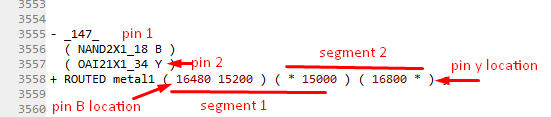
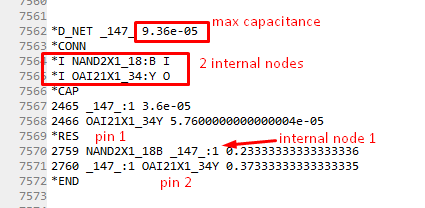
# Test case 2

## DEF Section:



## SPEF Section:



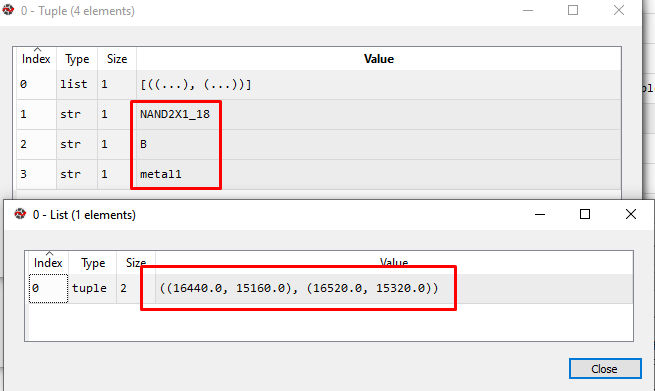
## Test DEF VS. SPEF

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | DEF | SPEF | Expected | Status |
| Net name | \_147\_ | \_147\_ | \_147\_ | ✔ |
| First input (internal or primary port) | Internal | I | \*I | ✔ |
| Second input (internal or primary port) | Internal | I | \*I | ✔ |
| Intermediate nodes | We had a single row consisting of 2 segments. Starting point at NAND, then an intermediate node then finally, at OAI21X1 | In the spef file, only 1 intermediary node was used: \_147\_:1 to connect both pins | Only 1 net internal node should be created as an intermediate point between NAND2X1\_18:B and OAI21X1\_34:Y | ✔ |
|  |  |  |  |  |

## Verify parsing:

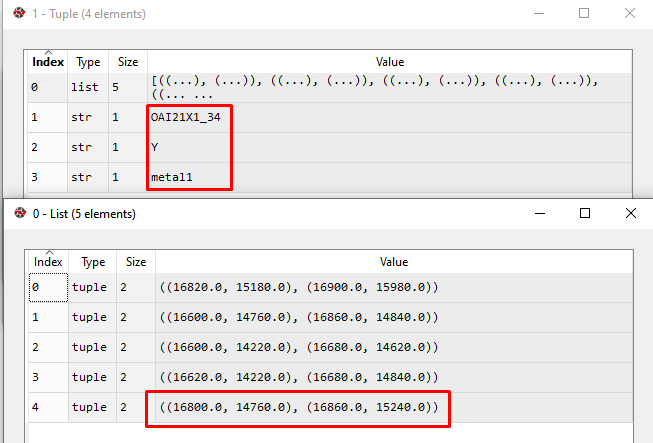
### Check first pin connectivity: pin C in cell NAND2X1\_18

Required pin coordinate (as per DEF file): (16480, 15200) (‏✔)



### Check second pin connectivity: pin Y in cell OAI21X1\_34

Required pin coordinate (as per DEF file): (16800, 15000) (‏✔)



## The Calculation of the Parasitics

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | From : To | Length (100 db units) | Metal\_width | RPerSQ | Expected R | Obtained R | CPERSQDIST | Expected C | Obtained C | Status |
| Segment 1 | NAND2X1\_18:B to \_147\_:1 | 2 | 1\_0.6 | 0.07 | 7/30 | 0.233 | 3e-05 | 3.6e-5 | 3.6e-5 | ✔ |
| Segment 2 | \_147\_:1 to OAI21X1\_34:Y | 3.2 | 1 \_0.6 | 0.07 | 28/75 | 0.3733 | 3e-05 | 5.76e-5 | 5.76e-5 | ✔ |

This purpose of this test was to verify that the extraction of the parasitic information from the tech lef file was done correctly.