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## Capturing "Buried" High-speed Glitches

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## Purpose:

In this hands-on exercise, you will use Glitch Trigger to isolate and capture a single-shot glitch that is "buried" within a complex digital pulse stream.

## Equipment:

- HP 54520-Series Oscilloscope
- HP 54720-66506 Application Training board
- 1. Connect channel 1 to J2 on the HP 54720-66506 Application Training Board using a 50  $\Omega$  (Ohm) BNC cable. Close switch #2 and #4 on S1. All other switches should be open.
- 2. Load the scope setup from the disk file.
  - a. Press the [blue shift key] and then press [Disk].
  - b. Select the *load scope* soft key and then select *SET*.
  - c. Turn the general entry knob to select setup from file [LAB1C.SET].
  - d. Press **execute**.
- 3. Press the *Single-shot/Glitch* button on the demo board several times. Each time you press this button, a narrow negative glitch will be injected into the pulse stream that you are observing on screen.

- 4. Make the following setup changes in the *TRIGGER* setup menu:
  - a. Mode = **glitch**
  - b. Source = *channel 1 LOW*
  - c. Level = *center*
  - d. Qualification = **when present** <
  - e. Width = **5 ns**
- Press the "Single-shot/Glitch" button on the demo board. Do you capture the glitch this time? \_\_\_\_\_\_ Why or why not?







