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VIRTUAL FILTERS FOR MULTIRATE SIGNAL PROCESSING IN INSTRUMENTATION

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Abstract. Low complexity digital signal processing applications can be performed using a single sampling rate for the whole implementation. For high complexity applications, sometimes it is beneficial to alter the sampling rate used at different stages of the system to reduce the required computational complexity and to enable the use of low-cost digital signal processing structures. The implementation of a digital signal processing application using variable sampling rates is called multirate digital signal processing.

Keywords: signal processing, LabView, multirate signal processing.