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AC Voltage Source: ACVS

Symbol

Summary

This signal source is superseded and should be replaced with one of the following: AC_V for voltage sources, AC_I for current sources, or PORT_SRC for ports, with the Signal parameter set to this signal type.

The period for tone 1 sources is the inverse of the specified simulation frequency; see "Frequency Sweep Control" for details.

Parameters

Name	Description	Unit Type	Default
ID	Voltage source ID	Text	V1
Mag	AC voltage magnitude	Voltage	1 V
Ang	AC voltage angle	Angle	0 Deg
Offset	Waveform offset (does not affect DC)	Voltage	0
DCVal	DC value (Used for DC analysis)	Voltage	0

Implementation Details

Produces an alternating voltage with a frequency defined by the project frequency set up for the schematic containing this element.

NOTE: If a sinusoidal nonlinear source like this one has the parameter Ang=0 and is ideally terminated, then a nonlinear measurement (e.g. Pcomp or Vcomp) made at the fundamental output of that source will have an angle of -90deg. This discrepancy is consistent with the definition of the sine wave sources (as in SPICE), and the Fourier based harmonic component measurements. To avoid confusion, always measure or calculate the gain, and plot its angle.

Layout

This element does not have an assigned layout cell. You can assign artwork cells to any element. See "Assigning Artwork Cells to Layout of Schematic Elements" for details.

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