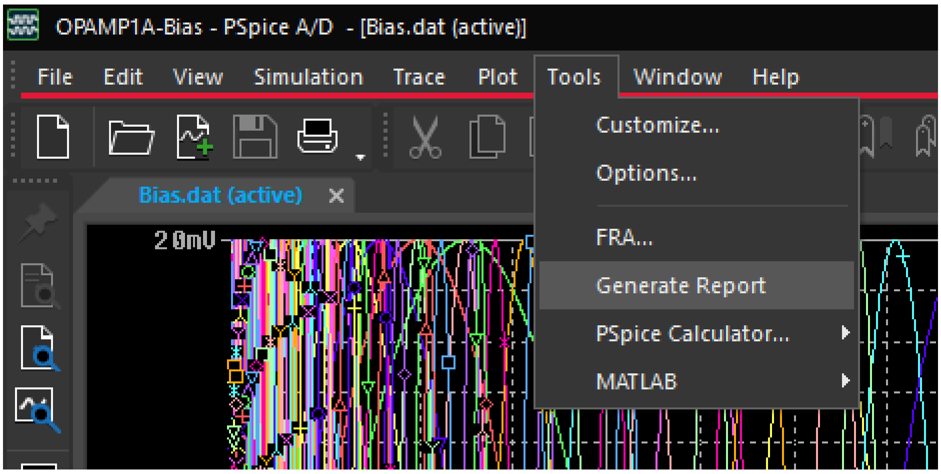
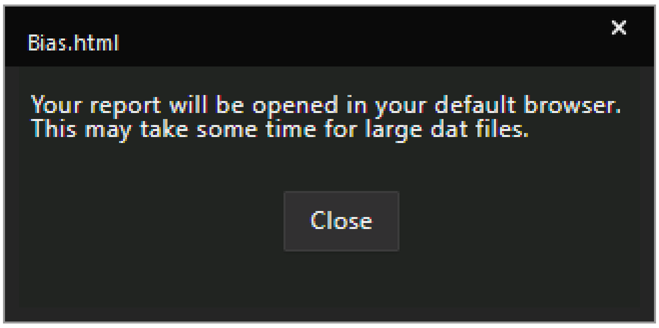
Creating Simulation Reports from PSpice AD

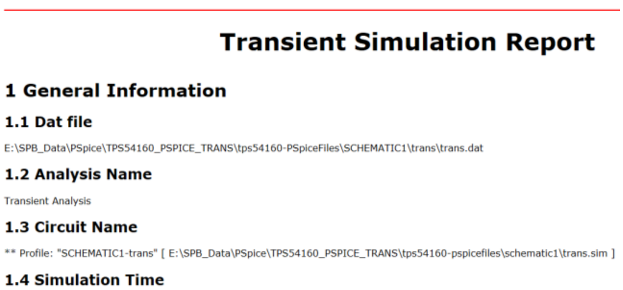
Once a simulation has completed, use Tools>Generate Report from the Probe, results, menu.



If the simulation produced a large data file, you would see the message about processing the output data to generate the formatted report:



There may be some minutes of background activity while the report is generated. Sections of the generated report are as follows, starting with the report header:



Transient Simulation Report

1 General Information

1.1 Dat file

E:\SPB_Data\PSpice\TPS54160_PSPICE_TRANS\tps54160-PSpiceFiles\SCHEMATIC1\trans\trans.dat

1.2 Analysis Name

Transient Analysis

1.3 Circuit Name

** Profile: "SCHEMATIC1-trans" [E:\SPB_Data\PSpice\TPS54160_PSPICE_TRANS\tps54160-pspicefiles\schematic1\trans.sim]

1.4 Simulation Time

Then the Nets section:

2 Circuit Information

2.1 List of Nets

Net Name	Aliases
	C137:1 C138:1 C141:1 C142:1 C4:1 D12:A R10:1 R238:1 R251:1 R252:1 U1:GND V2:- V78:- X_U1.C_C120 X_U1.C_C133 X_U1.C_C134 X_U1.C_C135 X_U1.C_C14 X_U1.C_C140 X_U1.C_ X_U1.C_C148 X_U1.C_C149 X_U1.C_C15 X_U1.C_C150 X_U1.C_C151 X_U1.C_C156 X_U1.C_ X_U1.C_C159 X_U1.C_C160 X_U1.C_C161 X_U1.C_C162 X_U1.C_C166 X_U1.C_C167 X_U1.C X_U1.C_C170 X_U1.C_C171 X_U1.C_C172 X_U1.C_C173 X_U1.C_C174 X_U1.C_C175 X_U1.C X_U1.C_C38 X_U1.C_C39 X_U1.C_C40 X_U1.C_C5 X_U1.C_C6 X_U1.C_C7 X_U1.C_C79 X_U1 X_U1.D_D54 X_U1.D_D63 X_U1.E_ABM1 X_U1.E_ABM12 X_U1.E_ABM13 X_U1.E_ABM14 X_U X_U1.E_ABM149 X_U1.E_ABM15 X_U1.E_ABM150 X_U1.E_ABM151 X_U1.E_ABM152 X_U1.E_ X_U1.E_ABM162 X_U1.E_ABM163 X_U1.E_ABM164 X_U1.E_ABM165 X_U1.E_ABM167 X_U1.E X_U1.E_ABM170 X_U1.E_ABM171 X_U1.E_ABM172 X_U1.E_ABM173 X_U1.E_ABM174 X_U1.E X_U1.E_ABM179 X_U1.E_ABM180 X_U1.E_ABM181 X_U1.E_ABM2 X_U1.E_ABM3 X_U1.E_ABM X_U1.E_ABM8 X_U1.G_ABM2I1 X_U1.G_ABMI4 X_U1.G_ABMI5 X_U1.G_ABMI6 X_U1.G_ABMI X_U1.I_I18 X_U1.R_R149 X_U1.R_R150 X_U1.R_R152 X_U1.R_R153 X_U1.R_R154 X_U1.R_R X_U1.R_R242 X_U1.R_R243 X_U1.R_R248 X_U1.R_R258 X_U1.R_R259 X_U1.R_R260 X_U1.R X_U1.R_R278 X_U1.R_R287 X_U1.R_R288 X_U1.R_R291 X_U1.R_R4 X_U1.V_V12 X_U1.V_V1

Followed by the Currents, Voltages and Power sections:

Simulation Data

Current Data

Pin Name	Bias Value	Max Current	Min Current	Average	RMS	Max di/dt
C137:1	-84.5684p	107.788m	-1.4276	-602.806m	810.485m	147.7k
C138:1	-1.6914n	565.805u	-2.0801m	-273.977u	712.873u	421.385k
C141:1	1.776f	140.447p	-2.3448u	-1.5897u	1.8102u	143.512m
C142:1	62.5463p	243.809n	-342.315n	-27.6915n	159.56n	22.1509
C145:1	-27.0a	370.274m	-415.191m	-500.274u	135.862m	2.1898G
C4:1	1.2499m	1.2499m	-1.9999u	-1.9793u	1.2119m	6.2497Meg
D12:A	-345.0a	2.909	-237.78m	1.1314	1.3803	25.7541G
L1:1	1.7775n	2.4977	-58.0979u	1.4494	1.5632	442.488k
R10:1	-776.9579n	-776.154n	-34.7446u	-34.5924u	34.646u	3.5533m
R238:1	-4.9876n	-4.9876n	-2.008u	-1.9703u	1.989u	0.0
R246:1	-84.5684p	107.788m	-1.4276	-602.806m	810.485m	132.781k

Voltage Data

Net Name	Bias value	Max Voltage	Min Voltage	Average	RMS	Max dV/dt
0	0.0	0.0	0.0	0.0	0.0	0.0
BOOT	239.9644u	18.0296	-19.216m	7.9803	9.2028	144.985G
COMP	494.6676m	1.0847	494.645m	918.647m	931.409m	4.9088k
DUMMY_TEMPIN	0.0	0.0	0.0	0.0	0.0	0.0
EN	38.8479m	1.7372	38.8077m	1.7296	1.7323	10.1247Meg
N01076	494.6676m	835.322m	494.667m	661.112m	670.746m	418.72
N01408	239.9643u	12.0277	-457.516m	1.895	4.912	144.985G
N01436	77.0a	3.288	0.0	1.8376	2.1807	6.489k
PH	239.9644u	12.0277	-237.385m	2.024	4.9722	144.985G
PWRGD	16.83f	3.2915	0.0	730.553m	1.5384	97.7767Meg
RT_CLK	1.2419m	499.998m	1.2419m	490.591m	495.26m	20.6003Meg
SS_TR	-127.4938u	1.1876	-1.1446m	589.977m	683.612m	999.957

Power Data

Device Name	Bias value	Max Power	Min Power	Average	RMS
C137	0.0	3.3536	-353.736m	991.023m	1.2889
C138	0.0	4.7403m	-1.8544m	450.386u	1.7422m
C141	-879.0a	1.6204u	-69.4747p	1.0572u	1.1266u
C142	-30.9396p	329.637n	-246.918n	20.4641n	67.5487n
C145	0.0	2.4909	-2.2214	1.5018m	47.6569m
C4	159.3592n	2.3609u	-2.2664n	1.1752u	1.3611u
D12	0.0	1.112	-820.641m	195.244m	242.995m
L1	426.54f	20.9735	-7.715	24.742m	7.5258
R10	30.1832n	60.3594u	30.1208n	60.0171u	60.1565u
R238	6.1941p	1.004u	6.1941p	985.072n	994.495n
R246	0.0	81.5182m	0.0	19.9163m	25.6874m
R249	0.0	555.231m	0.0	215.152m	246.643m