

# **Spectre® Circuit Simulator RF Analysis**

## **What's New**

**Product Version 19.1**  
**May 2020**

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## **Spectre Circuit Simulator RF Analysis What's New**

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# What's New in Spectre Circuit Simulator RF Analysis 19.1

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## Product Version 19.1 May 2020

This document contains the following sections:

- [Supported Platforms and Operating Systems](#) on page 6
- [Licensing Changes](#) on page 6
- [New and Enhanced Features in Spectre 19.1 ISR7](#) on page 7
- [New and Enhanced Features in Spectre 19.1 ISR2](#) on page 8
- [New and Enhanced Features in Spectre 19.1 ISR1](#) on page 9
- [New and Enhanced Features in Spectre 19.1](#) on page 10

## Supported Platforms and Operating Systems

The following platforms and operating systems are supported:

<b>Platform and Architecture</b>	<b>Linux (64)</b> x86_64 (Inx86)
<b>Development OS</b>	RHEL 6.5
<b>Additional Supported OS</b>	RHEL 6.5 and above RHEL 7 SLES 11 (64-bit only) SLES 12 Ubuntu 14.04

**Note:** Starting with SPECTRE 19.1, support for 32-bit operating system has been discontinued.

## Licensing Changes

For information on Spectre RF licensing, refer to the *[Preface](#)* of the *Spectre<sup>®</sup> Circuit Simulator and Accelerated Parallel Simulator RF Analysis User Guide*.

## **New and Enhanced Features in Spectre 19.1 ISR7**

Starting this release, all large and small-signal harmonic balance analyses support a new global option, `hb_lowmem_default_mode`. Set this option to 1 to enable reduced memory consumption.

## **New and Enhanced Features in Spectre 19.1 ISR2**

In this release, the wireless source LTE has been enhanced. A new option *FDD or TDD Mode* with possible values of *FDD* and *TDD* has been added in the *LTE* wireless source to make power and distortion measurements easier. For more information, see [LTE](#) in *Spectre Circuit Simulator RF Analysis Library Reference Manual*.



## **New and Enhanced Features in Spectre 19.1 ISR1**

SPECTRE 19.1 ISR1 release has the following new features and enhancements:

- Wireless envelope analysis now supports loadpull. Select the *Loadpull* checkbox in the envlp Choosing Analyses form to enable the feature and setup the options as done in hb analysis.
- The wlan11ax wireless source has been enhanced to support 6G frequency band.

## **New and Enhanced Features in Spectre 19.1**

SPECTRE 19.1 base release has the following new features and enhancements:

- A new wireless source NR has been added.
- The default value of the nport\_default\_interp global option has been changed to auto\_switch. As a result, the simulator now automatically chooses bbspice or linear as the interpolation method depending upon the analysis.