



VisiTrigger Quick Reference

This covers:

- Using Trigger Functions
- Editing Trigger Sequence Levels
- Storage Qualification
- Intermodule Triggering

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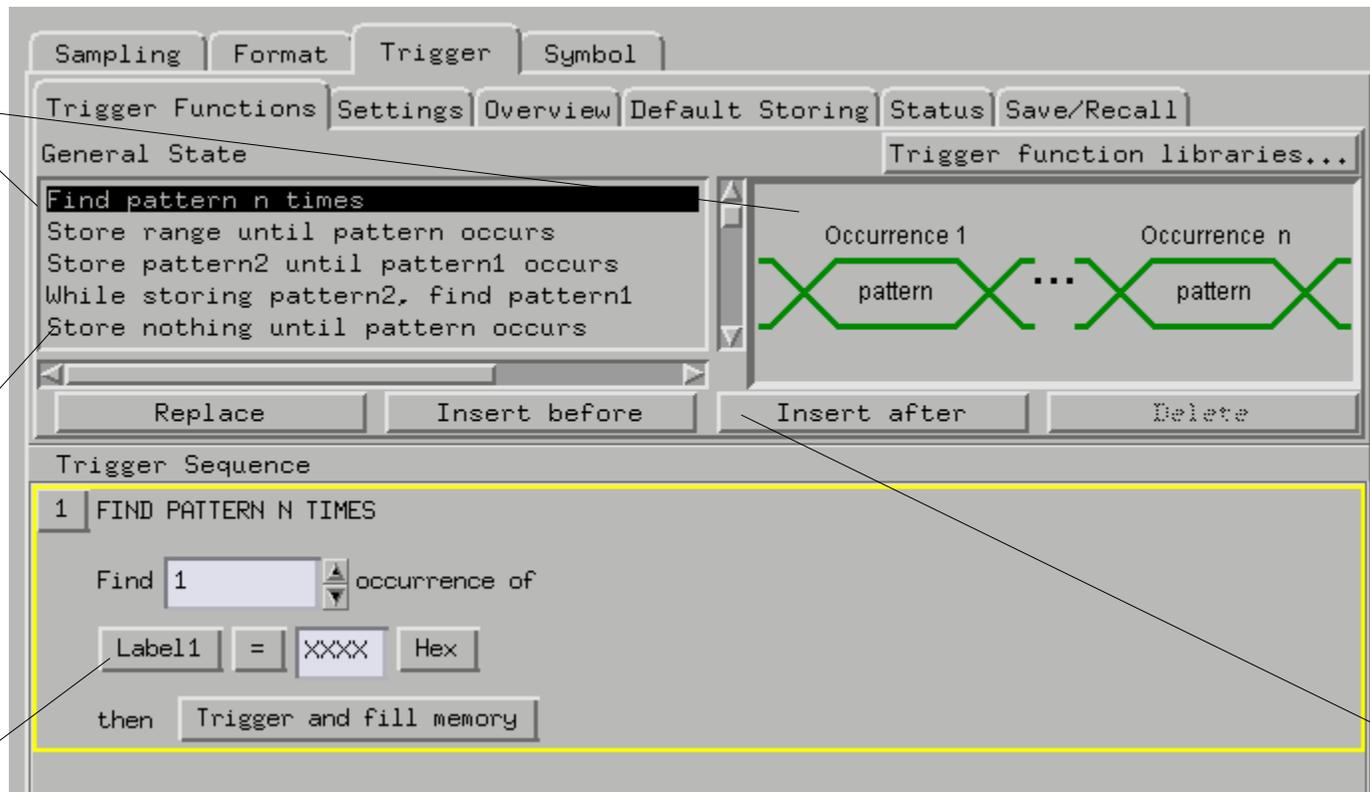
Using Trigger Functions

To see the matching graphic, single-click a function.

To replace the selected sequence level, double-click a function.

The advanced functions are at the bottom of the list. Use them for multi-way branching, timers and counters.

Click here and select "Replace label.." to change the label. Select "Insert label.." to create an AND.



These buttons use the currently selected function.

Editing Trigger Sequence Levels

General rule: Click on a button to get a list of options.

Click here and select "Insert Branch" to add another branch.

Click here to change the operator to equals, edge, range, >, etc.

Multiple actions are allowed in each branch. Click here and select "Insert action" to add another action.

To create an AND/OR, click here and select "Insert event". This replaces the Combo dialog.

Trigger Sequence

1	If	ADDR	=	1234	Hex
		occurs	1	time	
then		Timer	1	Start from reset	
		Flag	1	Set	
		Goto	Next		
Else if		ADDR	In range	0000	1325 Hex Or
		ADDR	>=	F345	Hex
then		Goto	2		

Multiple branches, timers, counters and flags are only available in advanced functions.

Storage Qualification

Default Storing means “unless a sequence level says otherwise, this is what to store”. This eliminates the need to specify storage for each sequence level.

There are actions to turn default storing On and Off.

This overrides the default storing. This function is the same as the “While Storing” macro in previous versions.

This sequence level doesn’t specify what is stored, so the Default Storing applies.

Sampling Format Trigger Symbol

Trigger Functions Settings Overview Default Storing Status Save/Recall

Specify what to store by default. Using store actions in a sequence level overrides the "Default Storing".

Store by default Custom

At start of acquisition, "Default Storing" is On

Store if

Label1 In range 2000 3000 Hex

Group events...

Trigger Sequence

```

1 STORE PATTERN2 UNTIL PATTERN1 OCCURS
  Store Label1 In range 0000 2000 Hex
  until Label1 = FF34 Hex
  occurs 1 time
  then Store sample
    Trigger and fill memory
2 FIND PATTERN N TIMES
  Find 1 occurrence of
  Label1 = 1234 Hex
  then Trigger and fill memory

```

Intermodule Triggering

The Intermodule dialog still controls the arming order. It is easier if the arming order is set up before specifying the triggers for each module.

Specify which analyzer is to send the arm out signal. This only appears if both analyzers in a module are active.

The screenshot shows the 'Trigger' tab of the Intermodule dialog. At the top, there are tabs for 'Sampling', 'Format', 'Trigger', and 'Symbol'. Below these are sub-tabs for 'Trigger Functions', 'Settings', 'Overview', 'Status', and 'Save/Recall'. The 'Settings' sub-tab is active, showing:

- Sample Period: 3.0ns
- Acquisition Depth: 2M
- Trigger Position: Center

 On the right side, under 'Arm out from:', there are two checkboxes:

- Analyzer<E>
- Analyzer<E2>

 Below the settings is the 'Trigger Sequence' section, which contains a list of trigger functions:

- 1 WAIT FOR ARM IN
Wait for arm in
then Goto Next
- 2 If Label1 = FFFF Hex
occurs 1 time
then Trigger, arm out, and fill memory

 The second sequence level is highlighted with a yellow border.

There's a "Wait for Arm In" trigger function. Use it to specify which sequence level is to wait for the "arm in" signal.

Arm out signals are sent when this module triggers. This is set up in the Intermodule dialog.

Summary

- Trigger functions are the simplest way to set up a trigger.
- Click on a trigger function in the list; then, click on the “Replace”, “Insert Before”, or “Insert After” buttons. Double-clicking a function is a short cut for “Replace”.
- To create an “AND”, click on the label button and select “Insert”. This replaces the combo dialog.
- “While storing” becomes “Store pattern until pattern occurs”.
- Within each branch, multiple actions are allowed, one of which must be a Go To or Trigger action.
- Advanced functions are located at the bottom of the list. Use them for multiple branches, timers, flags, and global counters.
- The Arming Control dialog has been replaced by the trigger functions “Wait for Arm in” and “Wait for other analyzer to trigger”.