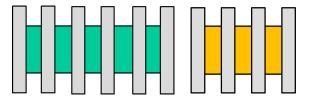
SELF_HEATING_EFFECT_EXTRACTION

LVSRCE 2020/09/04

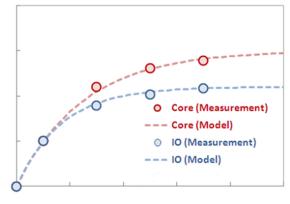
SELF_HEATING_EFFECT_EXTRACTION

- Turn on "SELF_HEATING_EFFECT_EXTRACTION" switch will enable curity c TSMC Secret "odind", "gpocrdx" and "gpocrdy" instance parameter extraction for post-layout simulation to reflect SHE multi-finger effect.
 - odind: index for each OD
 - gpocrdx, gpocrdy: x, y coordinate of each device center.
 - Example: pre-layout simulation



x0 4 3 2 1 nch_A l=L1 w=W1 nf=4 x1 8 7 6 5 nch_A l=L1 w=W1 nf=2

SHE multi-finger effect



Poly finger number

post-layout simulation

x0 4 3 2 1 nch_A l=L1 w=W1 nf=1 odind=1 gpocrdx=1.06075e-05 gpocrdy=3.816e-05

x1 4 3 2 1 nch_A l=L1 w=W1 nf=1 odind=1 gpocrdx= 1.06735e-05 gpocrdy=3.816e-05

x2 4 3 2 1 nch_A l=L1 w=W1 nf=1 odind=1 gpocrdx=1.07395e-05 gpocrdy=3.816e-05

x3 4 3 2 1 nch_A l=L1 w=W1 nf=1 odind=1 gpocrdx=1.08055e-05 gpocrdy=3.816e-05

x4 8 7 6 5 nch_A l=L1 w=W1 nf=1 odind=2 pocrdx=1.10035e-05 gpocrdy=3.816e-05

x5 8 7 6 5 nch_A l=L1 w=W1 nf=1 edind=2 pocrdx=1.10695e-05 gpocrdy=3.816e-05 Open Innovation Platform®

Rth Ratio