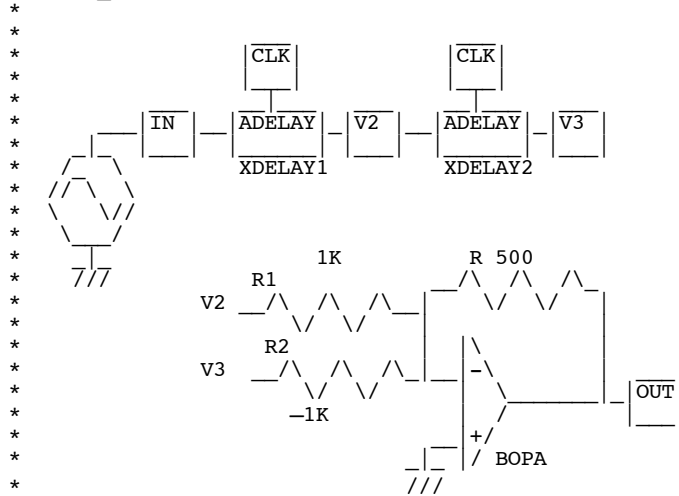


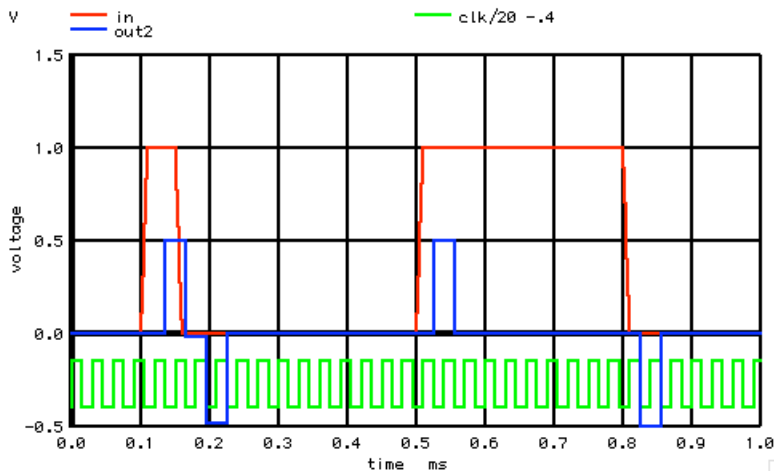
Running_Delta

High pass filters are looking for inconsistency in the input signal. A common technique is to do a lowpass filter of a signal, and then subtract the lowpass from the input

RUNNING_DELTA



The example above is doing a simple running subtraction of the input signal. Its output wave form below shows it detects rising and falling edges.



If one uses enough delay elements, and combine their values together in such a way that an impulse response will produce a $\sin(x)/x$ waveform, then subtracting that sinc signal from the input signal will produce something like a perfect brick-wall high pass filter.

Full_Netlist_For_Copy_Paste

RUNNING_DELTA

