

## Statements related to frequency specification

An AC (frequency-domain) solution requires the frequency (frequencies) to be specified (see Chapter 9 of Part-1). SEQUEL allows the following options in that context.

**\* set\_frequency R**

(R: real number)

corresponds to the GUI statement **set frequency**. This statement is used to instruct the simulator to perform AC simulation at a single frequency R.

**\* vary\_freq from R1 to R2 type=linear/log n.points=I**

(R1,R2: real numbers, I: integer)

corresponds to the GUI statement **vary frequency**. This statement is used to instruct the simulator to perform AC simulation for a range of frequencies from R1 to R2. The number of frequency points is specified by I.

If the type is specified as **linear**, the frequency values are assumed to be distributed linearly between R1 and R2.

If the type is specified as **log**, the frequency values are assumed to be distributed logarithmically between R1 and R2.

In typical applications, R1 and R2 are orders of magnitude apart, and the **log** option is more appropriate.

**\* vary\_freq type=table R1 R2 R3 ...**

(R1,R2,R3,...: real numbers)

corresponds to the GUI statement **vary frequency**. This statement is used to instruct the simulator to perform AC simulation at frequencies given by R1, R2, R3,...

In an AC simulation solve block, either **set\_freq** or **vary\_freq** must be included.