# GDS Import Wizard V3 Manual

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#### ANSYS workflow for 2.5D/3D SI Interpower Simulation

#### **ANSYS AEDT**

#### Option1:

- ✓ TSMC IRCX
- ✓ GDS File

#### Option2:

- ✓ Tech File
- ✓ Layer Map
- ✓ GDS File



#### **GDSImportWizard**

- ✓ Net name extract
- ✓ Stackup
- ✓ Layer thickness
- ✓ Material properties
- ✓ Via Groups
- ✓ Snap Primitives
- ✓ More...



#### **HFSS 3D Layout**

- ✓ S-parameter Extraction
- ✓ Crosstalk
- ✓ SSN
- ✓ Eye opening
- ✓ PDN
- ✓ Thermal-EM Co-simulation

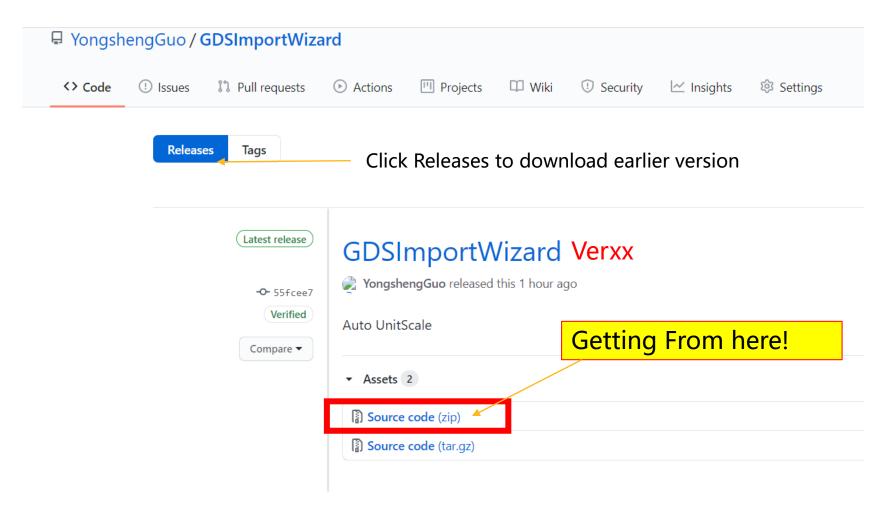
Step 2

Step 3

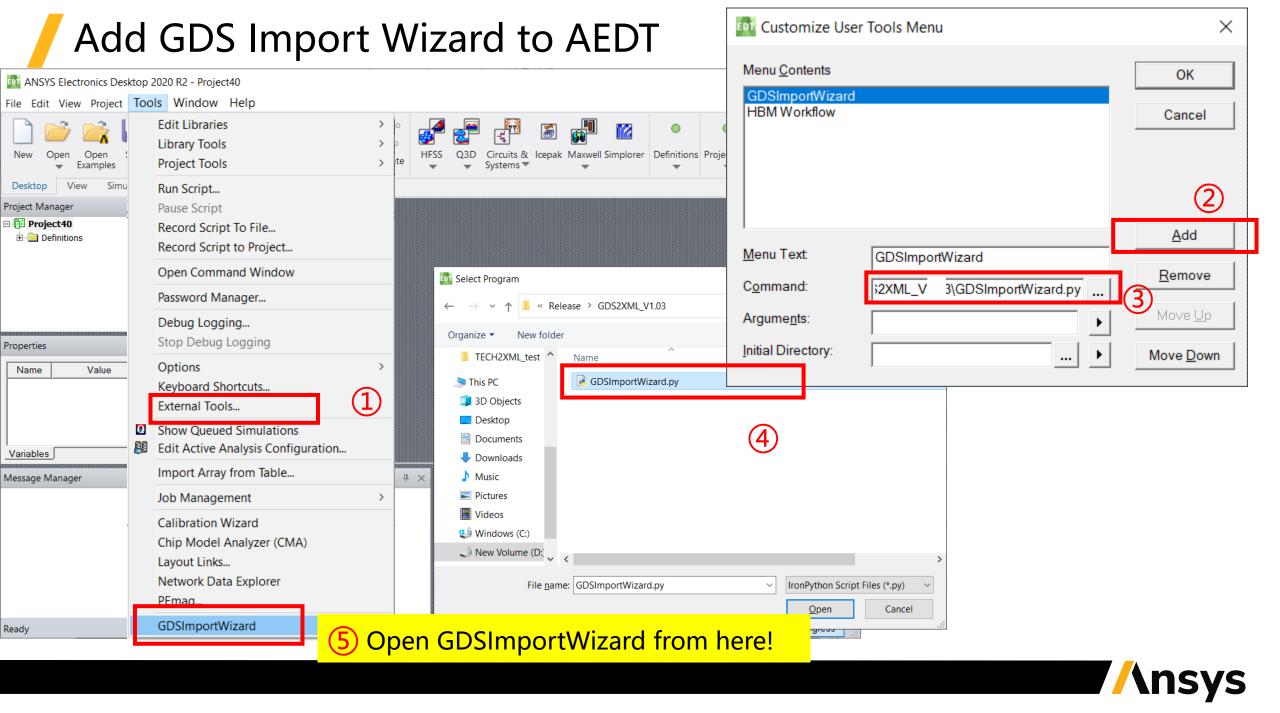


## Getting the latest GDSImportWizard Tool

https://github.com/YongshengGuo/GDSImportWizard/releases/latest







## New Proficiency Mode modes in V3.0



| ৣ GDSII Import Wizard V3.0   | - D X                       |   | <b>■</b> GDSII Import Wizard V3.0  | _           |        | ×    |
|--|-----------------------------|---|--|-------------|--------|------|
| GDS Import   |                             |   | Step1: TechnologyFile Input Step2: Extract Netlist Step3:Stackup XML Step4: Generate EBI | D           |        |      |
| ● TMSC IRCX Swtich to Wizard M   | Mode CheckUpdate            |   | Swtich to Proficie   | ncy Mode Cł | neckUp | date |
| TSMCIRCX   | Browse                      |   | ● TMSC IRCX  |             |        |      |
| GDSII  | Browse                      |   | TSMCIRCX   | Browse      |        |      |
| SimplifyDielectric MergeOnLayer   CreateViaGroups Legacy  MergeMethod Weighted Average   MergeTSVLayer UseDe | /Xml(Laminate) faultDF 0.02 |   |  |             |        |      |
| Mode1: Proficiency Mode  | <b>)</b>                    |   | OLayerMap+Tec Mode2: Wizard Mode   |             |        |      |
| AEDT Installed Dir C:\Program Files\AnsysEM\AnsysEM20.2\Win64\   | Browse                      |   | LayerMap   | Browse      |        |      |
| EBD File   | Browse                      |   | TechFile   | Browse      |        |      |
| ✓ Import to AEDT ✓ Auto Generate Component ✓ Add TSV Insulator Rin   | ng le-6                     |   |  |             |        |      |
| Generate   | Close                       |   | Next   | Cancel      |        |      |
|  |                             | 4 |  |             |        |      |

Note: Proficiency mode has the same options as Wizard mode. Proficiency mode provides quick import way for users who are familiar with the workflow.

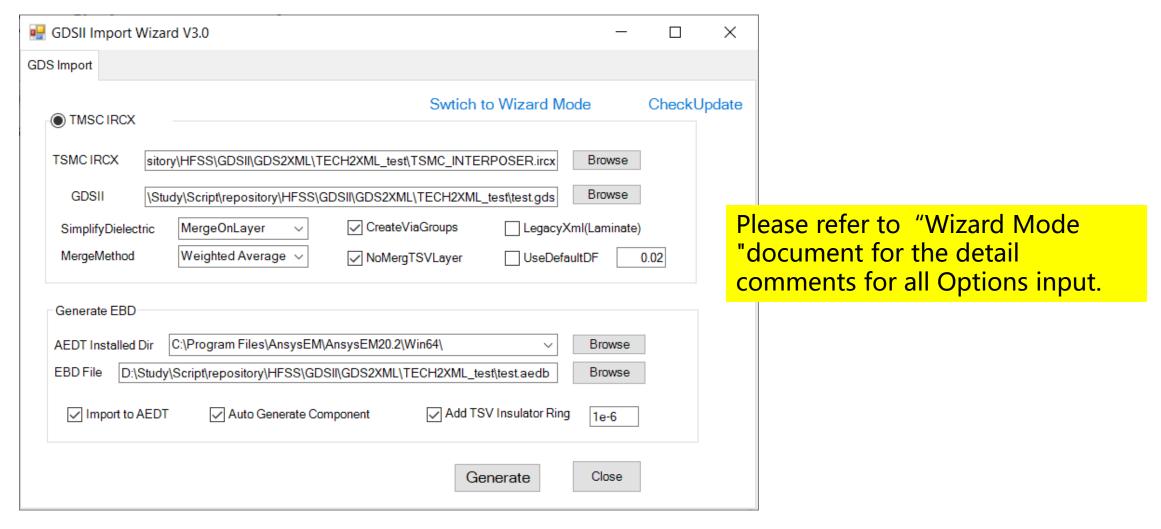




# Running in Proficiency Mode



## **Proficiency Mode**



Note: Proficiency mode has the same options as Wizard mode. Proficiency mode provides quick import way for users who are familiar with the workflow.

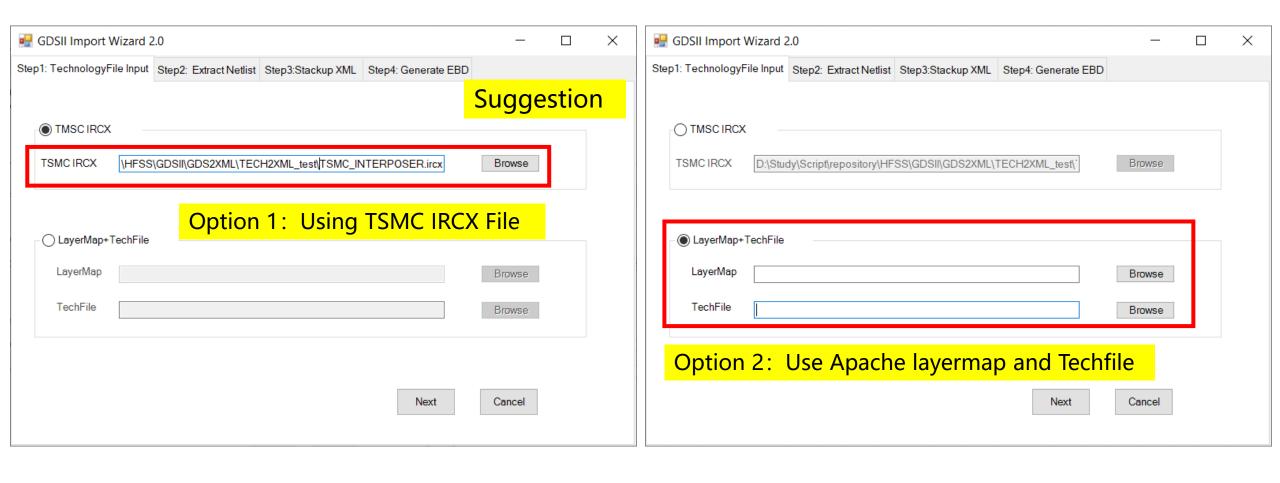




# Running in Wizard Mode



## Step1: Define Technology File





## / What about IRCX

IRCX is an EDA data format for interconnect modeling with TSMC's 65- and 40-nm process technologies.

#### Include:

- ✓ Layer Mapping
- ✓ Layer Thickness
- ✓ Layer Material property

#### Application:

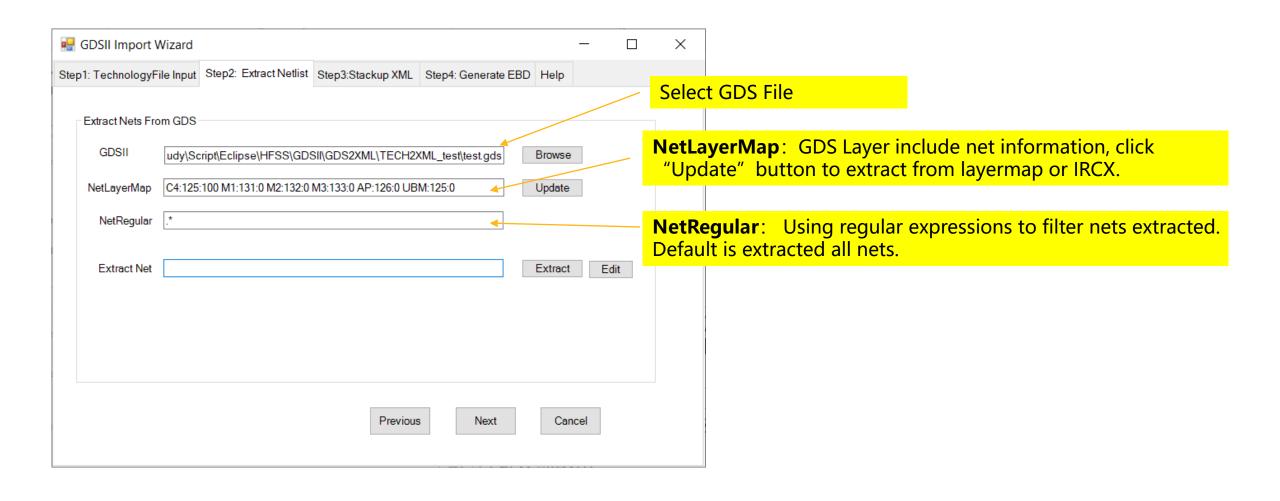
- ✓ RC parasitic extraction,
- ✓ electromigration analysis,
- √ power integrity analysis, and
- ✓ electromagnetic simulation

| 97  | ESS:V) |
|---|--------|
| 99 FIELD  | ESS:V) |
| 99 FIELD  |        |
| 101   ubump   |        |
| 102         UF1         PASS4         107.640000         35.000000           103         PASS4         PASS3b         107.040000         0.600000           104         PASS3b         PASS3a         106.640000         0.400000           105         PASS3a         PASS2         105.190000         1.450000           106         metal4         PASS2         105.190000         1.450000           107         PASS2         PASS1         104.490000         0.70000           108         PASS1         IMD3c         104.415000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.690000         0.725000           111         metal3         IMD3a         103.640000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2g         102.970000         0.050000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d                     |        |
| 103         PASS4         PASS3b         107.040000         0.600000           104         PASS3b         PASS3a         106.640000         0.400000           105         PASS3a         PASS2         105.190000         1.450000           106         metal4         PASS2         105.190000         1.450000           107         PASS2         PASS1         104.490000         0.700000           108         PASS1         IMD3c         104.490000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.640000         0.050000           111         metal3         IMD3a         103.020000         0.620000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2g         102.970000         0.050000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c                  |        |
| 104         PASS3b         PASS3a         106.640000         0.400000           105         PASS3a         PASS2         105.190000         1.450000           106         metal4         PASS2         105.190000         1.450000           107         PASS2         PASS1         104.490000         0.700000           108         PASS1         IMD3c         104.415000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.690000         0.050000           111         metal3         IMD3a         103.565000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2g         102.97000         0.050000           114         IMD2g         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b                    |        |
| 105         PASS3a         PASS2         105.190000         1.450000           106         metal4         PASS2         105.190000         1.450000           107         PASS2         PASS1         104.490000         0.700000           108         PASS1         IMD3c         104.415000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.640000         0.050000           111         metal3         IMD3a         103.565000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2g         103.020000         0.50000           114         IMD2g         IMD2e         102.245000         0.725000           115         IMD2e         IMD2e         102.245000         0.750000           116         metal2         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b                     |        |
| 106         metal4         PASS2         105.190000         1.450000           107         PASS2         PASS1         104.490000         0.700000           108         PASS1         IMD3c         104.415000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.640000         0.050000           111         metal3         IMD3a         103.565000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2f         102.970000         0.050000           114         IMD2g         IMD2e         102.245000         0.725000           115         IMD2e         IMD2e         102.195000         0.050000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.195000         0.050000           117         IMD2d         IMD2c         101.873000         0.380000           118         IMD2c         IMD2b         101.793000         0.080000           120         IMD2b         IMD1c                      |        |
| 107         PASS2         PASS1         104.490000         0.700000           108         PASS1         IMD3c         104.415000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.640000         0.50000           111         metal3         IMD3a         103.02000         0.620000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2g         102.970000         0.050000           114         IMD2g         IMD2e         102.195000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           120         IMD2b         IMD1793000         0.080000         110.0793000         0.018000           120         IMD2a         IMD1c         101.575000         0.200000         122           122                  |        |
| 108         PASS1         IMD3c         104.415000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.640000         0.050000           111         metal3         IMD3a         103.565000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2f         102.970000         0.50000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD1c         101.575000         0.200000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c <td< th=""><th></th></td<> |        |
| 109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.640000         0.050000           111         metal3         IMD3a         103.565000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2f         102.970000         0.050000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.050000           123         IMD1c         IMD1a <t< th=""><th></th></t<>  |        |
| 110         IMD3b         IMD3a         103.640000         0.050000           111         metal3         IMD3a         103.565000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2f         102.970000         0.050000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.050000           123         IMD1c         IMD1a         100.800000         0.725000           125         IMD1a         ILD                             |        |
| 111         metal3         IMD3a         103.565000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2f         102.970000         0.550000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           120         IMD2b         101.793000         0.080000           120         IMD2b         IMD1a         101.575000         0.200000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1b         101.575000         0.200000           123         IMD1c         IMD1a         100.800000         0.725000           125         IMD1a         IMD1a         100.750000         0.050000   |        |
| 112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2f         102.970000         0.050000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.550000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           120         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.050000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.750000         0.050000  |        |
| 113   IMD2g   IMD2f   102.970000   0.050000   114   IMD2f   IMD2e   102.245000   0.725000   115   IMD2e   IMD2d   102.195000   0.050000   116   metal2   IMD2d   102.120000   0.850000   117   IMD2d   IMD2c   101.873000   0.322000   118   IMD2c   IMD2b   101.793000   0.080000   119   ctm   IMD2b   101.793000   0.080000   120   IMD2b   IMD2a   101.775000   0.018000   121   IMD2a   IMD1c   101.575000   0.200000   122   cbm   IMD1c   101.575000   0.200000   123   IMD1c   IMD1b   101.525000   0.050000   124   IMD1b   IMD1a   100.800000   0.725000   125   IMD1a   ILD   100.750000   0.050000  |        |
| 114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.050000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000  |        |
| 115         IMD2e         IMD2d         102.195000         0.050000           116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.200000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000  |        |
| 116         metal2         IMD2d         102.120000         0.850000           117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.200000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000  |        |
| 117         IMD2d         IMD2c         101.873000         0.322000           118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.200000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000   |        |
| 118         IMD2c         IMD2b         101.793000         0.080000           119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.200000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000   |        |
| 119         ctm         IMD2b         101.793000         0.080000           120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.200000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000   |        |
| 120         IMD2b         IMD2a         101.775000         0.018000           121         IMD2a         IMD1c         101.575000         0.200000           122         cbm         IMD1c         101.575000         0.200000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000   |        |
| 121     IMD2a     IMD1c     101.575000     0.200000       122     cbm     IMD1c     101.575000     0.200000       123     IMD1c     IMD1b     101.525000     0.050000       124     IMD1b     IMD1a     100.800000     0.725000       125     IMD1a     ILD     100.750000     0.050000   |        |
| 122         cbm         IMD1c         101.575000         0.200000           123         IMD1c         IMD1b         101.525000         0.050000           124         IMD1b         IMD1a         100.800000         0.725000           125         IMD1a         ILD         100.750000         0.050000   |        |
| 123     IMD1c     IMD1b     101.525000     0.050000       124     IMD1b     IMD1a     100.800000     0.725000       125     IMD1a     ILD     100.750000     0.050000   |        |
| 124 IMD1b IMD1a 100.800000 0.725000<br>125 IMD1a ILD 100.750000 0.050000  |        |
| 125 IMD1a ILD 100.750000 0.050000   |        |
|   |        |
| 126 metal1 TLD 100.675000 0.850000  |        |
|   |        |
| 127 ILD substrate 100.000000 0.750000   |        |
| 128 substrate PASSB1 0.000000 100.000000  |        |
| 129 PASSB1 PASSB2b -0.800000 0.800000   |        |
| 130 mb1 PASSB2b -0.801000 0.001000  |        |
| 131 PASSB2b PASSB2a -2.800000 2.000000  |        |
| 132 PASSB2a underFill_C -3.200000 0.400000  |        |
| 133 underFill_C N/A -3.201000 0.001000  |        |
| 134 ubmb N/A -3.201000 0.001000   |        |
| 135   |        |

| [LAYER_MAPP] |          |       |                |      |                               |
|--------------|----------|-------|----------------|------|-------------------------------|
| #substate is | revers   | ed-to | one NWELI      |      |                               |
| #via4 is (u) |          |       |                |      |                               |
| #ubump_top_p | pin is u | bump_ | _pin           |      |                               |
| #ubmb_top_p  |          |       | in             |      |                               |
| #RC GDS      |          |       | -              |      |                               |
| ubump        | 170;0    | ubur  | np             | UBM; | drawing                       |
| metal4       | 74;      | 0     | metal4         |      | AP;drawing                    |
| DUM4         | 74;      | 1     | DUM4           |      | AP; dummy                     |
| metal3       | 33;      | 40    | metal3         |      | M3;drawing                    |
| DUM3         | 33;      | 41    | DUM3           |      | M3;dummy                      |
| metal2       | 32;      | 40    | metal2         |      | M2;drawing                    |
| DUM2         | 32.      | 41    | DITM2          |      | M2;dummy                      |
| metal1       | 31;      | 40    | metal1<br>DUM1 |      | M1;drawing                    |
| DUM1         | 31;      | 41    | DUM1           |      | M1;dummy                      |
| mb1 31;1     | 100 MB1  |       | M1;BSL         |      |                               |
| ubmb         | 170;100  | UBMI  | 3              | UBM; | BSL                           |
| via4         | 86;0     | via   | 4              | CB2; | drawing                       |
| via3<br>via2 | 85;0     | via:  | 3              |      | RV;drawing                    |
| via2         | 52;      | 40    | via2           |      | VIA2;drawing                  |
| via1         | 51;      | 40    | via1           |      | VIA1;drawing                  |
| tsv 251;     | :0 tsv   |       | TSV; draw      | ving |                               |
| tsv_3t       | 251;3    | tsv   | _3t            | TSV  | dummy1                        |
| pmb 5;10     |          |       |                |      |                               |
|              |          |       |                |      | UBM;pin                       |
| metal4_pin   |          |       |                |      |                               |
| metal3_pin   |          |       |                |      |                               |
| metal2_pin   | 132      | ; 0   | metal2_p       | oin  | M2;pin                        |
| metal1_pin   | 131      | ; 0   | metal1_p       | oin  | M1;pin<br>M1;BSP<br>UBM;test0 |
| mb1_pin      | 131      | ;100  | MB1_pin        |      | M1;BSP                        |
| ubmb_pin     | 125      | ;100  | UBMB_pir       | 1.   | UBM; test0                    |
| ctm 77;      | ) ctm    |       | CTM; drav      | ving |                               |
| cbm 88;      |          |       |                |      |                               |
| ctm_via      | 51;40    | ctm   | _via           |      | VIA1;drawing<br>VIA1;drawing  |
| cbm_v1a      | 51;40    | cbm   | _via           |      | VIA1;drawing                  |

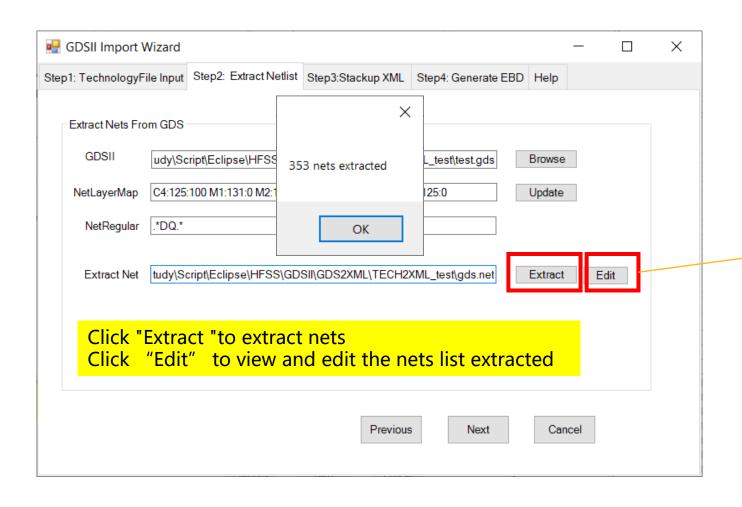


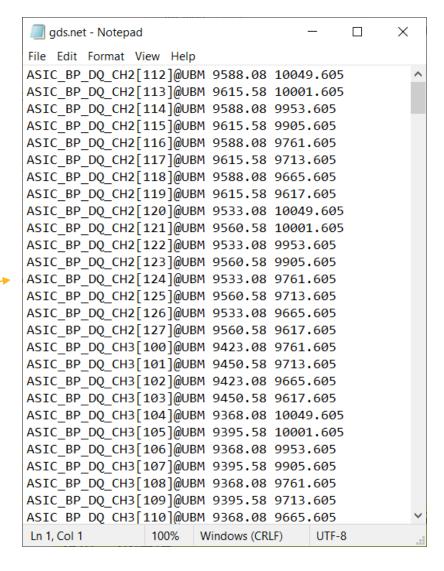
#### Step2: Extract Nets information from GDSII



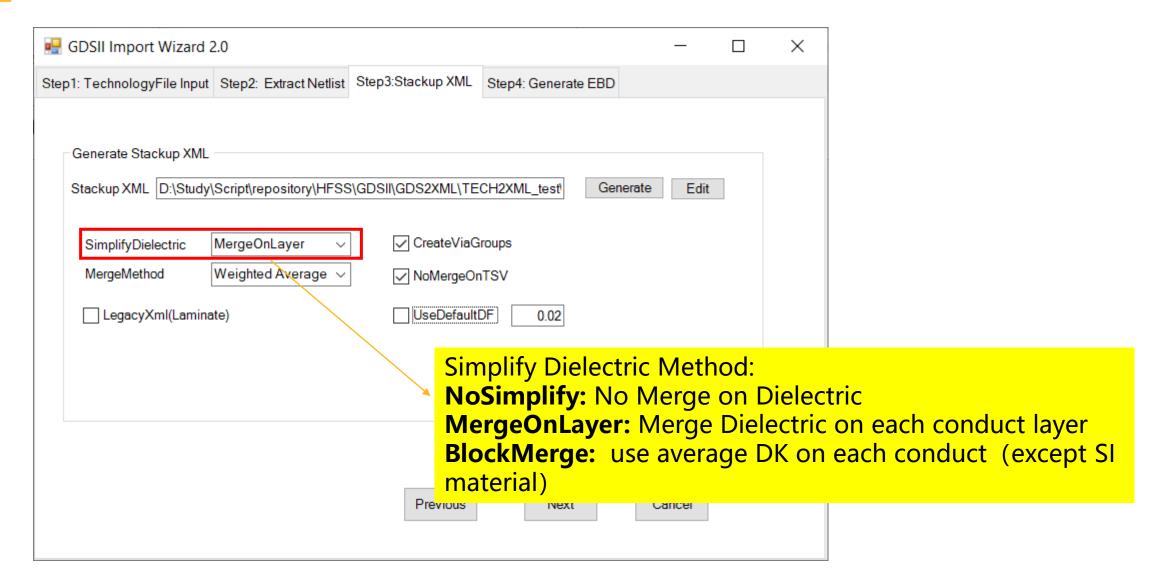


#### Step2: Extract Nets information from GDSII





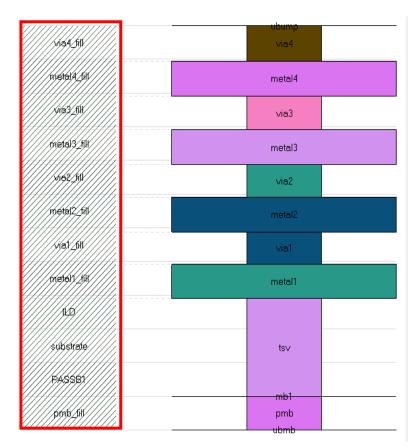


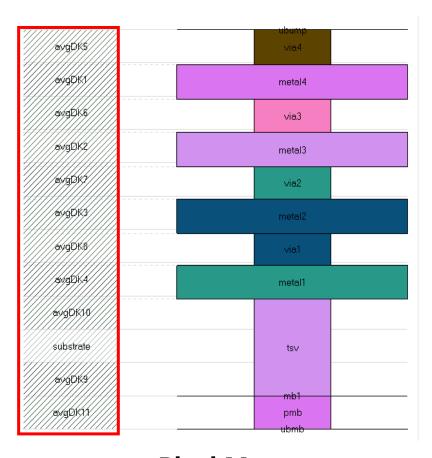




Simplify Dielectric Method compare





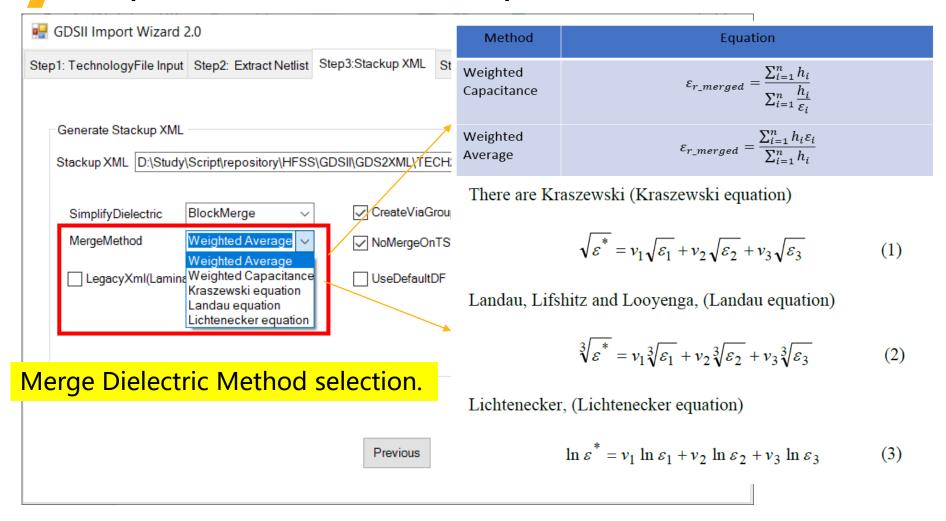


NoSimplify

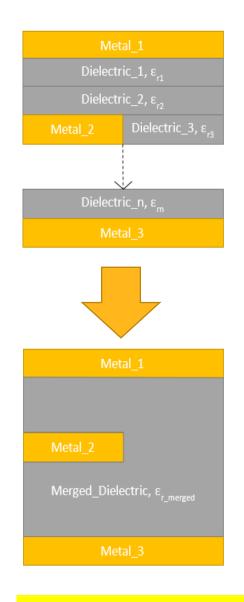
MergeOnLayer

BlockMerge



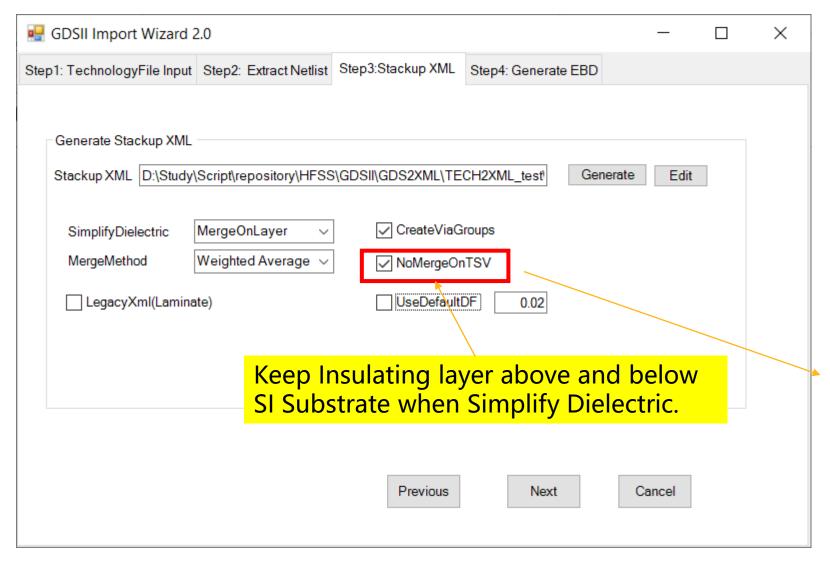


Note: Merge Dielectric also can be done in 3d Layout stackup editor.



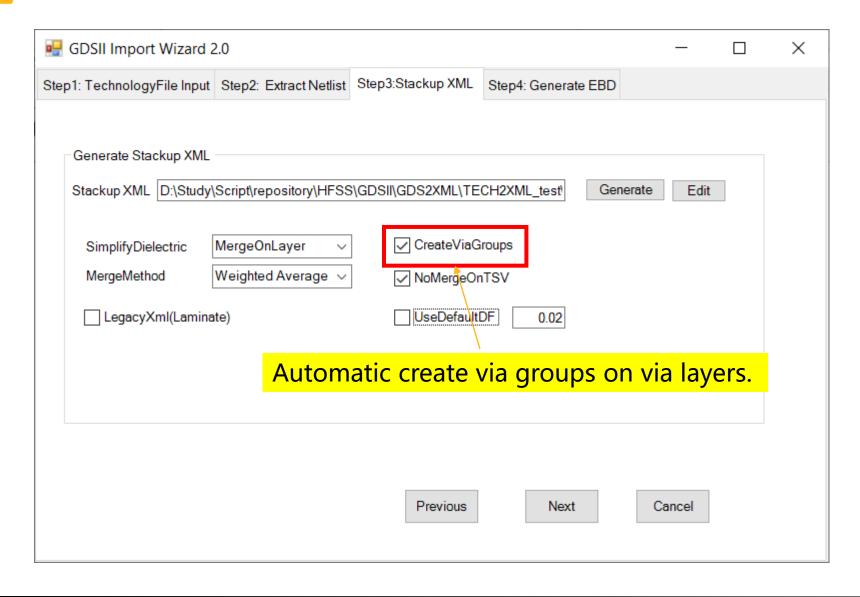
Merge Dielectric

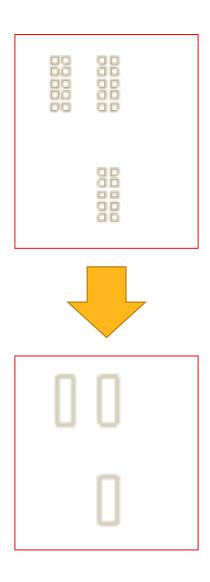




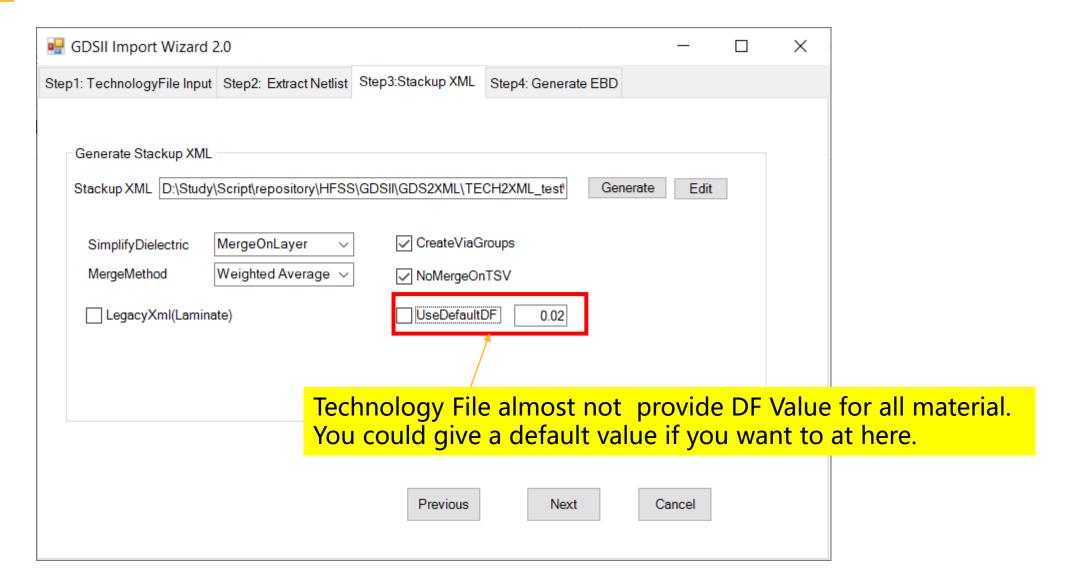




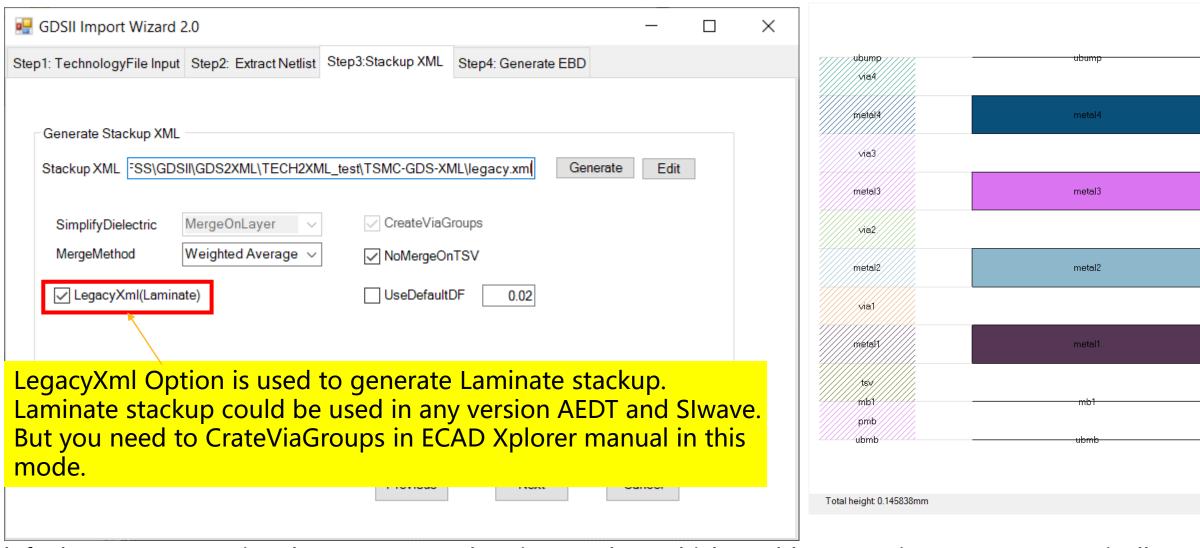




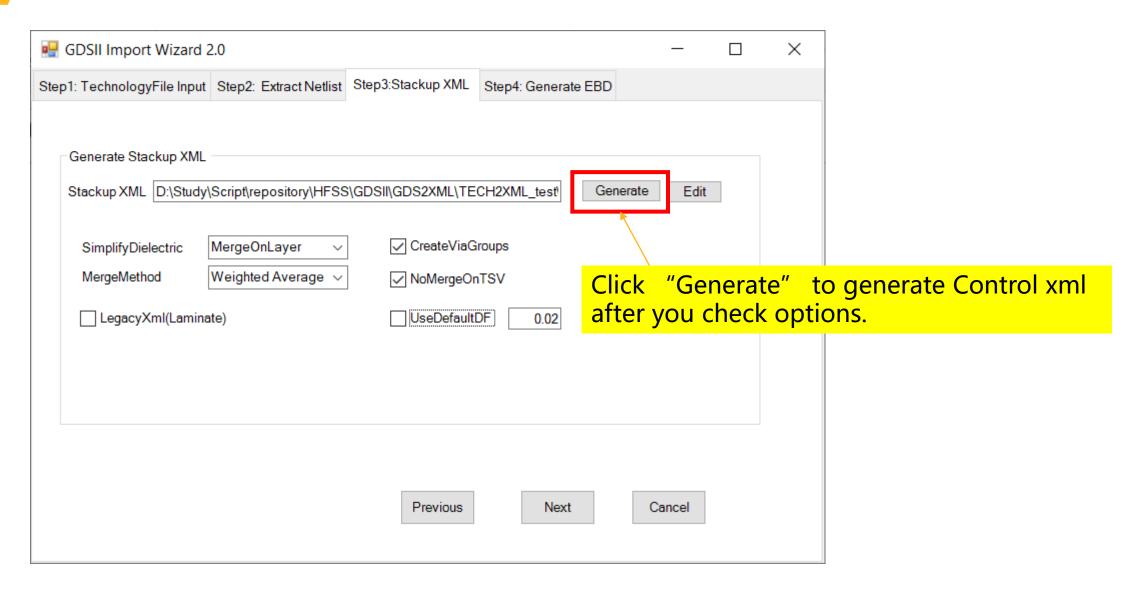




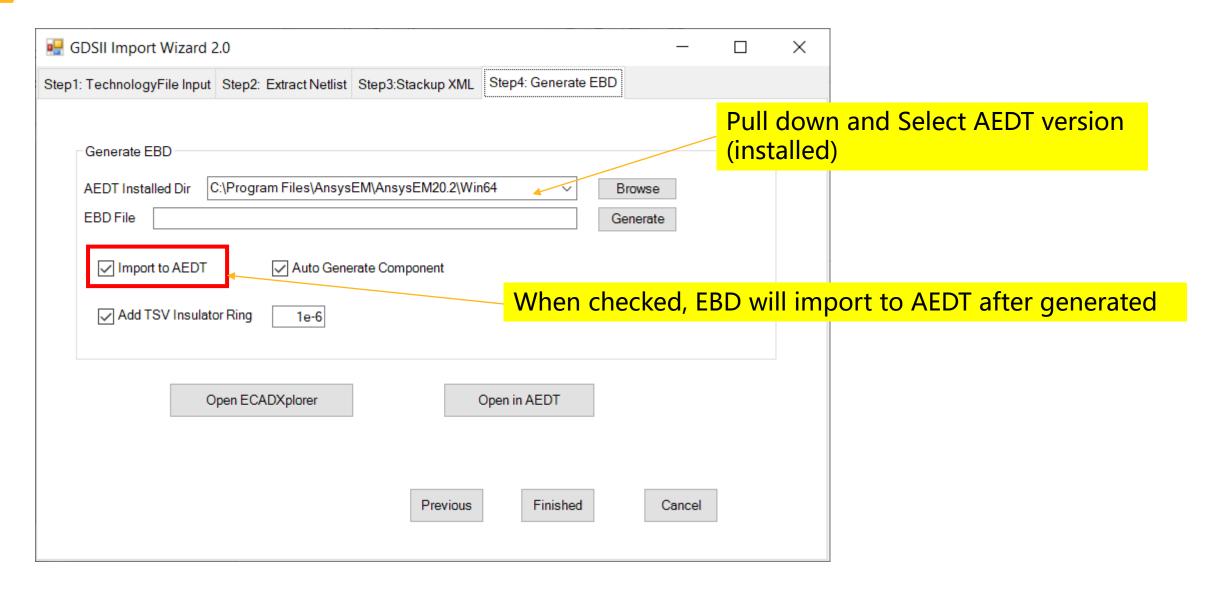




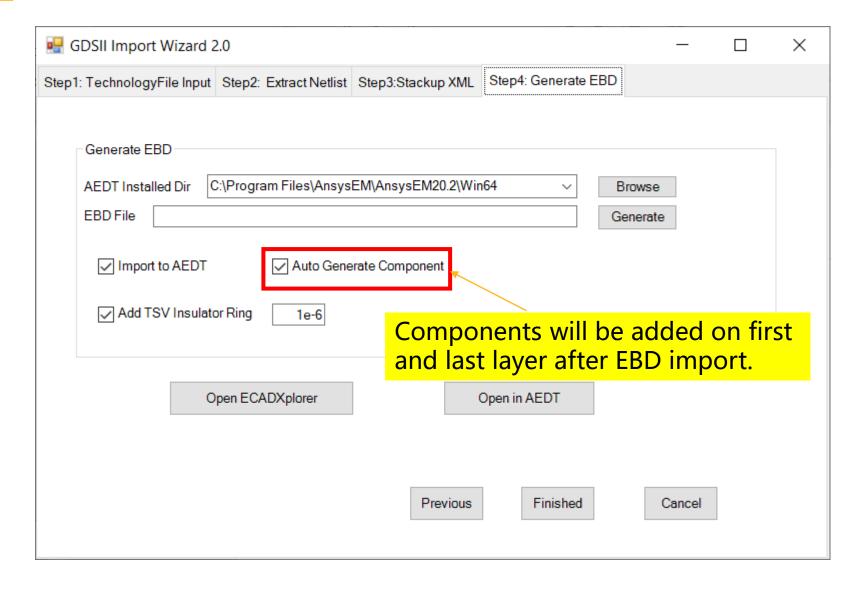
By default, GDSImportWizard generate Overlapping stackup which could create ViaGroups automatically.





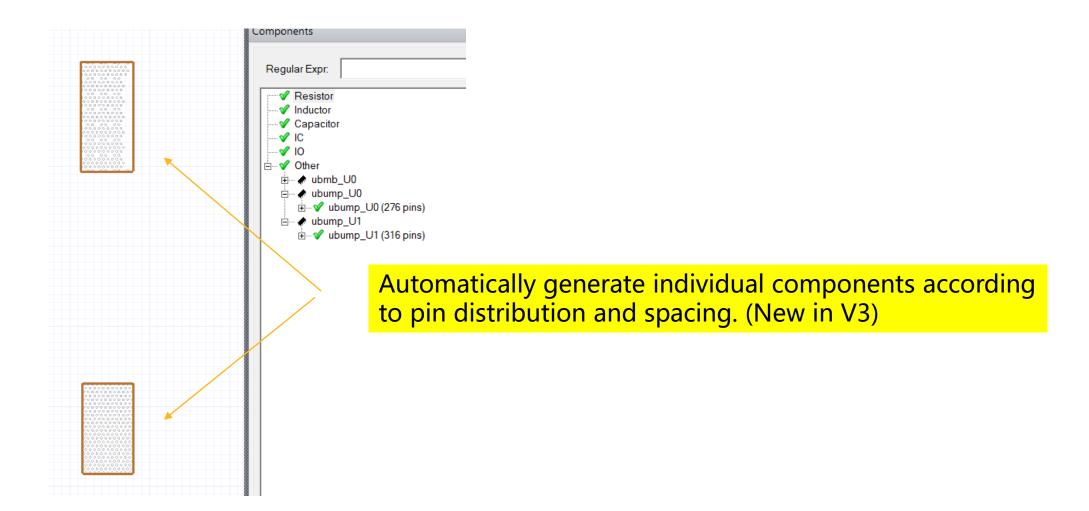






| Components   |  |
|--|--|
| Regular Expr:  |  |
| Resistor  Inductor  Capacitor  IC                                    |  |
| □ ✓ Other □ ✓ ubmb □ ✓ ubmb (84 pins) □ ✓ ubump □ ✓ ubump (270 pins) |  |

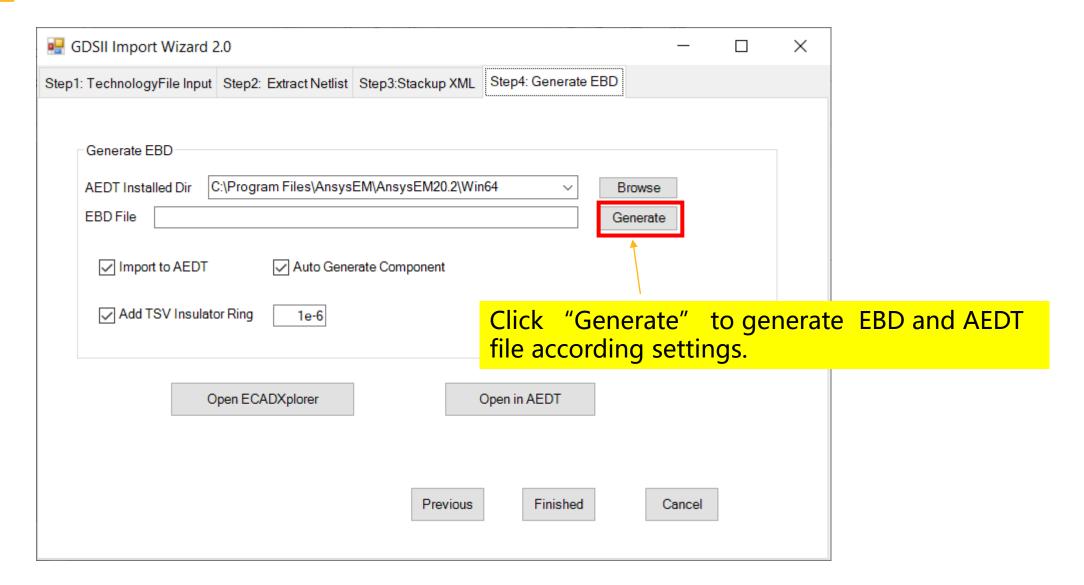






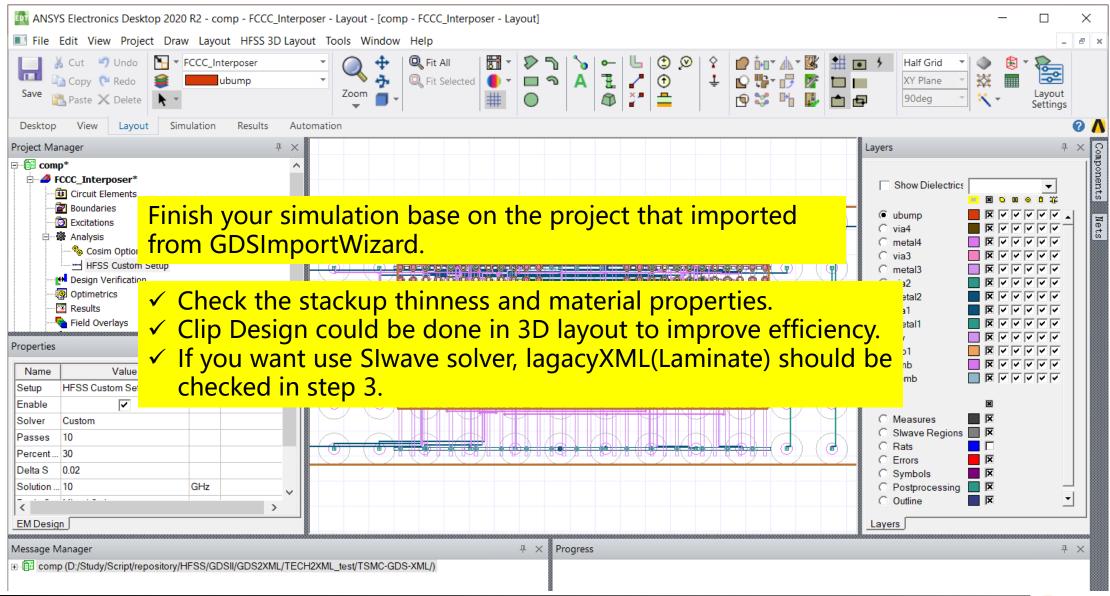
#### Step4: Generate EBD **µBumps** AI RDL Metal 3 ■ GDSII Import Wizard 2.0 SiO<sub>2</sub> Step4: Generate EBD Step1: TechnologyFile Input | Step2: Extract Netlist | Step3:Stackup XML Metal 2 Generate EBD Metal 1 C:\Program Files\AnsysEM\AnsysEM20.2\Win64 AEDT Installed Dir Browse EBD File **TSV** Generate ✓ Import to AEDT Auto Generate Component Add TSV Insulator Ring 1e-6 TSV Insulator Ring will be added in TSV layer after EBD imported. Ring thickness should be set a purpose value. Previous Finished Cancel



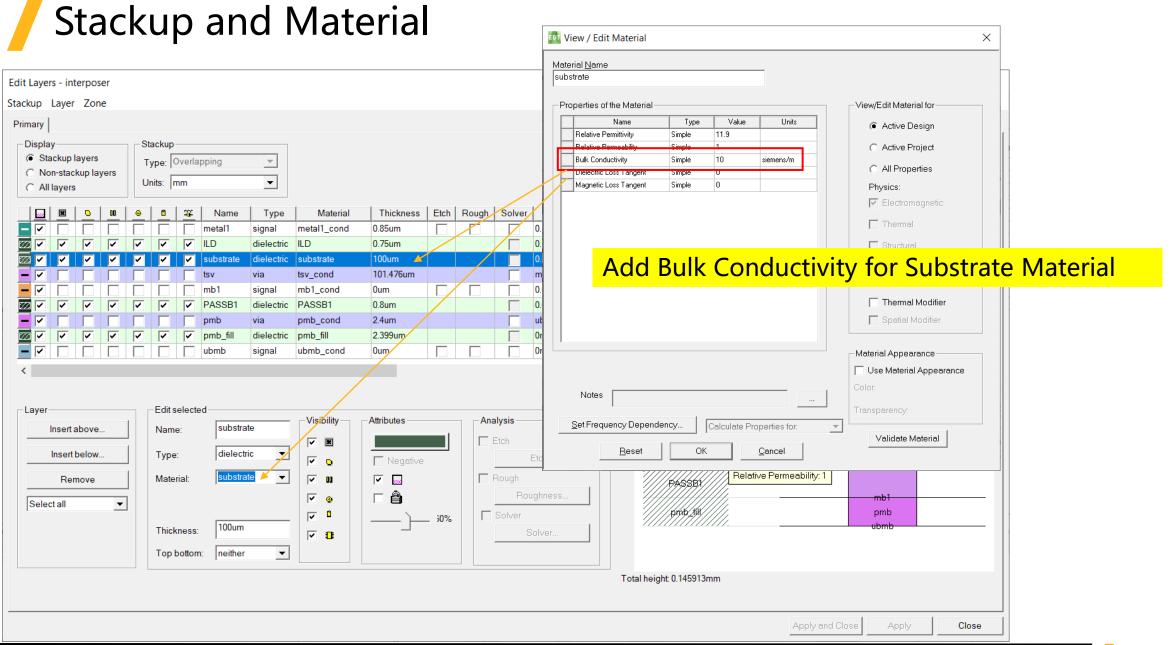




#### Imported Project

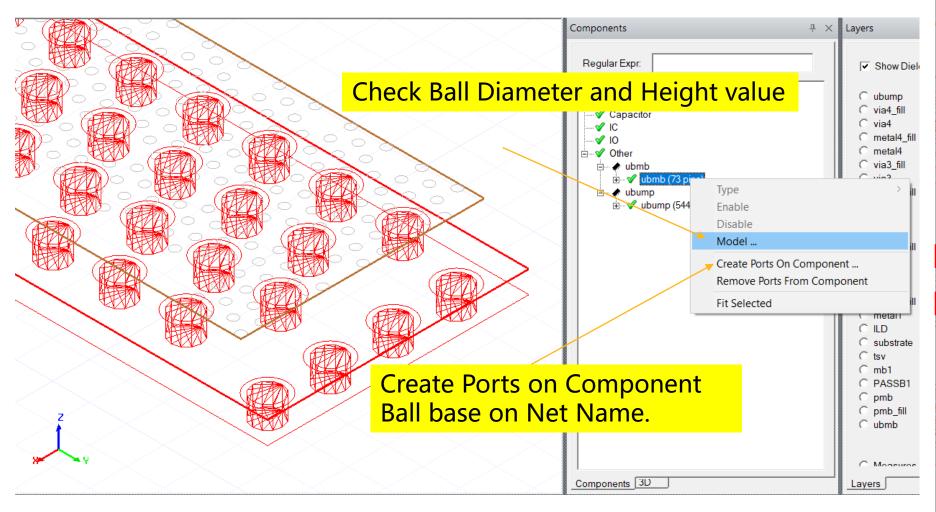








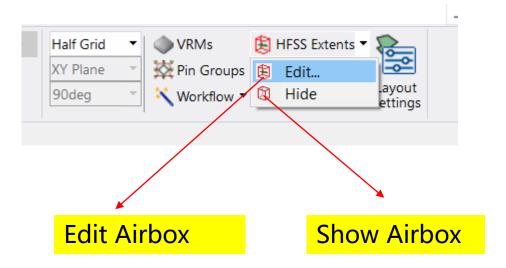
## Component solder ball and port

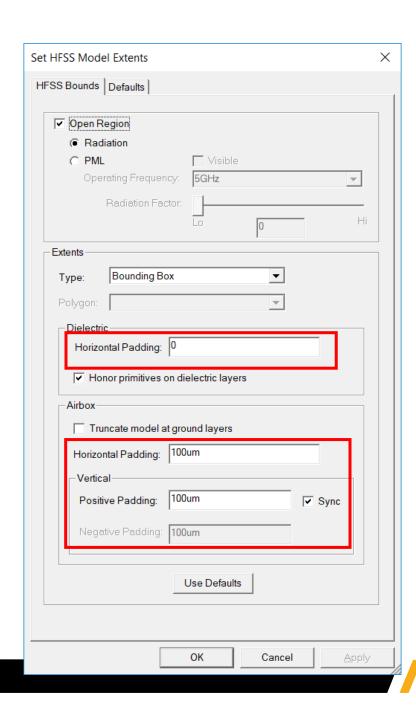


| Component Model X   |               |  |  |
|---------------------|---------------|--|--|
| Component Info      |               |  |  |
| Part Name:          | ubmb          |  |  |
| Part Type:          | Other         |  |  |
| Ref Des:            | ubmb          |  |  |
| No. Pins:           | 73            |  |  |
| - Model Interface - |               |  |  |
| Interface:          | Manual 🔻      |  |  |
| Solder Ball Propert | ies           |  |  |
| Shape:              | Cylinder ▼    |  |  |
| Diameter:           | 80um          |  |  |
| Mid Diameter:       | 0mm           |  |  |
| Height:             | 60um          |  |  |
| Material:           | solder        |  |  |
| Port Properties     | ,             |  |  |
| Reference Offset:   | 0             |  |  |
| Reference Size:     | <b>✓</b> Auto |  |  |
|                     | X: 0          |  |  |
|                     | Y: 0          |  |  |
|                     | OK Cancel     |  |  |

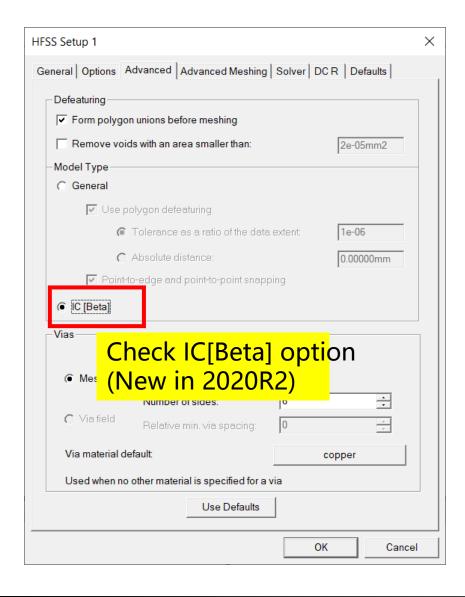


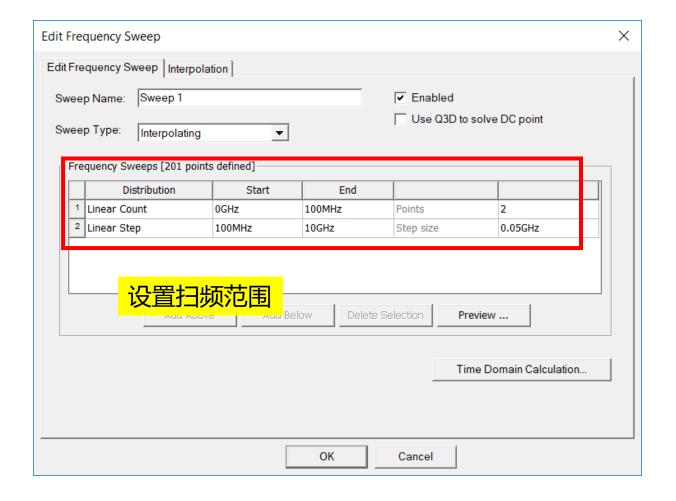
## Set HFSS Model Extents(Airbox)





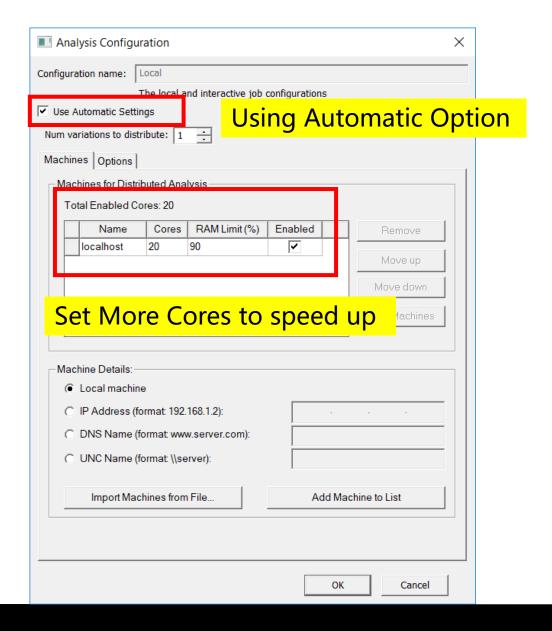
## **HFSS Setup**

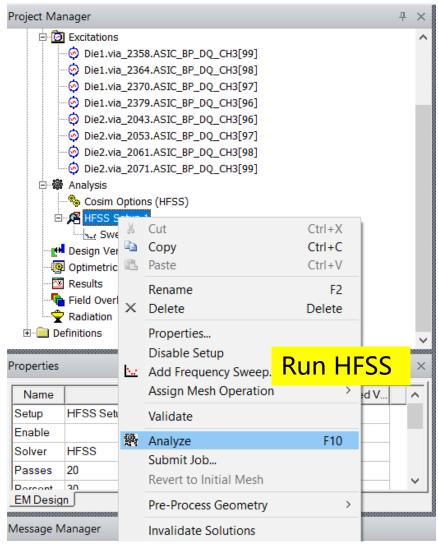






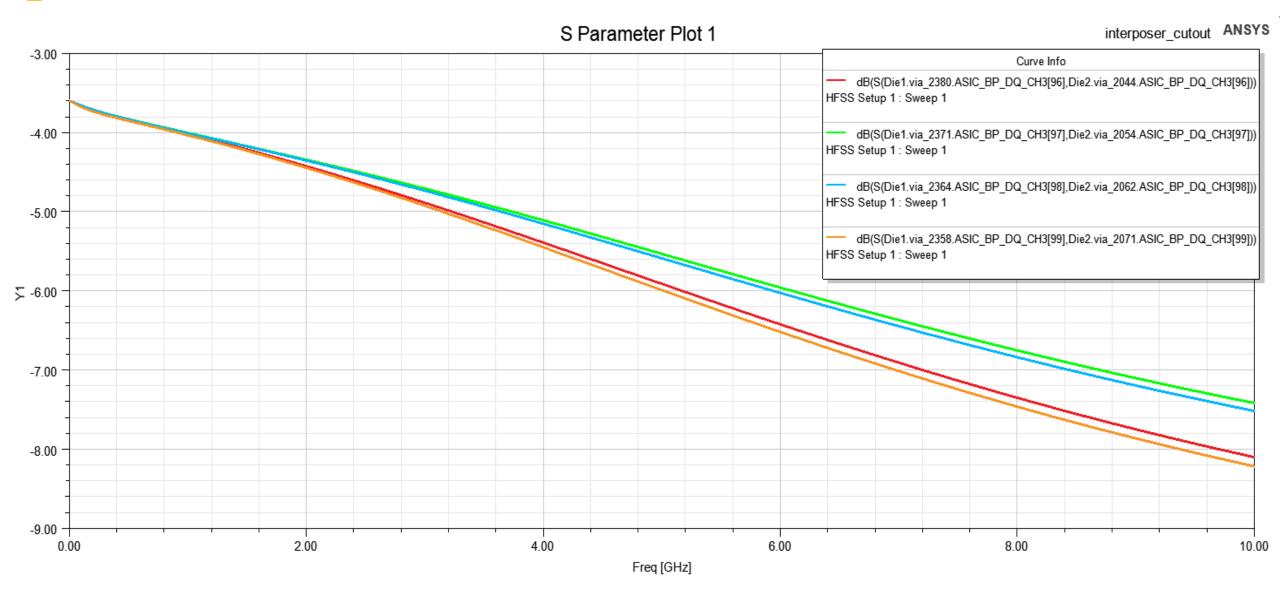
#### **Run Simulation**













# Running in Batch Mode



#### Running in batch mode - Windows



- set aedtInstallPath=C:\Program Files\AnsysEM\AnsysEM20.2\Win64
- set gdsPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test2.gds
- set ircxPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\TSMC\_INTERPOSER.ircx
- set path=%aedtInstallPath%\common\IronPython;%path%
- ipy64 GDSImportWizard.py -batch

- Optional Setting
- set netlistPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.net
- set xmlPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.xml
- set ebdPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.ebd



#### Return

## Running in batch mode - Linux

- export aedtInstallPath='/home/ansys/app/AnsysEM20.1/Linux64'
- export gdsPath=/home/ansys/yguo/test/test.gds
- export ircxPath=/home/ansys/yguo/test/TSMC\_INTERPOSER.ircx
- export ipy64="\$aedtInstallPath/common/mono/Linux64/bin/mono \$aedtInstallPath/common/IronPython/ipy64.exe"
- \$ipy64 GDSImportWizard.py -batch
- Optional Setting
- export netlistPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.net
- export xmlPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.xml
- export ebdPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.ebd



# **Ansys**