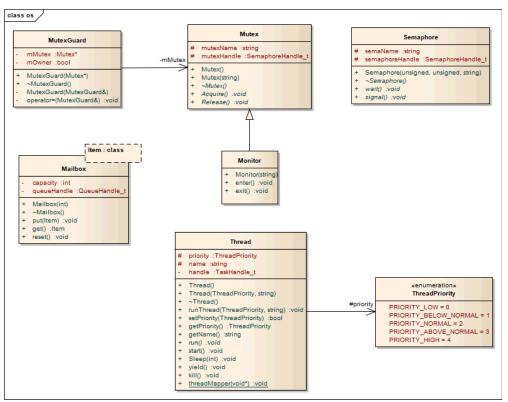


Figure: 13