

Innovative Teaching Approaches in development of Software Designed Instrumentation and its application in real-time systems

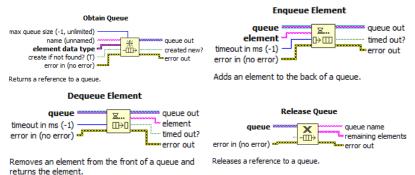
The Advanced Applications of LabVIEW Lecture 3: Producer/Consumer Design Pattern

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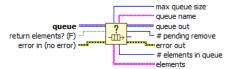
Application of producer/consumer design pattern

- The producer/consumer design pattern is used for parallel tasks.
- The pattern consists on one producer loop and one consumer loop. The producer loop communicates with consumer loop by queue.
- The queue is used to send data between two loops without risk of losing data. The queue has the FIFO buffer (First In, First Out).



Application of producer/consumer design pattern

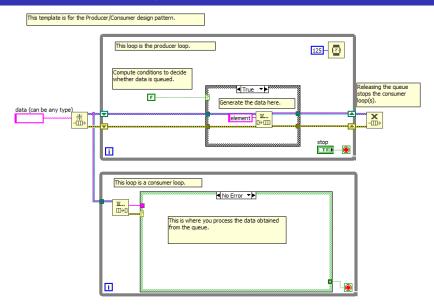
Get Queue Status



Returns information about the current state of a queue, such as the number of elements currently in the queue.

Dariusz Tefelski AAL 2018/2019 3 / 5

Structure of producer/consumer design pattern





Thank you for attention!

Lecture was prepared based on materials from: "LabVIEW Core 3 Course Manual".

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