



## Example ADE-L GUI and Simulation Selection for Impedance Computations

**Design Variables**

Name	Value
1 vdc_val	900m
2 Is	100
3 vdda_val	vdc_val

**Analyses**

Type	Enable	Arguments
1 dc	<input type="checkbox"/>	t
2 ac	<input checked="" type="checkbox"/>	1M 100G 20 Logarithmic Points Per Decade Start-Stop

**Outputs**

Name/Signal/Expr	Value	Plot	Save	Save Options
17 diff_resistance_1MHz_ohms	396.343	<input type="checkbox"/>	<input type="checkbox"/>	
18 diff_cap_32GHz_ff	29.9779	<input type="checkbox"/>	<input type="checkbox"/>	
19 diff_cap_1GHz_ff	wave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20 diff_cap_100MHz_ff	30.014	<input type="checkbox"/>	<input type="checkbox"/>	
21 diff_cap_10MHz_ff	30.0131	<input type="checkbox"/>	<input type="checkbox"/>	
22 diff_cap_1MHz_ff	29.9183	<input type="checkbox"/>	<input type="checkbox"/>	
23 cap_linearity_0p4_percent		<input type="checkbox"/>	<input type="checkbox"/>	

Plot after simulation: **Auto** Plotting mode: **Replace**

> Results in ...des/smlogan/simu

2(5) Load State ... Status: Ready T=125.0 C Simulator: spectre aps State: tmpstate

**Choosing Analyses -- ADE L (1) (on pace788)**

Analysis

- ☐ tran ☐ dc ☒ ac ☐ noise
- ☐ xf ☐ sens ☐ dcmatch ☐ acmatch
- ☐ stb ☐ pz ☐ lf ☐ sp
- ☐ envlp ☐ pss ☐ pac ☐ pstb
- ☐ pnoise ☐ pxf ☐ psp ☐ qpss
- ☐ qpac ☐ qpnoise ☐ qpxf ☐ qpssp
- ☐ hb ☐ hbac ☐ hbstb ☐ hbnoise
- ☐ hbsp ☐ hbxf

**AC Analysis**

Sweep Variable

- ☒ Frequency
- ☐ Design Variable
- ☐ Temperature
- ☐ Component Parameter
- ☐ Model Parameter
- ☐ None

Sweep Range

- ☒ Start-Stop Start: **1e6** Stop: **100e9**
- ☐ Center-Span

Sweep Type

- ☒ Points Per Decade **20**
- ☐ Number of Steps

Logarithmic

Add Specific Points ☐

Add Points By File ☐

Specialized Analyses

None

Enabled ☒

Options...

**OK** **Cancel** **Defaults** **Apply** **Help**

Example ADE-L Graphical Output for Impedance Computations at 1 GHz as a Function of Bias Voltage from Parametric or ADE-XL/Assembler Simulations (uses expressions for capacitance and real components in ADE-L output file)

