

Things for you to try ...

If you want to analyze this signal further, here are some suggestions. Try them on your own, at first. *Hints* show how to complete the tasks.

Look at the Data signal (Channel A) using “vs. Time” and histogram displays.

Hint: Press Preset. Set function to Time Interval A→B. Set inputs to Common. Press Autoscale.

The jitter appears random. Now display the data in a histogram.

Hint: Press the Display menu key. Select Histogram using the top softkey. Set Hist Accumulate to On.

The histogram of the data jitter looks like a Gaussian distribution verifying that the jitter is random.

Find the Standard Deviation of the Clock signal (Channel B).

Hint: Connect the channel B signal from the Signal Source (the clock) to the Analyzer's channel A input. Press Preset. Set function to Time Interval A→B. Set inputs to Common. Press Autoscale. Select the Std Dev function (Shift, 0).

Before continuing, re-connect the cables correctly from the Signal Source to the Analyzer (as shown in the Introduction).