


# REGEN\_SAMPLEHOLD.VI\*

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	<p>This module refers to LabVIEW, a software development environment that features a graphical programming language. Please see the LabVIEW QuickStart Guide module for tutorials and documentation that will help you:</p>
	<ul style="list-style-type: none"> <li>• <a href="#">Learn LabVIEW to Audio Signal Processing</a></li> </ul>
	<ul style="list-style-type: none"> <li>• <a href="#">Get started with LabVIEW</a></li> </ul>
	<p>© 2008 An a fully-functional evaluation edition of LabVIEW</p>

**Table 1**

NOTE: Visit LabVIEW Setup to learn how to adjust your own LabVIEW environment to match the settings used by the LabVIEW screencast video(s) in this module. Click the "Fullscreen" button at the lower right corner of the video player if the video does not fit properly within your browser window.

## 1 LabVIEW SubVI: regen\_SampleHold.vi

- **Description:** Sample a signal on demand and hold the signal value across multiple calls to the subVI. This subVI is intended for point-by-point processing within a for-loop or while-loop structure.
- **Category:** Bitstream regeneration ("regen" prefix)

## 2 Inputs (Controls)

1. `signal in` – DBL
2. `sample now` – Boolean

Parentheses ( ) indicate default value; square brackets [ ] designate units.

## 3 Outputs (Indicators)

1. `signal out` – DBL

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## 4 Required Behavior

- `signal out` takes on one of two possible values: if `sample now` is T the output value is `signal in`, otherwise it is the value of `signal out` from the previous call to the subVI.

## 5 LabVIEW Coding Tips

View the screencast video in [Create a SubVI in LabVIEW](#) to learn the mechanics of subVIs.

Refer to the [Figure 1](#) screencast video for LabVIEW coding tips and techniques specific to this subVI.

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**Figure 1:** [video] LabVIEW coding tips and techniques for `regen_SampleHold.vi`

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