

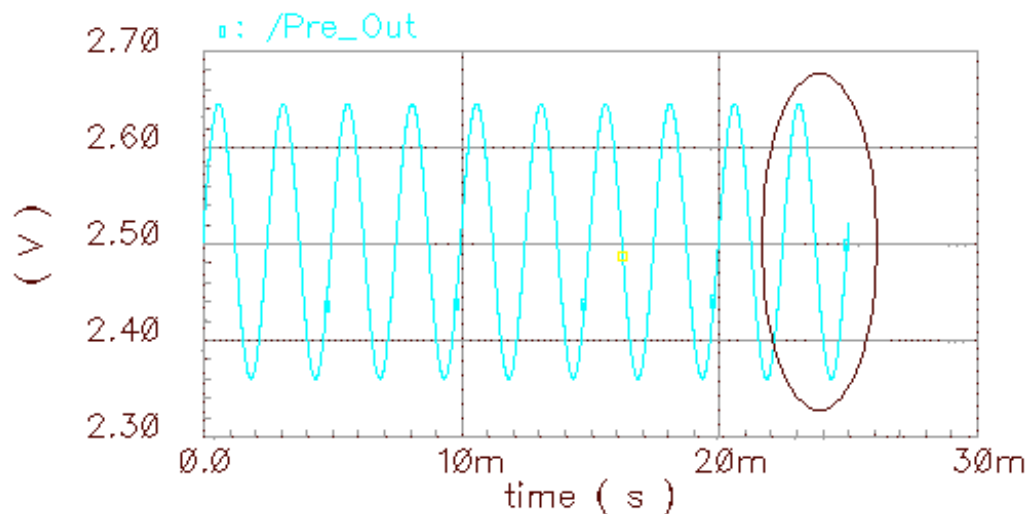
This documentation is about the method of obtaining THD using Cadence waveform calculator.

It uses the discrete Fourier transform for computation and takes the same arguments.

OK	Cancel	Defaults	Apply	Help
From	<input type="text"/>	To	<input type="text"/>	Number of Samples <input type="text" value="64"/>
	Fundamental (Hz)		Enter 0 to choose the largest signal	

This is the default window for THD calculation.

Example:



Example waveform that will be analyzed. The fundamental frequency of this waveform is equal to 400 Hz.

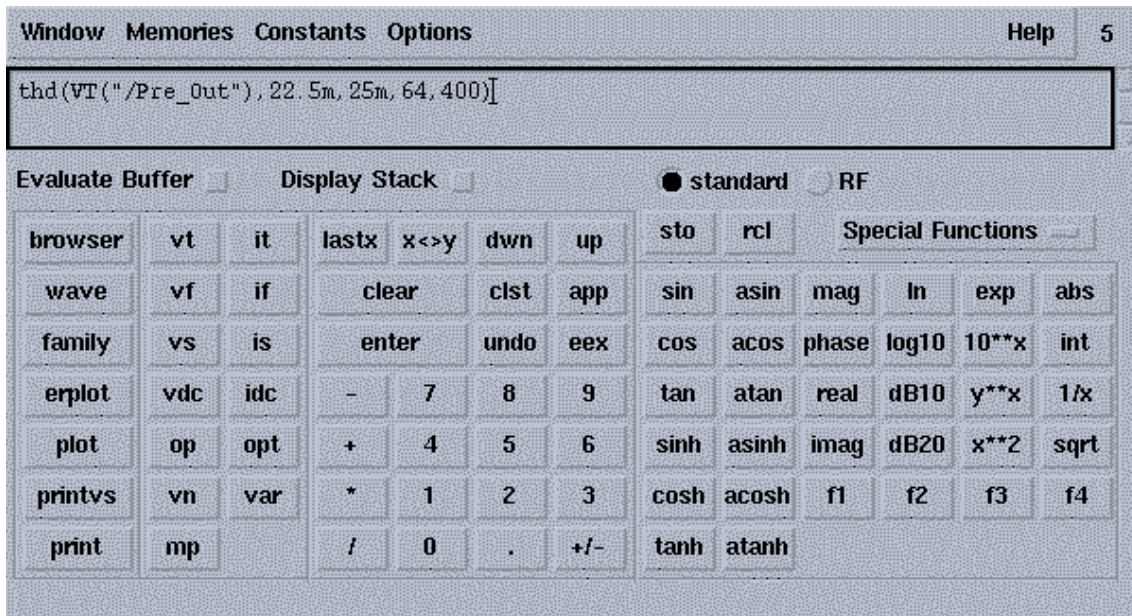
Steps:

1. Click the output that will be analyzed (Vt)
2. Click Special functions button then click thd.
3. Specify the range and the number of samples. The waveform that will be analyzed is the 10th cycle of the output waveform.

Note: Set the simulation time step to be 1/100th of a cycle, and simulate ten cycles. Measure the tenth cycle by specifying the beginning of the cycle as the "From" time and the end as the "To" time.

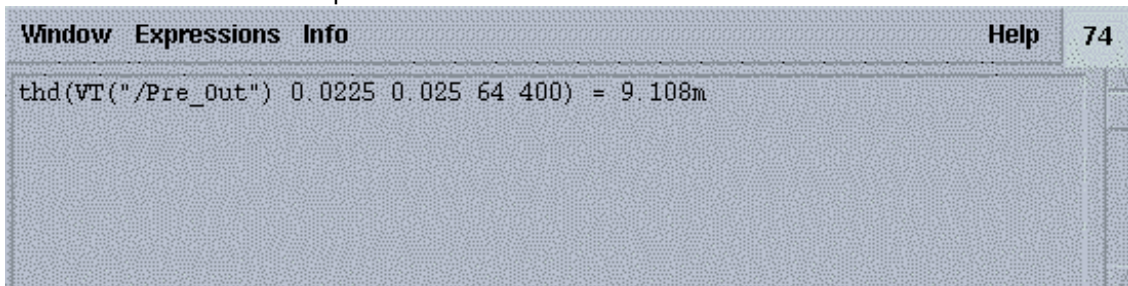
OK	Cancel	Defaults	Apply	Help
From	<input type="text" value="22.5m"/>	To	<input type="text" value="25m"/>	Number of Samples <input type="text" value="64"/>
	Fundamental (Hz)	<input type="text" value="400"/>	Enter 0 to choose the largest signal	

This will be appearance of the thd window.



Finally, this will also be the appearance of the waveform calculator.

4. Click print in the waveform calculator.



This will now be the window that contains the thd data reading.