



C28SOI\_IO\_EXT\_CSF\_TESTMUX1V8\_-  
LR\_EG

TRnD/CIO

## IBIS Modeling Quality Report



IOS028\_FDSOI



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## MODELING

### 2.1 Pin/Part Model List

Model_Name	Model_Type	Notes
BD2_1V2	I/O	-
BD4_1V2	I/O	-
BD6_1V2	I/O	-
BD8_1V2	I/O	-
BD2_1V5_LOWEMI_0	I/O	-
BD2_1V5_LOWEMI_1	I/O	-
BD4_1V5_LOWEMI_0	I/O	-
BD4_1V5_LOWEMI_1	I/O	-
BD6_1V5_LOWEMI_0	I/O	-
BD6_1V5_LOWEMI_1	I/O	-
BD8_1V5_LOWEMI_0	I/O	-
BD8_1V5_LOWEMI_1	I/O	-
BD2_1V8_LOWEMI_0	I/O	-
BD2_1V8_LOWEMI_1	I/O	-
BD4_1V8_LOWEMI_0	I/O	-
BD4_1V8_LOWEMI_1	I/O	-
BD6_1V8_LOWEMI_0	I/O	-
BD6_1V8_LOWEMI_1	I/O	-
BD8_1V8_LOWEMI_0	I/O	-
BD8_1V8_LOWEMI_1	I/O	-

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## 2.2 Modeling Conditions

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Component Name: DummyChip\_C28SOI\_IO\_TESTMUX1V8\_LR\_EG

---

Model Name: BD2\_1V2

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.2V 1.08V 1.32V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.35125pF 1.35055pF 1.35205pF

Vinl and Vinh Values: typ/min/max

Vinl: 360.00000mV 360.00000mV 360.00000mV

Vinh: 840.00000mV 840.00000mV 840.00000mV

Test Load Settings :

Vref : 1.2V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 600.0mV

---

---

Model Name: BD4\_1V2

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.2V 1.08V 1.32V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.41565pF 1.41555pF 1.41730pF

Vinl and Vinh Values: typ/min/max

Vinl: 360.00000mV 360.00000mV 360.00000mV

Vinh: 840.00000mV 840.00000mV 840.00000mV

Test Load Settings :

Vref : 1.2V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 600.0mV

---

---

Model Name: BD6\_1V2

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.2V 1.08V 1.32V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.46470pF 1.46370pF 1.46710pF

V<sub>inl</sub> and V<sub>inh</sub> Values: typ/min/max

V<sub>inl</sub>: 360.00000mV 360.00000mV 360.00000mV

V<sub>inh</sub>: 840.00000mV 840.00000mV 840.00000mV

Test Load Settings :

V<sub>ref</sub> : 1.2V

C<sub>ref</sub> : 15.0pF

R<sub>ref</sub> : 1.0MΩ

V<sub>meas</sub>: 600.0mV

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---

Model Name: BD8\_1V2

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.2V 1.08V 1.32V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.53410pF 1.53230pF 1.53770pF

Vinl and Vinh Values: typ/min/max

Vinl: 360.00000mV 360.00000mV 360.00000mV

Vinh: 840.00000mV 840.00000mV 840.00000mV

Test Load Settings :

Vref : 1.2V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 600.0mV

---

---

Model Name: BD2\_1V5\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.36650pF 1.36620pF 1.36695pF

Vinl and Vinh Values: typ/min/max

Vinl: 630.00000mV 577.50000mV 682.50000mV

Vinh: 1.17000V 1.07250V 1.26750V

Test Load Settings :

Vref : 1.8V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 900.0mV

---

---

Model Name: BD2\_1V5\_LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.5V 1.35V 1.65V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.36080pF 1.36035pF 1.36140pF

Vinl and Vinh Values: typ/min/max

Vinl: 450.00000mV 405.00000mV 495.00000mV

Vinh: 1.05000V 945.00000mV 1.15500V

Test Load Settings :

Vref : 1.5V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 750.0mV

---

---

Model Name: BD4\_1V5\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.43080pF 1.42990pF 1.43390pF

V<sub>inl</sub> and V<sub>inh</sub> Values: typ/min/max

V<sub>inl</sub>: 630.00000mV 577.50000mV 682.50000mV

V<sub>inh</sub>: 1.17000V 1.07250V 1.26750V

Test Load Settings :

V<sub>ref</sub> : 1.8V

C<sub>ref</sub> : 15.0pF

R<sub>ref</sub> : 1.0MOhm

V<sub>meas</sub>: 900.0mV

---

---

Model Name: BD4\_1V5\_LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.5V 1.35V 1.65V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.42495pF 1.42485pF 1.42670pF

Vinl and Vinh Values: typ/min/max

Vinl: 450.00000mV 405.00000mV 495.00000mV

Vinh: 1.05000V 945.00000mV 1.15500V

Test Load Settings :

Vref : 1.5V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 750.0mV

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---

Model Name: BD6\_1V5\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.47955pF 1.47795pF 1.48245pF

V<sub>inl</sub> and V<sub>inh</sub> Values: typ/min/max

V<sub>inl</sub>: 630.00000mV 577.50000mV 682.50000mV

V<sub>inh</sub>: 1.17000V 1.07250V 1.26750V

Test Load Settings :

V<sub>ref</sub> : 1.8V

C<sub>ref</sub> : 15.0pF

R<sub>ref</sub> : 1.0MOhm

V<sub>meas</sub>: 900.0mV

---

---

Model Name: BD6\_1V5\_LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.5V 1.35V 1.65V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.47375pF 1.47290pF 1.47640pF

Vinl and Vinh Values: typ/min/max

Vinl: 450.00000mV 405.00000mV 495.00000mV

Vinh: 1.05000V 945.00000mV 1.15500V

Test Load Settings :

Vref : 1.5V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 750.0mV

---

---

Model Name: BD8\_1V5\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.5V 1.35V 1.65V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.54330pF 1.54180pF 1.54670pF

Vinl and Vinh Values: typ/min/max

Vinl: 450.00000mV 405.00000mV 495.00000mV

Vinh: 1.05000V 945.00000mV 1.15500V

Test Load Settings :

Vref : 1.5V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 750.0mV

---



---

Model Name: BD8\_1V5\_LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.5V 1.35V 1.65V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.54330pF 1.54180pF 1.54675pF

Vinl and Vinh Values: typ/min/max

Vinl: 450.00000mV 405.00000mV 495.00000mV

Vinh: 1.05000V 945.00000mV 1.15500V

Test Load Settings :

Vref : 1.5V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 750.0mV

---

---

Model Name: BD2\_1V8\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.36650pF 1.36615pF 1.36665pF

V<sub>inl</sub> and V<sub>inh</sub> Values: typ/min/max

V<sub>inl</sub>: 630.00000mV 577.50000mV 682.50000mV

V<sub>inh</sub>: 1.17000V 1.07250V 1.26750V

Test Load Settings :

V<sub>ref</sub> : 1.8V

C<sub>ref</sub> : 15.0pF

R<sub>ref</sub> : 1.0MOhm

V<sub>meas</sub>: 900.0mV

---

---

Model Name: BD2\_1V8.LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.36650pF 1.36600pF 1.36705pF

V<sub>inl</sub> and V<sub>inh</sub> Values: typ/min/max

V<sub>inl</sub>: 630.00000mV 577.50000mV 682.50000mV

V<sub>inh</sub>: 1.17000V 1.07250V 1.26750V

Test Load Settings :

V<sub>ref</sub> : 1.8V

C<sub>ref</sub> : 15.0pF

R<sub>ref</sub> : 1.0MOhm

V<sub>meas</sub>: 900.0mV

---

---

Model Name: BD4\_1V8\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.43075pF 1.42990pF 1.43230pF

V<sub>inl</sub> and V<sub>inh</sub> Values: typ/min/max

V<sub>inl</sub>: 630.00000mV 577.50000mV 682.50000mV

V<sub>inh</sub>: 1.17000V 1.07250V 1.26750V

Test Load Settings :

V<sub>ref</sub> : 1.8V

C<sub>ref</sub> : 15.0pF

R<sub>ref</sub> : 1.0MOhm

V<sub>meas</sub>: 900.0mV

---

---

Model Name: BD4\_1V8\_LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature( $T_j$ ): typ/min/max

$T_j$ : 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.43055pF 1.42985pF 1.43285pF

V<sub>inl</sub> and V<sub>inh</sub> Values: typ/min/max

V<sub>inl</sub>: 630.00000mV 577.50000mV 682.50000mV

V<sub>inh</sub>: 1.17000V 1.07250V 1.26750V

Test Load Settings :

V<sub>ref</sub> : 1.8V

C<sub>ref</sub> : 15.0pF

R<sub>ref</sub> : 1.0MOhm

V<sub>meas</sub>: 900.0mV

---

---

Model Name: BD6\_1V8\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.47950pF 1.47795pF 1.48230pF

Vinl and Vinh Values: typ/min/max

Vinl: 630.00000mV 577.50000mV 682.50000mV

Vinh: 1.17000V 1.07250V 1.26750V

Test Load Settings :

Vref : 1.8V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 900.0mV

---

---

Model Name: BD6\_1V8\_LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.47960pF 1.47805pF 1.48275pF

Vinl and Vinh Values: typ/min/max

Vinl: 630.00000mV 577.50000mV 682.50000mV

Vinh: 1.17000V 1.07250V 1.26750V

Test Load Settings :

Vref : 1.8V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 900.0mV

---

---

Model Name: BD8\_1V8\_LOWEMI\_0

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.54910pF 1.54685pF 1.55345pF

Vinl and Vinh Values: typ/min/max

Vinl: 630.00000mV 577.50000mV 682.50000mV

Vinh: 1.17000V 1.07250V 1.26750V

Test Load Settings :

Vref : 1.8V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 900.0mV

---



---

Model Name: BD8\_1V8\_LOWEMI\_1

Model Type: I/O

PAD Supply Voltage: typ/min/max

VDDE: 1.8V 1.65V 1.95V

Junction Temperature(Tj): typ/min/max

Tj: 25.0 125.0 -40.0

Process Setting: typ/min/max

Corner: typ worst best

Ramp R\_load Value: 50.0[Ohm]

V/T Waveforms Request

R\_fixture to GND and POWER termination (Rising=2 and Falling=2)

R\_fixture = 50.0 Ohms

C\_comp Values: typ/min/max

C\_comp: 1.54910pF 1.54685pF 1.55255pF

Vinl and Vinh Values: typ/min/max

Vinl: 630.00000mV 577.50000mV 682.50000mV

Vinh: 1.17000V 1.07250V 1.26750V

Test Load Settings :

Vref : 1.8V

Cref : 15.0pF

Rref : 1.0MOhm

Vmeas: 900.0mV

---

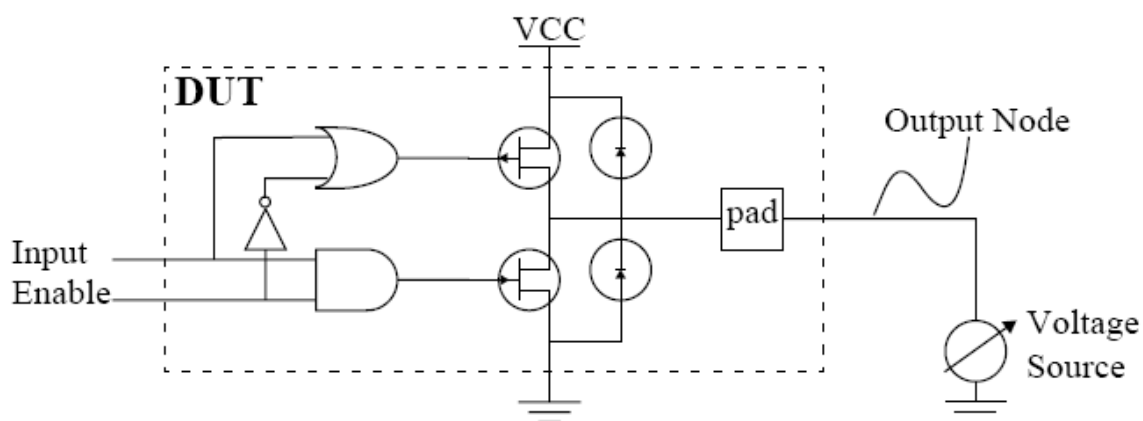
---

## 2.3 Circuit For Data Extraction

The Data is Extracted based on the following circuit

### 2.3.1 Extracting I/V Data

1	How I/V data was measured/extracted?	Extracted from Spice simulations.
2	What states are used for data extraction(high, low etc.)?	Depending on the I/V data.
3	Pulldown data is created from state(high, low, hi-Z).	Low
4	Pullup data is created from state.	High
5	Gnd_Clamp and Power_Clamp data are created from state.	three state

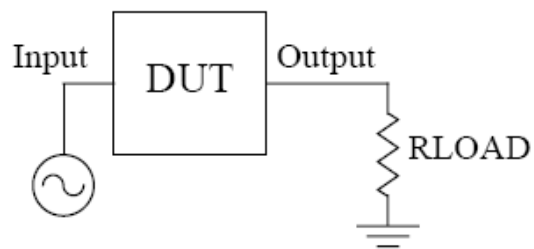


---

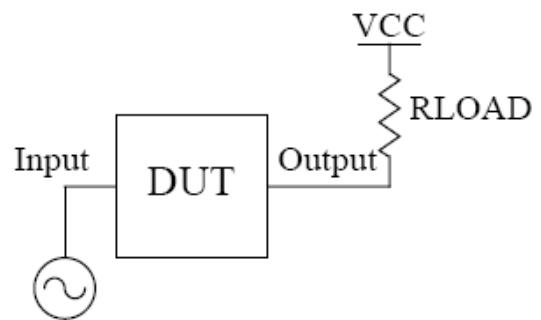
### 2.3.2 Extracting V/T Data

1	How V/T data was measured/extracted?	Extracted from Spice simulations.
---	--------------------------------------	-----------------------------------

Load resistor tied to ground



Load resistor tied to VCC



---

---

## QUALITY VERIFICATION

Check	Vendor comments	Done	Not-done
All steps from checklist on NMP IBIS specification done (Chapter 5).	Packaging data missing.	Yes	-
Simulations with SPICE buffer models and results inserted to document. Circuit given in "NMP IBIS specification" should be used (Chapter 5.1).	input buffers not checked	Yes	-
Optional simulations with IBIS models and simulation result comparison with SPICE results.	-	Yes	-

### 3.1 Syntax Check By IBIS Parser

IBISCHK6 V6.0.0

Checking ./IBIS/ff28\_1.15V\_1.95V\_m40C\_ss28\_0.80V\_1.65V\_125C/c28soi.io\_testmux1v8\_lr\_-eg.ibs for IBIS 4.2 Compatibility...

Errors : 0

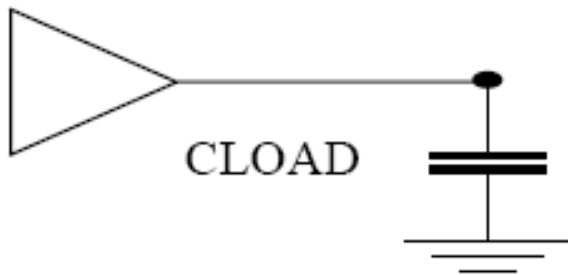
File Passed

---

### 3.2 Behaviour Verification

1	Simulator used for IBIS Vs SPICE models comparison	Eldo® from Mentor Graphics®.
2	Comparison results (How well/bad results are matched?)	Good matching.

Circuit used for obtaining SPICE results:



Test load parameters used for performing the simulation for open drain models :

For Push-Pull Models :

---

Cell name	Load	Frequency
BD2_1V2	470pF	2.5MHz
BD4_1V2	470pF	2.5MHz
BD6_1V2	470pF	2.5MHz
BD8_1V2	470pF	2.5MHz
BD2_1V5_LOWEMI_0	15pF	20MHz
BD2_1V5_LOWEMI_1	15pF	10MHz
BD4_1V5_LOWEMI_0	15pF	40MHz
BD4_1V5_LOWEMI_1	15pF	20MHz
BD6_1V5_LOWEMI_0	15pF	50MHz
BD6_1V5_LOWEMI_1	15pF	25MHz
BD8_1V5_LOWEMI_0	15pF	60MHz
BD8_1V5_LOWEMI_1	15pF	30MHz
BD2_1V8_LOWEMI_0	15pF	50MHz
BD2_1V8_LOWEMI_1	15pF	25MHz
BD4_1V8_LOWEMI_0	15pF	80MHz
BD4_1V8_LOWEMI_1	15pF	40MHz

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BD6\_1V8\_LOWEMI\_0 15pF 100MHz  
BD6\_1V8\_LOWEMI\_1 15pF 50MHz  
BD8\_1V8\_LOWEMI\_0 15pF 120MHz  
BD8\_1V8\_LOWEMI\_1 15pF 60MHz

NOTE :

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1. "Resolution of the V/I tables should be at least 100mV. This guarantees acceptable accuracy"

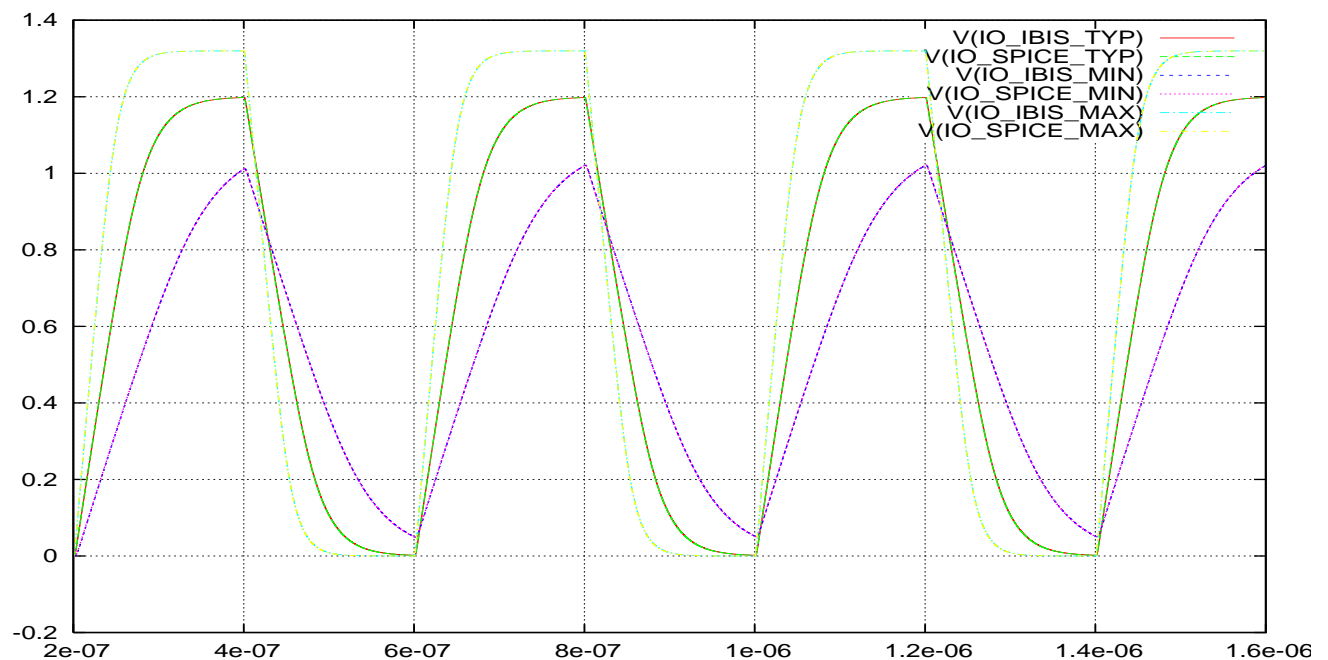
This statement is not valid.

In the V/I tables more than 100 points cannot be supported. Thus for maintaining the accuracy only the best 100 points are selected. Where there is no variation in current w.r.t voltage, there is no need to take another point.

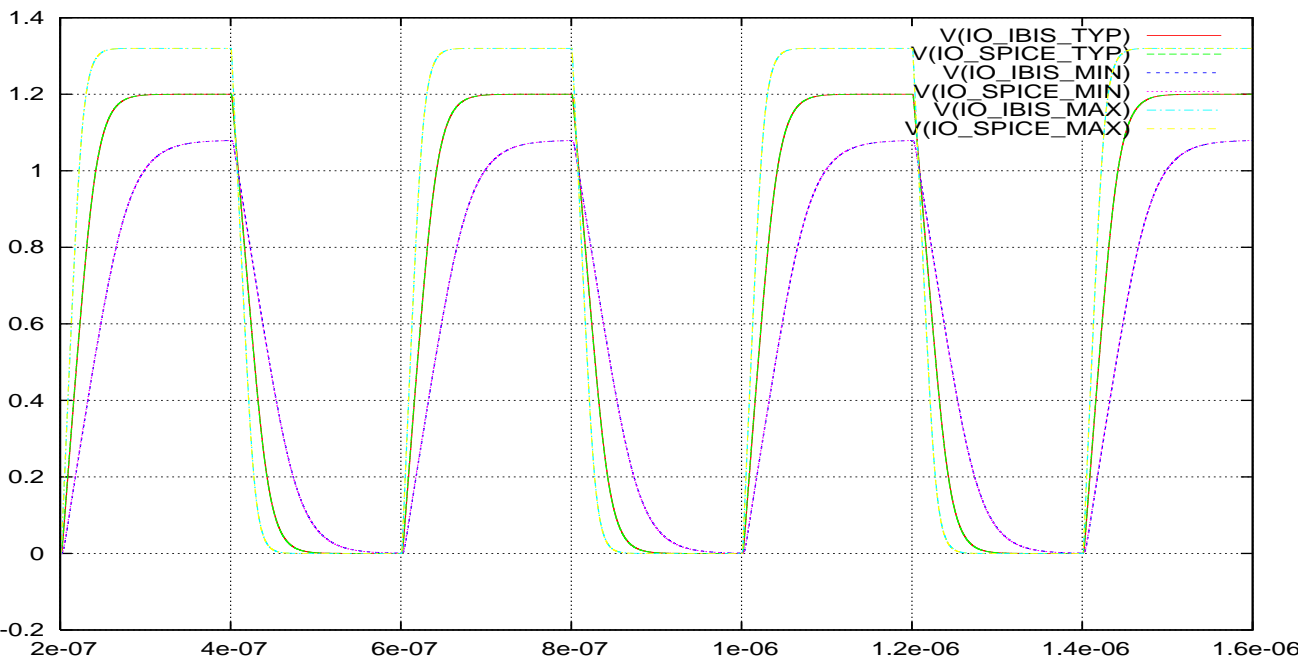
### 3.2.1 Verification results

#### BD2\_1V2

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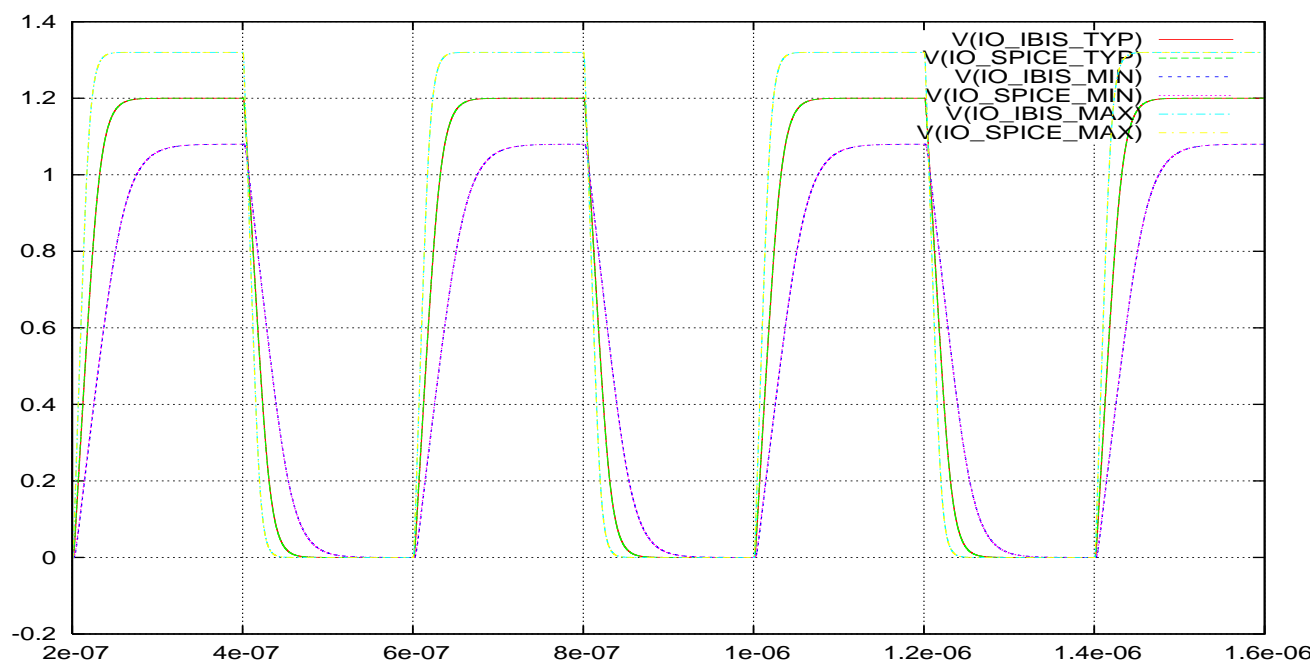


# BD4\_1V2

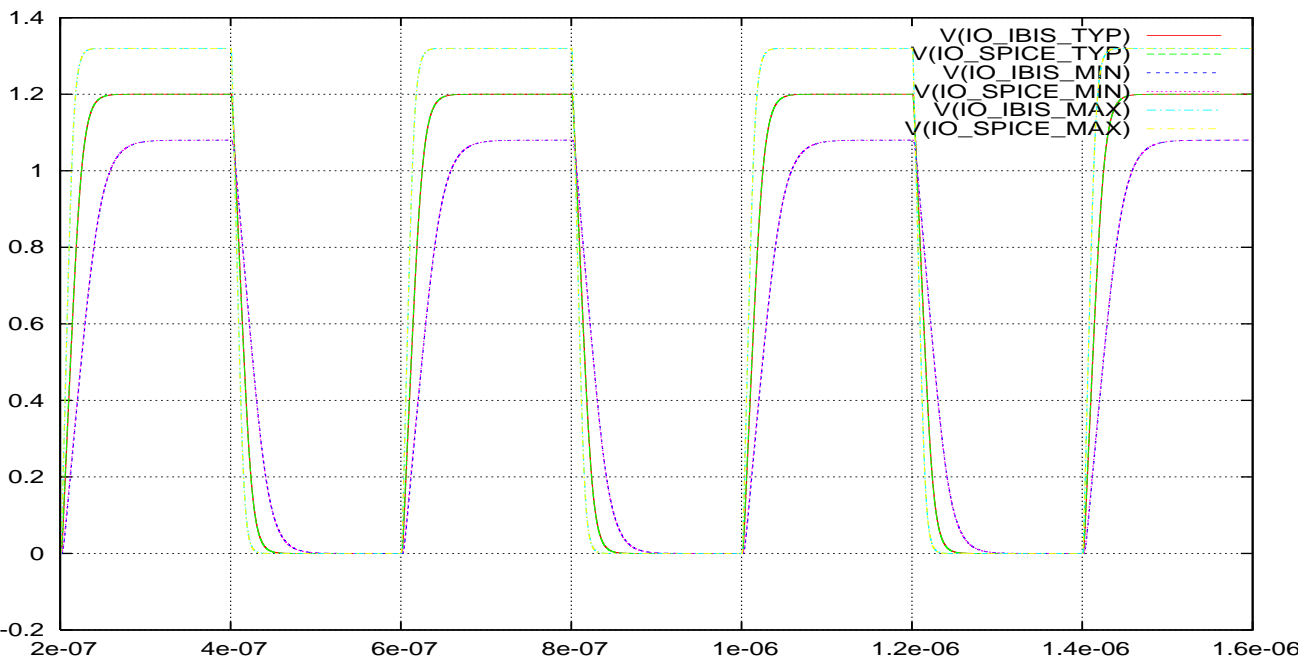




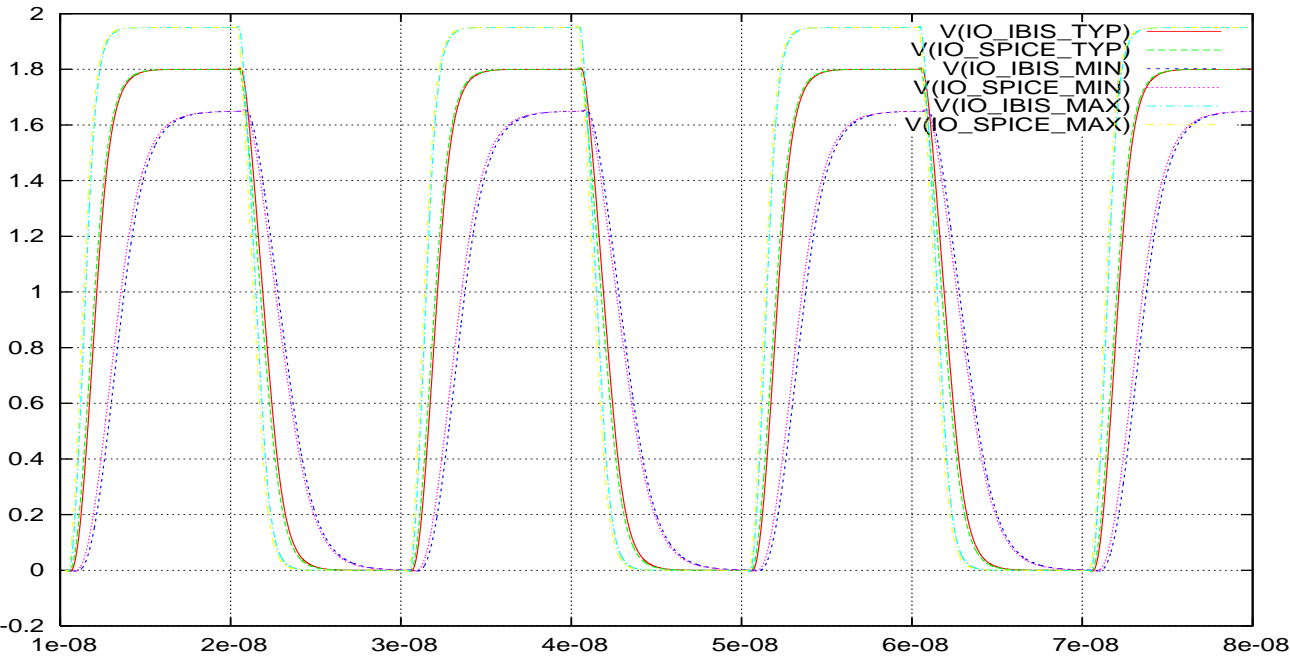
# BD6\_1V2



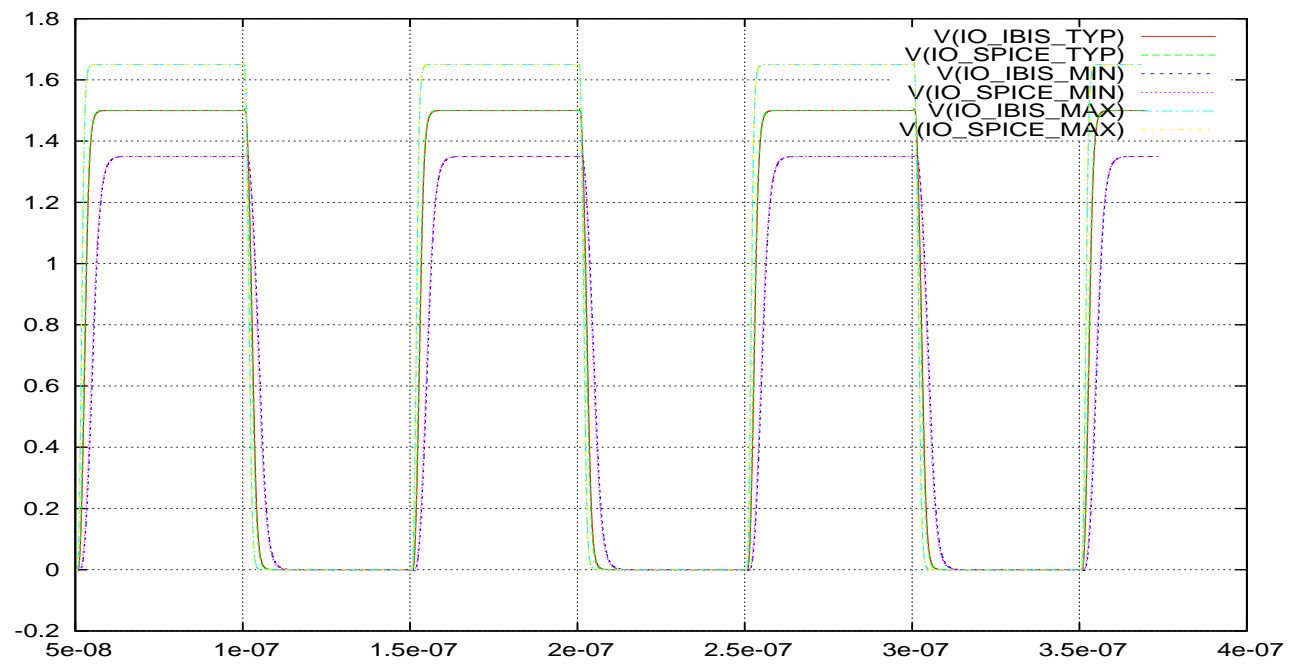
# BD8\_1V2



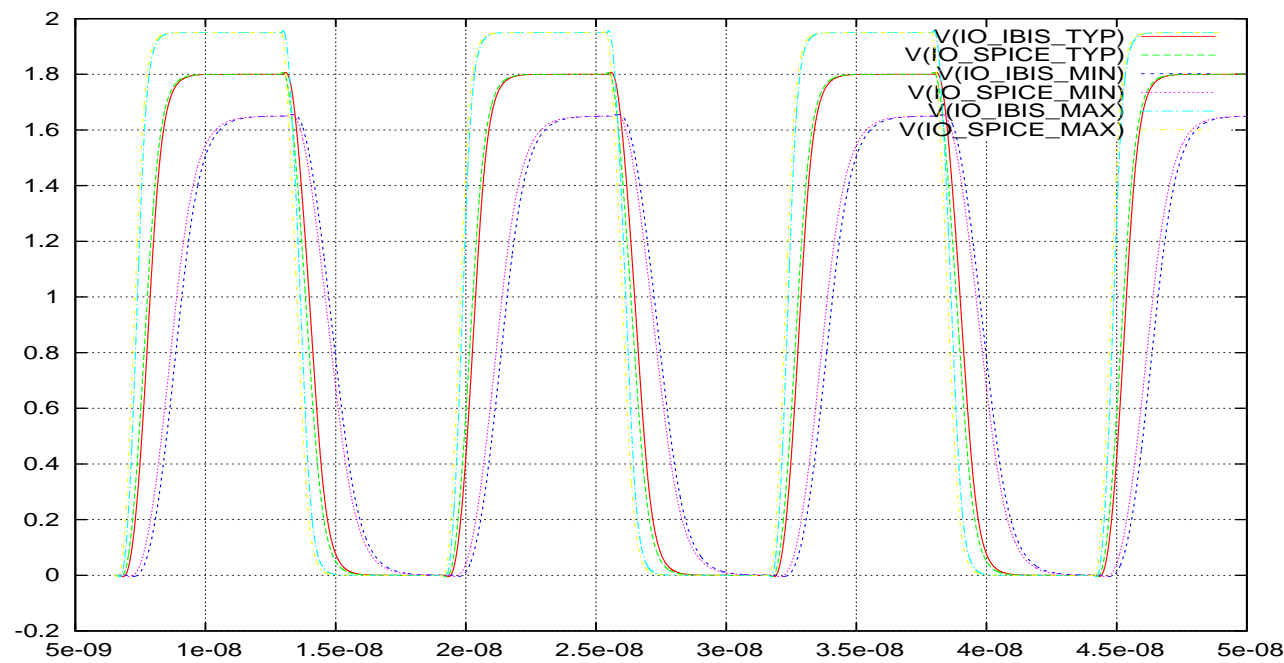
# BD2\_1V5\_LOWEMI\_0



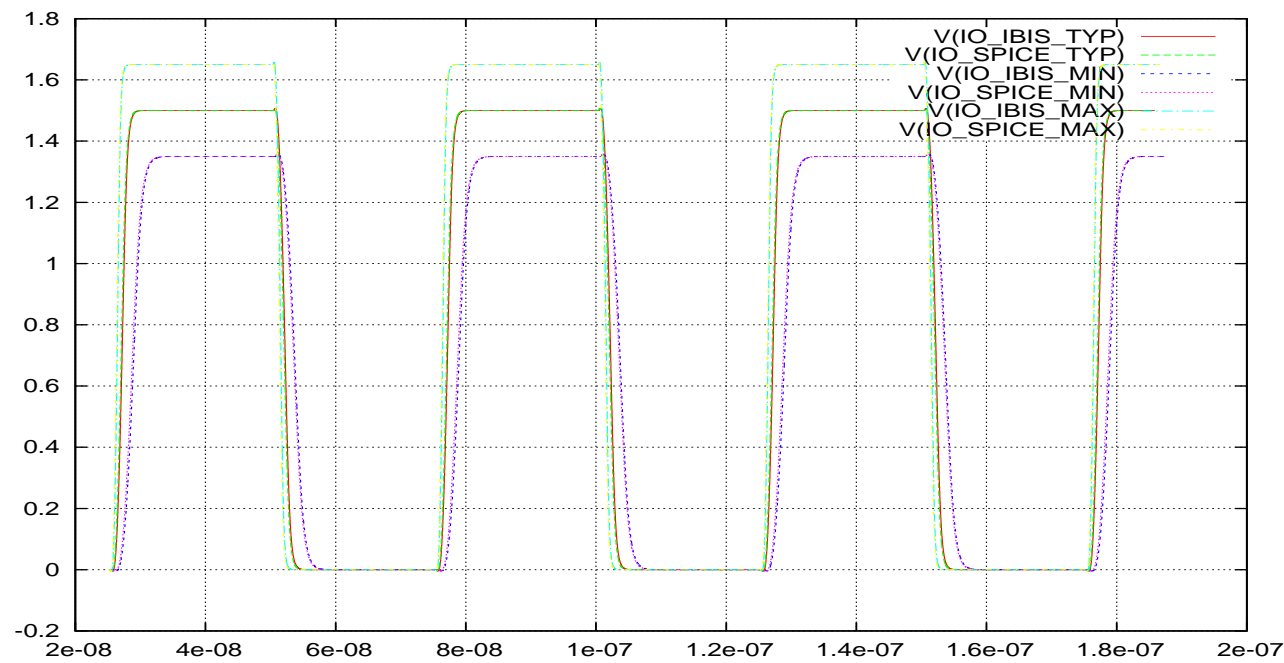
BD2\_1V5\_LOWEMI\_1



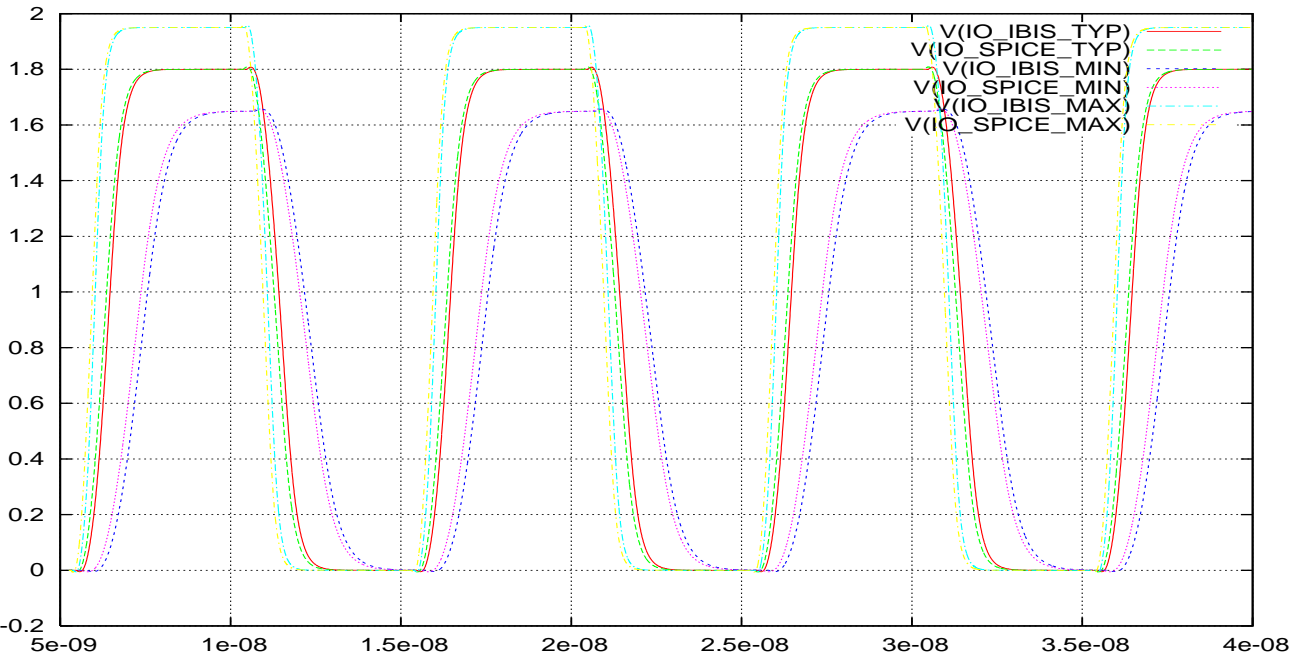
# BD4\_1V5\_LOWEMI\_0



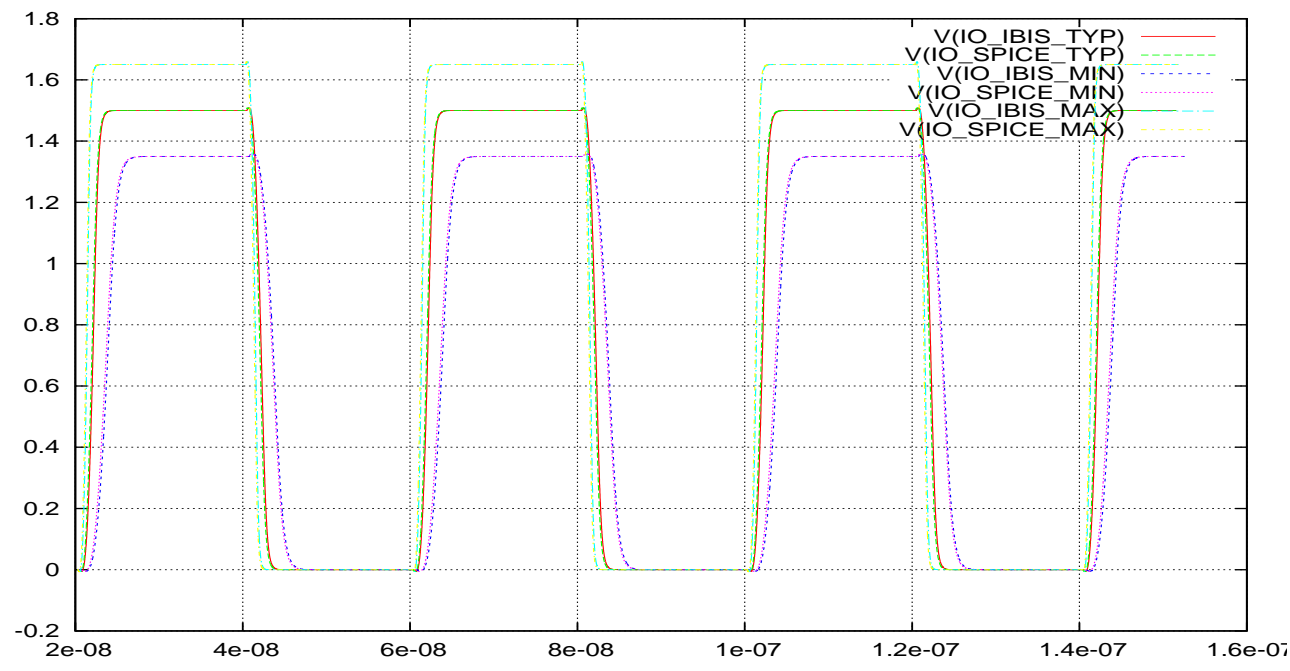
# BD4\_1V5\_LOWEMI\_1



# BD6\_1V5\_LOWEMI\_0

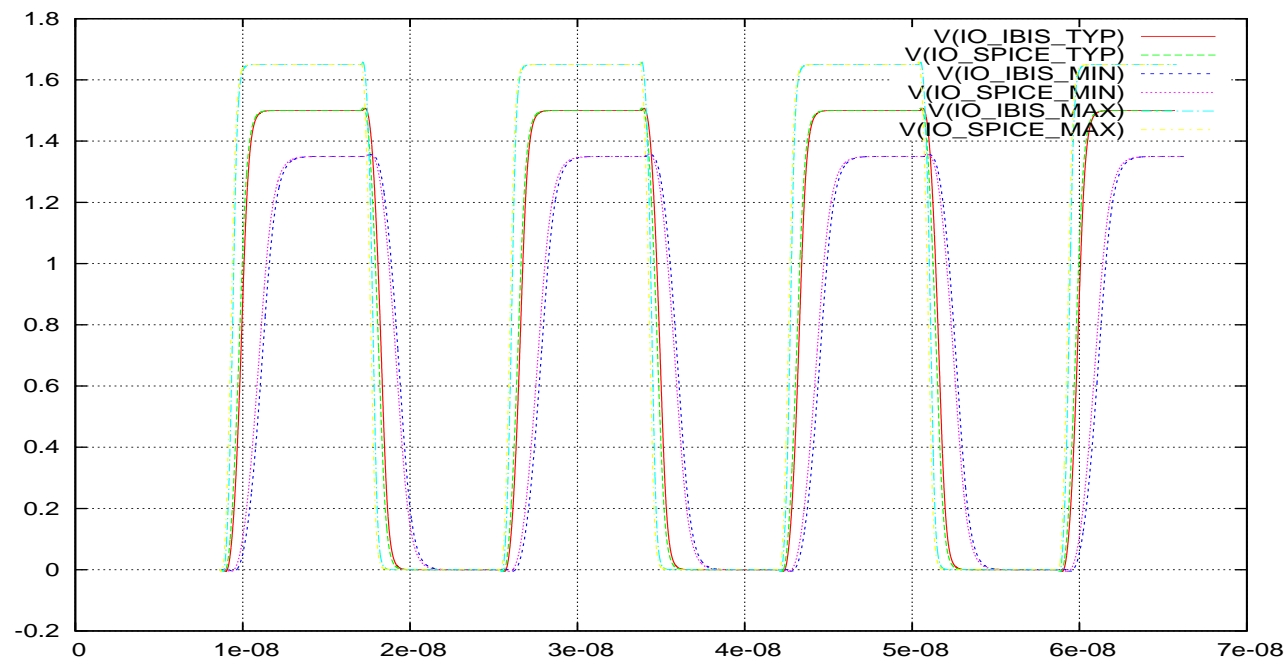


BD6\_1V5\_LOWEMI\_1

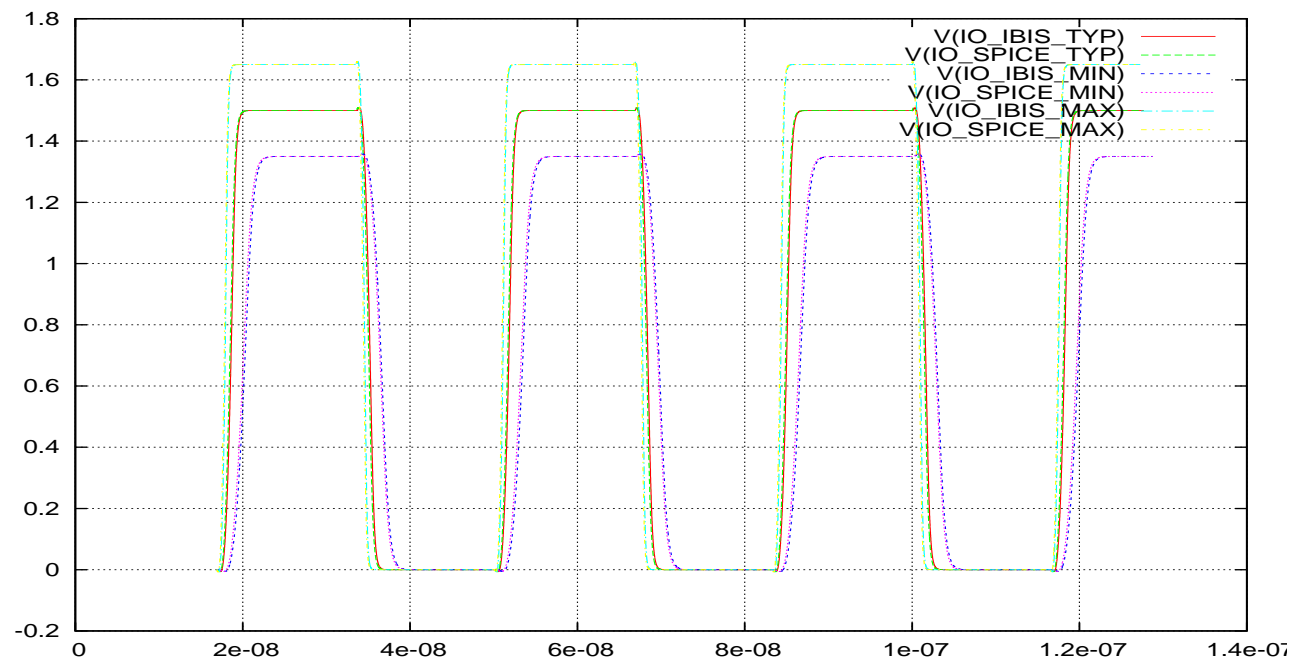




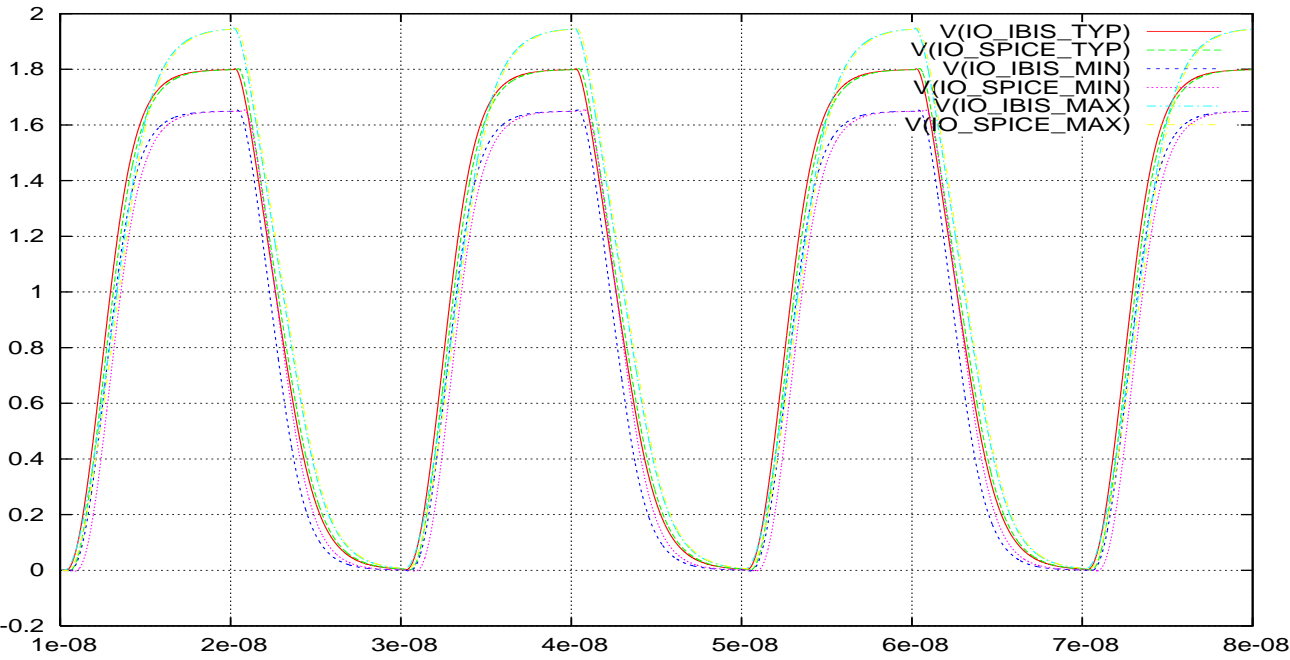
# BD8\_1V5\_LOWEMI\_0



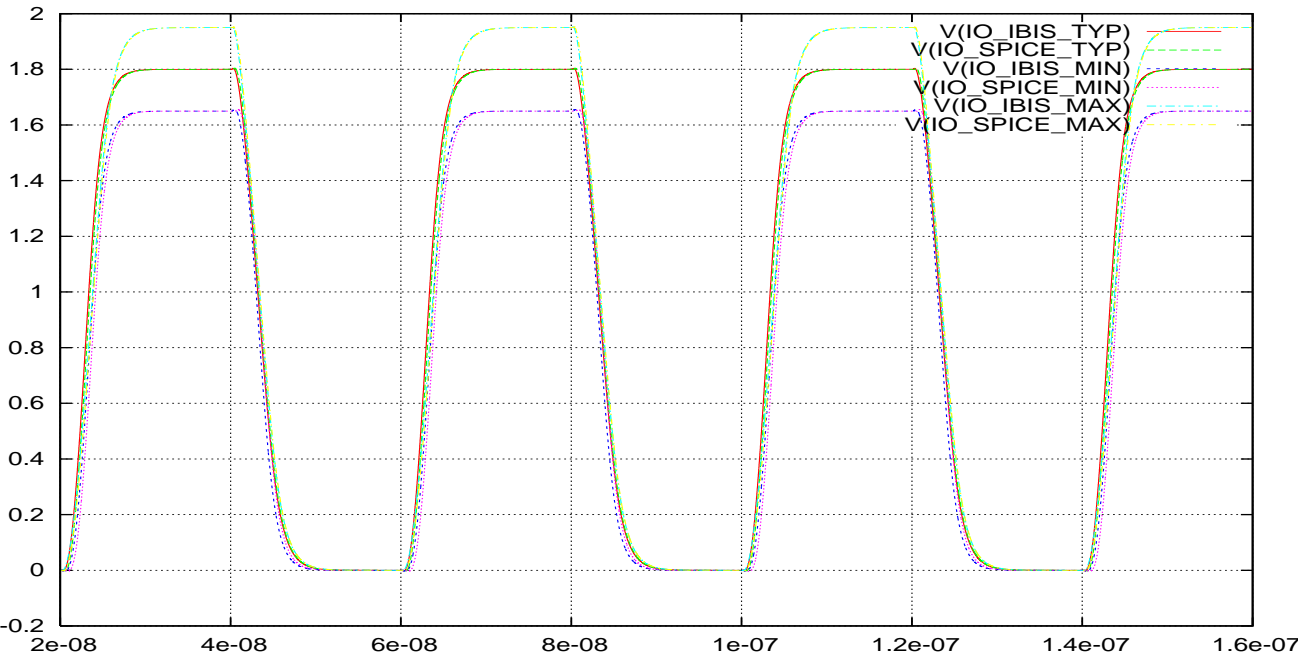
BD8\_1V5\_LOWEMI\_1



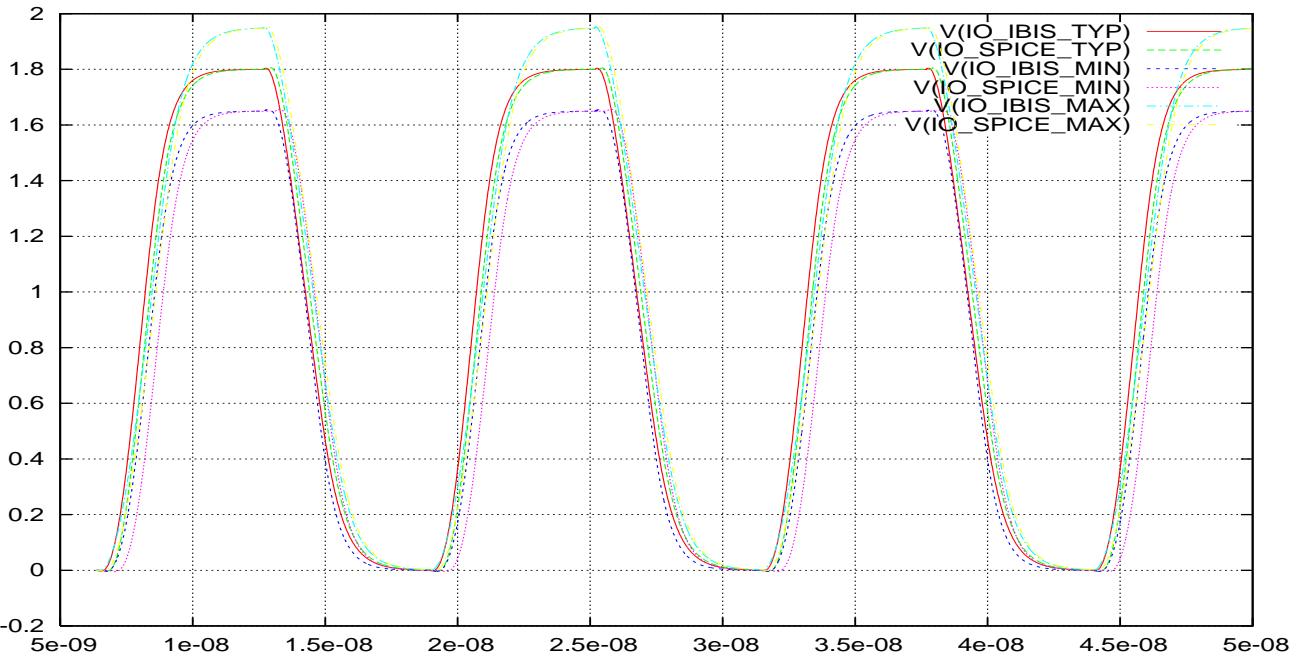
# BD2\_1V8\_LOWEMI\_0



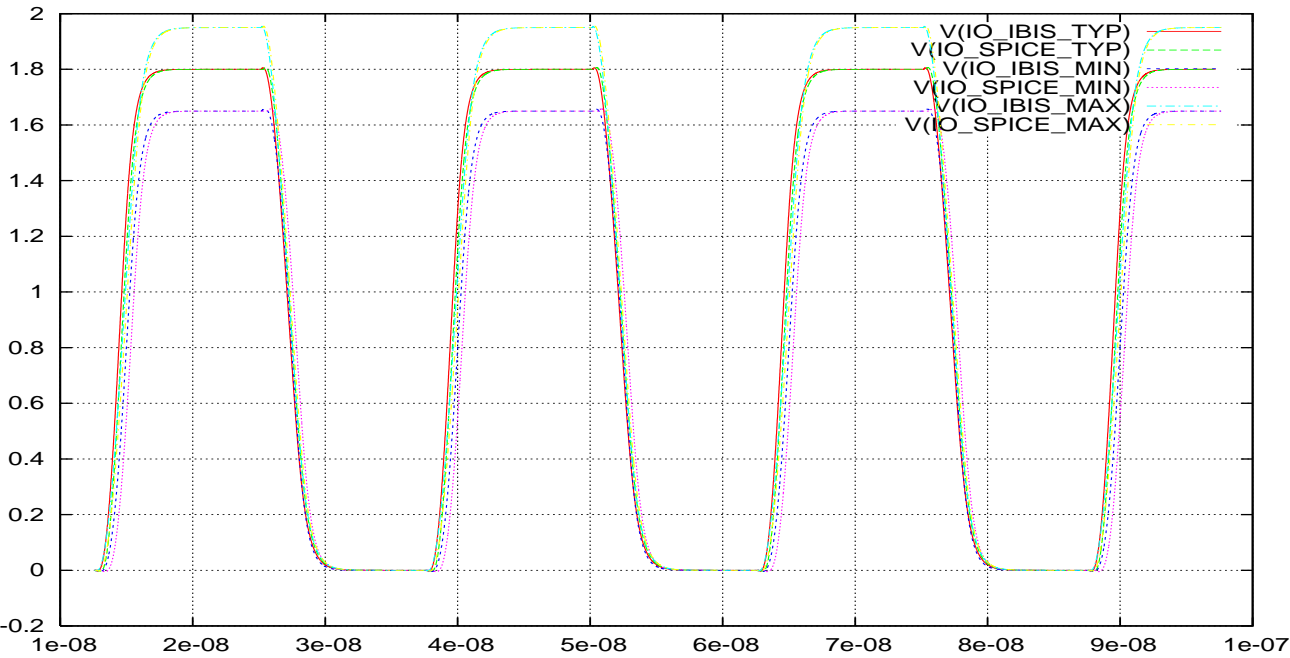
BD2\_1V8\_LOWEMI\_1



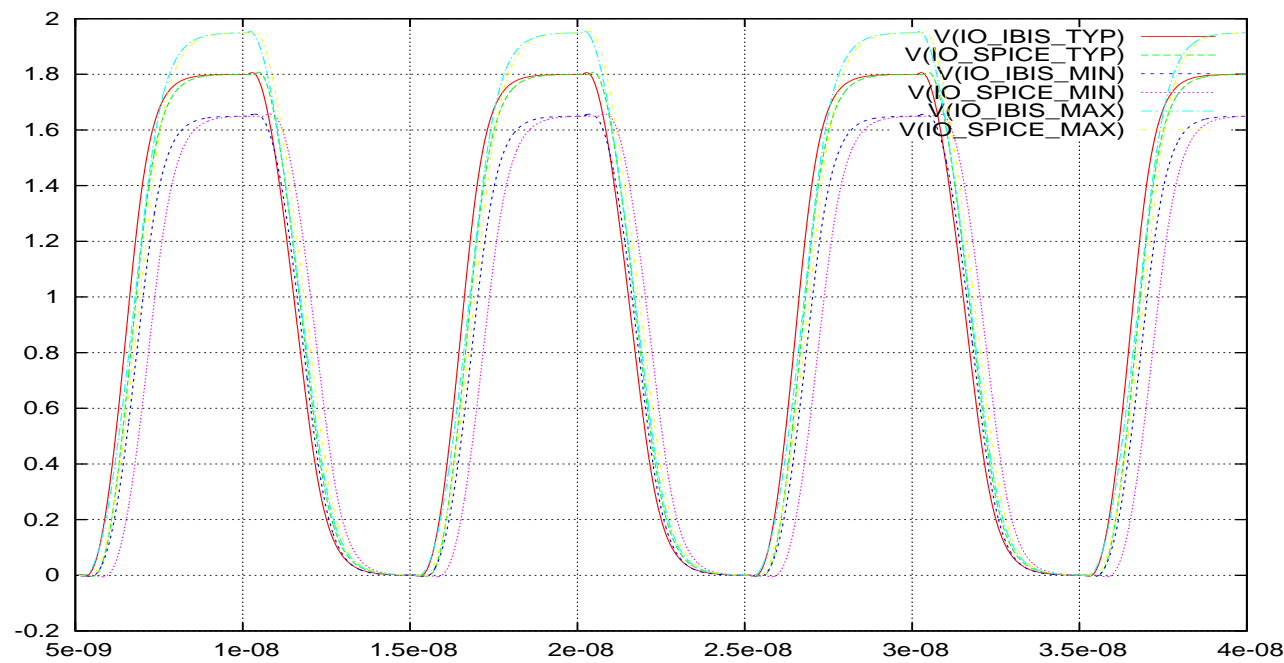
# BD4\_1V8\_LOWEMI\_0



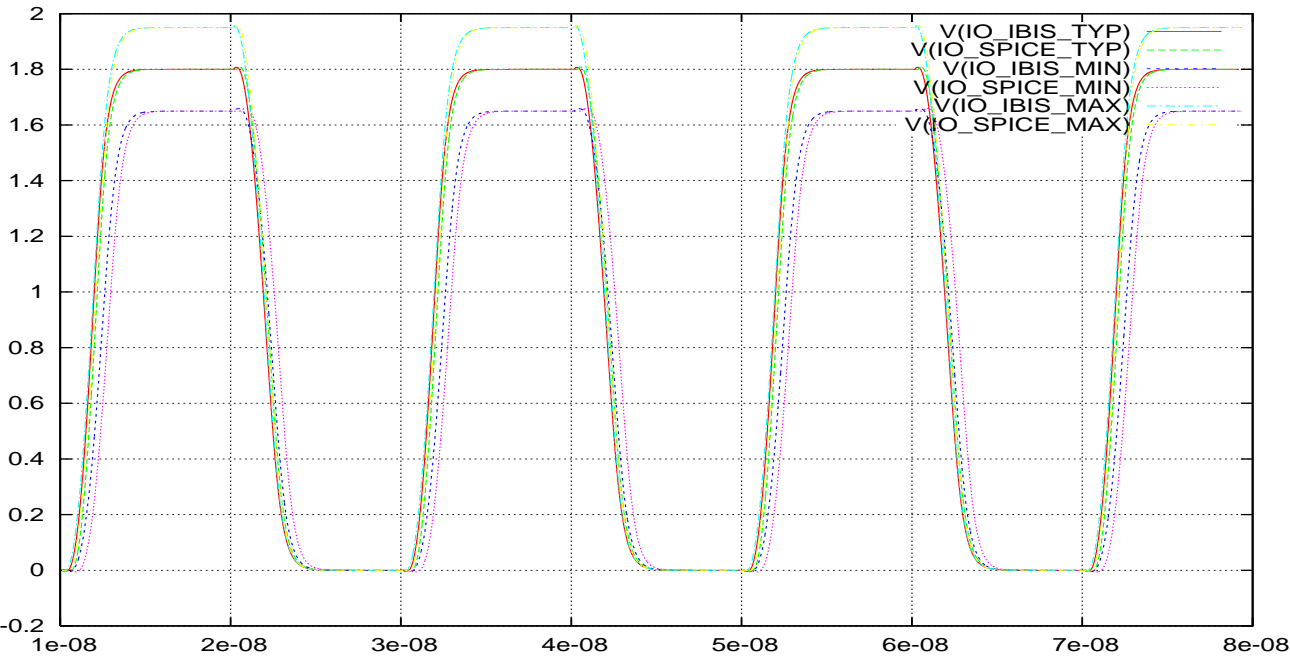
# BD4\_1V8\_LOWEMI\_1



# BD6\_1V8\_LOWEMI\_0

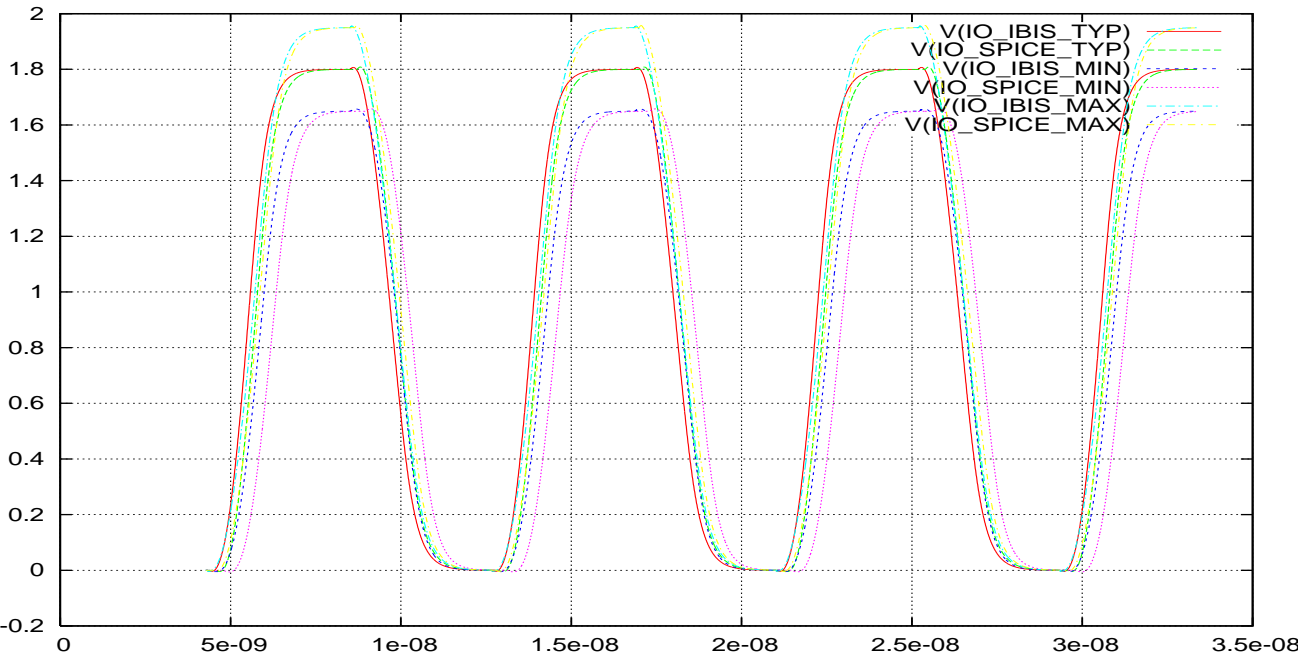


BD6\_1V8\_LOWEMI\_1





# BD8\_1V8\_LOWEMI\_0



BD8\_1V8\_LOWEMI\_1

