Transient Simulation Report

1 General Information

1.1 Dat file

c:\cadence\half adder-PSpiceFiles\SCHEMATIC1\halfFir\halfFir.dat

1.2 Analysis Name

Transient Analysis

1.3 Circuit Name

** Profile: "SCHEMATIC1-halfFir" [c:\cadence\half adder-pspicefiles\schematic1\halffir.sim]

1.4 Simulation Time

03/26/21 23:33:33

1.5 PSpice Version

17.4.0

1.6 Sweep Data

Sweep Mode: 4

Starting Sweep Value: 0 Ending Sweep Value: 0.05

2 Circuit Information

2.1 List of Nets

| | Net Name | Aliases |
|---|----------|---------|
| ı | | |

| | Cimalation report |
|--------|---|
| 0 | A1:- A:- M10:S M10:S M12:S M12:S M15:S M15:S M16:S M16:S M1:S M1:S M4:S M4:S V1:- V2:- V3:- V4:- B1:- B:- |
| N06416 | M13:G M16:G M1:D M2:D M5:G M9:G |
| N06420 | M2:S M2:S V1:+ |
| N06457 | A:+ M1:G M2:G M6:G |
| N06769 | M3:S M3:S V2:+ |
| N06807 | M3:G M4:G B:+ |
| N06863 | M10:G M14:G M15:G M3:D M4:D M7:G |
| N07205 | M5:S M5:S M7:S W3:+ |
| N07233 | M5:D M6:S M6:S M7:D M8:S M8:S |
| N07241 | M11:D M6:D M8:D M9:D |
| N07357 | M10:D M9:S M9:S |
| N07361 | M11:S M11:S M12:D |
| N10360 | M12:G M8:G B1:+ |
| N10452 | A1:+ M11:G |
| N10798 | M13:S M13:S V4:+ |
| N10866 | M13:D M14:S M14:S |
| N10995 | M14:D M15:D M16:D |

List of Nets

2.2 List of Devices

| Device Name | List of Pins |
|--------------------|--------------|
| Α | + - |
| A1 | + - |
| В | + - |
| B1 | + - |
| M1 | DGSS |
| M10 | DGSS |
| M11 | DGSS |
| M12 | DGSS |
| M13 | DGSS |
| M14 | DGSS |
| | |

| M15 | DGSS |
|-----|------|
| M16 | DGSS |
| M2 | DGSS |
| M3 | DGSS |
| M4 | DGSS |
| M5 | DGSS |
| M6 | DGSS |
| M7 | DGSS |
| M8 | DGSS |
| M9 | DGSS |
| V1 | + - |
| V2 | + - |
| V3 | + - |
| V4 | + - |

List of Devices

PASS 0

Simulation Data

Current Data

| 0.0 | | 0.0 | 0.0 |
|---------------|--------------------------------------|--|---|
| 0.0 | | | 0.0 |
| | 0.0 | 0.0 | 0.0 |
| 0.0 | 0.0 | 0.0 | 0.0 |
| 0.0 | 0.0 | 0.0 | 0.0 |
| 354u -31.8186 | Sa 6.5456p 2 | 2.351u | 2.2669Meg |
| 0.0 | 0.0 | 0.0 | 0.0 |
| 34a -5.0143p | -1.2526p | 3.5427p | 90.7841m |
| 516u -897.653 | 3f 8.1303p 2 | 23.5674u | 180.827k |
| | 354u -31.8186 0.0 34a -5.0143p | 354u -31.8186a 6.5456p 2 0.0 0.0 0 34a -5.0143p -1.2526p 2 | 354u -31.8186a 6.5456p 2.351u 0.0 0.0 0.0 34a -5.0143p -1.2526p 3.5427p |

| M11:G 0.0 0.0 0.0 0.0 0.0 M11:S -692.0a 4.622a -5.0146p -1.2527p 3.5426p 66.8466m M12:D 49.5152n 49.6137u -957.758f 8.1529p 23.5673u 181.253k M12:G 0.0 0.0 0.0 0.0 0.0 0.0 M12:S -692.0a 2.5785a -5.0137p -1.2523p 2.892p 176.563m M13:D -11.2959p -2.5082p -27.3265u -6.2737p 2.1054u 141.453k M13:G 0.0 0.0 0.0 0.0 0.0 0.0 M13:S 0.0 5.0135p -11.1821a 1.8798p 3.9618p 233.384m M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m | 2021 | | | Simulation | героп | | |
|--|-------|-----------|----------|------------|----------|----------|-----------|
| M12:D 49.5152n 49.6137u -957.758f 8.1529p 23.5673u 181.253k M12:G 0.0 0.0 0.0 0.0 0.0 0.0 M12:S -692.0a 2.5785a -5.0137p -1.2523p 2.892p 176.563m M13:D -11.2959p -2.5082p -27.3265u -6.2737p 2.1054u 141.453k M13:G 0.0 0.0 0.0 0.0 0.0 0.0 M13:S 0.0 5.0135p -11.1821a 1.8798p 3.9618p 233.384m M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M15:S | M11:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M12:G 0.0 0.0 0.0 0.0 0.0 M12:S -692.0a 2.5785a -5.0137p -1.2523p 2.892p 176.563m M13:D -11.2959p -2.5082p -27.3265u -6.2737p 2.1054u 141.453k M13:G 0.0 0.0 0.0 0.0 0.0 0.0 M13:S 0.0 5.0135p -11.1821a 1.8798p 3.9618p 233.384m M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M15:S 5.6479p 13.6633u -12.741a 1.8803p 3.5244p 526.909m M16:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 </td <td>M11:S</td> <td>-692.0a</td> <td>4.622a</td> <td>-5.0146p</td> <td>-1.2527p</td> <td>3.5426p</td> <td>66.8466m</td> | M11:S | -692.0a | 4.622a | -5.0146p | -1.2527p | 3.5426p | 66.8466m |
| M12:S -692.0a 2.5785a -5.0137p -1.2523p 2.892p 176.563m M13:D -11.2959p -2.5082p -27.3265u -6.2737p 2.1054u 141.453k M13:G 0.0 0.0 0.0 0.0 0.0 0.0 M13:S 0.0 5.0135p -11.1821a 1.8798p 3.9618p 233.384m M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M15:G 5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:G 0.0 0.0 0.0 0.0 0.0 28.0297m | M12:D | 49.5152n | 49.6137u | -957.758f | 8.1529p | 23.5673u | 181.253k |
| M13:D -11.2959p -2.5082p -27.3265u -6.2737p 2.1054u 141.453k M13:G 0.0 0.0 0.0 0.0 0.0 0.0 M13:S 0.0 5.0135p -11.1821a 1.8798p 3.9618p 233.384m M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:G 0.0 0.0 0.0 0.0 0.0 0.0 | M12:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M13:G 0.0 0.0 0.0 0.0 0.0 0.0 M13:S 0.0 5.0135p -11.1821a 1.8798p 3.9618p 233.384m M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M1:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M1:G 0.0 0.0 0.0 0.0 0.0 0.0 | M12:S | -692.0a | 2.5785a | -5.0137p | -1.2523p | 2.892p | 176.563m |
| M13:S 0.0 5.0135p -11.1821a 1.8798p 3.9618p 233.384m M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k | M13:D | -11.2959p | -2.5082p | -27.3265u | -6.2737p | 2.1054u | 141.453k |
| M14:D -11.2959p -2.5086p -27.3262u -6.2729p 2.1056u 141.451k M14:G 0.0 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:D -25.005n - | M13:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M14:G 0.0 0.0 0.0 0.0 0.0 M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.004n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k <td< td=""><td>M13:S</td><td>0.0</td><td>5.0135p</td><td>-11.1821a</td><td>1.8798p</td><td>3.9618p</td><td>233.384m</td></td<> | M13:S | 0.0 | 5.0135p | -11.1821a | 1.8798p | 3.9618p | 233.384m |
| M14:S 0.0 5.01p -1.2741a 1.8803p 3.5244p 526.909m M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0< | M14:D | -11.2959p | -2.5086p | -27.3262u | -6.2729p | 2.1056u | 141.451k |
| M15:D 5.6479p 13.6633u -13.8908a 3.259p 1.0527u 126.925k M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 237.836k | M14:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M15:G 0.0 0.0 0.0 0.0 0.0 0.0 M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.013p -11.2468a 2.505p 5.01p 290.346m M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M3:G | M14:S | 0.0 | 5.01p | -1.2741a | 1.8803p | 3.5244p | 526.909m |
| M15:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M4: | M15:D | 5.6479p | 13.6633u | -13.8908a | 3.259p | 1.0527u | 126.925k |
| M16:D 5.6479p 13.6633u -12.4105a 3.0187p 1.0527u 126.925k M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u | M15:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M16:G 0.0 0.0 0.0 0.0 0.0 0.0 M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:D 25.004n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k <t< td=""><td>M15:S</td><td>-5.01p</td><td>11.5503a</td><td>-5.01p</td><td>-1.2525p</td><td>5.01p</td><td>28.0297m</td></t<> | M15:S | -5.01p | 11.5503a | -5.01p | -1.2525p | 5.01p | 28.0297m |
| M16:S -5.01p 11.5503a -5.01p -1.2525p 5.01p 28.0297m M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 <t< td=""><td>M16:D</td><td>5.6479p</td><td>13.6633u</td><td>-12.4105a</td><td>3.0187p</td><td>1.0527u</td><td>126.925k</td></t<> | M16:D | 5.6479p | 13.6633u | -12.4105a | 3.0187p | 1.0527u | 126.925k |
| M1:D 25.0044n 62.4869u 4.0212p 9.1713p 23.1711u 251.062k M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 | M16:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M1:G 0.0 0.0 0.0 0.0 0.0 0.0 M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg | M16:S | -5.01p | 11.5503a | -5.01p | -1.2525p | 5.01p | 28.0297m |
| M1:S -350.0a 11.152a -5.0133p -2.505p 5.01p 290.346m M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg | M1:D | 25.0044n | 62.4869u | 4.0212p | 9.1713p | 23.1711u | 251.062k |
| M2:D -25.005n -4.0554p -62.4869u -9.1687p 23.1708u 249.371k M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 | M1:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M2:G 0.0 0.0 0.0 0.0 0.0 0.0 M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M1:S | -350.0a | 11.152a | -5.0133p | -2.505p | 5.01p | 290.346m |
| M2:S 5.01p 5.0103p -11.2468a 2.505p 5.01p 290.346m M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M2:D | -25.005n | -4.0554p | -62.4869u | -9.1687p | 23.1708u | 249.371k |
| M3:D -25.005n -4.0554p -60.9502u -13.17p 23.1708u 237.836k M3:G 0.0 0.0 0.0 0.0 0.0 0.0 M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M2:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M3:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M2:S | 5.01p | 5.0103p | -11.2468a | 2.505p | 5.01p | 290.346m |
| M3:S 5.01p 5.0143p -11.2468a 2.505p 5.01p 37.2295m M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M3:D | -25.005n | -4.0554p | -60.9502u | -13.17p | 23.1708u | 237.836k |
| M4:D 25.0044n 60.9502u 4.2344p 13.1729p 23.1711u 240.631k M4:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M3:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M4:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M3:S | 5.01p | 5.0143p | -11.2468a | 2.505p | 5.01p | 37.2295m |
| M4:S -350.0a 11.7431a -5.0146p -2.505p 5.01p 37.2295m M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M4:D | 25.0044n | 60.9502u | 4.2344p | 13.1729p | 23.1711u | 240.631k |
| M5:D -24.7556n 6.8745a -48.7564u -7.7051p 12.1141u 8.2635Meg M5:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M4:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M5:G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M4:S | -350.0a | 11.7431a | -5.0146p | -2.505p | 5.01p | 37.2295m |
| M5:S 343.0a 5.0134p 9.9596a 1.2523p 5.0093p 49.97m | M5:D | -24.7556n | 6.8745a | -48.7564u | -7.7051p | 12.1141u | 8.2635Meg |
| | M5:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M6:D -24.758n 14.0238a -38.9087u -6.5313p 12.1148u 538.029k | M5:S | 343.0a | 5.0134p | 9.9596a | 1.2523p | 5.0093p | 49.97m |
| | M6:D | -24.758n | 14.0238a | -38.9087u | -6.5313p | 12.1148u | 538.029k |

| I | : | : | : | : | : | : |
|------|-----------|-----------|-----------|-----------|----------|-----------|
| M6:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M6:S | 5.0088p | 5.01p | -14.0238a | 1.2527p | 5.01p | 16.8012m |
| M7:D | -24.7556n | 3.7819a | -38.9129u | -7.0079p | 12.1141u | 575.051k |
| M7:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M7:S | 343.0a | 5.0097p | 7.0307a | 1.2523p | 5.0093p | 49.97m |
| M8:D | -24.758n | 312.103f | -49.5733u | -8.1757p | 12.1148u | 9.9803Meg |
| M8:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M8:S | 5.0088p | 5.01p | 8.0848a | 1.2527p | 5.01p | 16.8012m |
| M9:D | 321.964f | 48.756u | 7.7051a | 6.5385p | 2.3512u | 2.2609Meg |
| M9:G | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M9:S | -1.279f | -7.7051a | -5.01p | -1.2527p | 2.8925p | 23.0753m |
| V1:+ | -25.005n | -5.01p | -62.4869u | -9.1715p | 23.1713u | 249.371k |
| V2:+ | -25.005n | -5.01p | -60.9502u | -13.1735p | 23.1713u | 237.498k |
| V3:+ | -49.5161n | -10.0185p | -49.6137u | -14.7055p | 24.2288u | 8.2554Meg |
| V4:+ | -11.296p | -2.51p | -27.3265u | -6.2729p | 2.1054u | 141.452k |

Current Data (A)

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 |
| N06416 | 252.5823u | 5.0 | 50.1n | 2.5 | 5.0 | 19.3595G |
| N06420 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.0 |
| N06457 | 4.95 | 5.0 | 0.0 | 2.5 | 5.0 | 5.001G |
| N06769 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.0 |
| N06807 | 4.95 | 5.0 | 0.0 | 2.5 | 5.0 | 5.0G |
| N06863 | 252.5823u | 5.0 | 50.0999n | 2.5 | 5.0 | 37.198G |
| N07205 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.0 |
| N07233 | 4.9998 | 5.0 | 707.694u | 3.7502 | 5.0 | 594.43G |
| N07241 | 1.0004m | 5.0 | 200.371n | 2.5 | 4.0825 | 872.4G |
| N07357 | 74.1431u | 4.9993 | -750.072n | 1.2498 | 3.535 | 50.4257G |
| N07361 | 500.1841u | 4.9993 | -892.738n | 1.2498 | 2.8863 | 635.415G |

| N10360 | 4.95 | 5.0 | 0.0 | 2.5 | 5.0 | 5.0G |
|--------|------|-----|----------|--------|-----|----------|
| N10452 | 4.95 | 5.0 | 0.0 | 2.5 | 5.0 | 5.001G |
| N10798 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.0 |
| N10866 | 5.0 | 5.0 | 707.745u | 3.1252 | 5.0 | 526.868G |
| N10995 | 5.0 | 5.0 | 12.5492n | 1.25 | 5.0 | 8.8057G |

Voltage Data (V)

Power Data

| Device Name | Bias value | Max Power | Min Power | Average | RMS |
|--|------------|--------------|--------------|-----------|----------|
| A | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M1 | 6.3157p | 197.351u | -2.0146a | 22.5695p | 36.0949n |
| M10 | 24.0a | 107.15u | 72.674a | 7.8631p | 7.9678n |
| M11 | 24.7692p | 127.627u | 12.7781a | 9.8601p | 17.0534n |
| M12 | 24.7667p | 95.8485u | 12.768a | 10.4975p | 17.4208n |
| M13 | 1.0a | 10.2473u | -2.0201a | 7.9601p | 909.438p |
| M14 | 1.0a | 52.8393u | -9.2075a | 9.2324p | 7.3474n |
| M15 | 28.2397p | 57.4408u | -31.3124a | 7.2013p | 5.696n |
| M16 | 28.2397p | 57.4408u | -27.9795a | 6.9698p | 5.4908n |
| M2 | 125.0187n | 197.253u | -2.0318a | 23.2878p | 37.8045n |
| M3 | 125.0187n | 197.031u | -2.0318a | 32.1482p | 49.1441n |
| M4 | 6.3157p | 197.031u | -2.1214a | 33.7187p | 53.5386n |
| M5 | 6.1295p | 103.265u | 48.2143a | 8.1525p | 8.9062n |
| M6 | 123.7593n | 65.2288u | -63.2287a | 8.4682p | 9.0176n |
| M7 | 6.1295p | 104.426u | 26.5243a | 8.448p | 9.7491n |
| M8 | 123.7593n | 107.497u | 6.3815a | 12.3384p | 20.0288n |
| M9 | 298.0a | 129.878u | 67.3424a | 7.9p | 8.0357n |
| V1 | -125.025n | -25.05p | -312.435u | -45.8575p | 63.3893n |
| V2 | -125.025n | -25.0499p | -304.751u | -65.8676p | 86.5258n |
| V3 | -247.5802n | -50.0927p | -248.069u | -73.5274p | 59.1605n |
| V4 | -56.4798p | -12.55p | -136.633u | -31.3644p | 14.9685n |
| b //cadence/half adder-PSniceFiles/SO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

3/26/2021 Simulation report

| Ī | | : | : | : | : | 1 |
|-------|-----|-------|-----|-------|-----|---|
| | | | | | | |
| la 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1 D T | 0.0 | : 0.0 | 0.0 | . 0.0 | 0.0 | |
| ~ = | | | 1 | | | |

Power Data (W)