

University of Oslo
Department of Informatics

IN5180
Analog Microelectronics Design

Lab 2



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1 Task 1: Design of a two stage operational amplifier

1.1 Specification and agenda

The goal of this task is to design an operational amplifier (opamp) with given specifications:

- Supply voltage (VDD) = 1.2 V
- External ideal reference current source 30 μ A
- Differential to single ended gain above > 100 V/V
- Unity gain frequency (UGF) > 10 MHz
- Phase margin (PM) > 65 degrees
- Common Source Rejection Ratio (CMRR) > 40 dB
- Power Supply Rejection Ratio (PSRR) > 50 dB

The design into has been split to 2 parts: the differential stage and the common source (CS) stage. Each stage is designed separately maximizing amplification and keeping bandwidth above 10 MHz. After that we are going to tune the output voltage of the differential stage to the operational point of the CS stage. The next step is to find a proper compensation elements to satisfy PM requirements. Then, the CMRR and PSRR are studied with final tuning of the opamp circuit.

1.2 General consideration for the design

We have chosen an opamp design with the p -channel input stage since in this case the second stage has an n -channel input transistor which maximize the transconductance of the second stage and, hence, high frequency performance [1]. The length of all transistors are equal to 130 nm as double minimum length of the the TSMC65 process [2]. The width of each MOSFET is split to several fingers for a compact layout with proper performance.

We decided to use a capacitive load of 5 pF because it is close to expected capacitance of the membrane which is a dominant load for the opamp.

The main current mirror used for driving the circuit is shown in Fig. 1. We choose a total width of $1\mu\text{m}$ for the diode-connected pFET as adequate value convenient for calculation.

Our initial plan was to utilize the $\frac{g_m}{I_D}$ approach to estimate geometry for the amplifying transistors in both differential and CS stages. However, we received inadequate values for the widths of the MOSFET and decided to rely on the hand calculation (the square law model) complimented by the Cadence simulation.

A few equations to be noted [1, 3]:

$$A_v = g_m r_{out}, \quad (1)$$

where A_v is a voltage gain of an CS amplifier, r_{out} is an output resistance, g_m is a transconductance of the amplifying MOSFET.

$$r_{ds} = \frac{L}{(\lambda L)I_D} \quad (2)$$

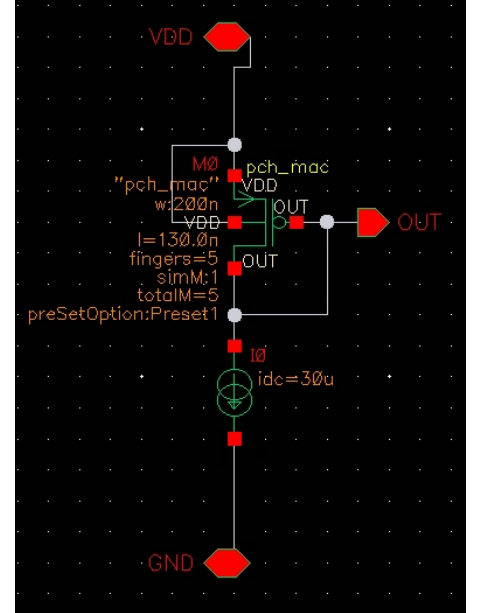


Figure 1

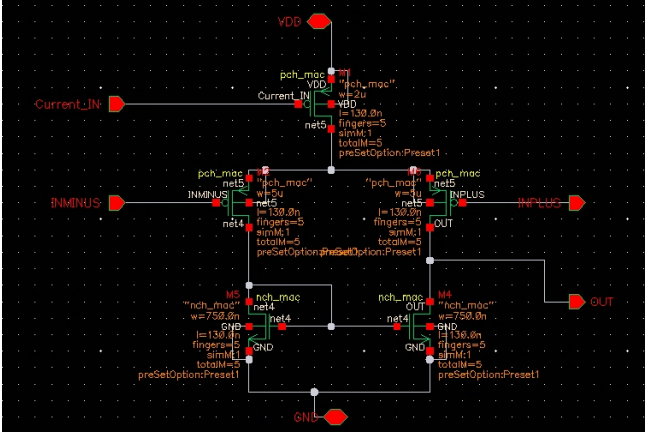
where r_{ds} is a drain to source resistance, λ is a output impedance constant, L is a channel length, I_D is a drain-to-source current, and (λL) - is a process parameter (0.1 and 0.15 $\mu\text{m}/\text{V}$ for NMOS and PMOS, respectively, in the 45nm-process)

The square law model:

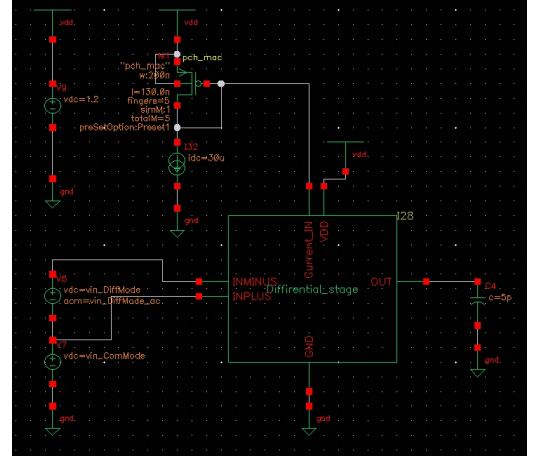
$$g_m = \sqrt{2\mu C_{ox} \left(\frac{W}{L}\right) I_D}, \quad (3)$$

where μ is a carrier mobility, C_{ox} is a oxide layer capacitance, W is a width and L is the length of the channel.

1.3 Differential stage



(a) Schematics of the differential stage



(b) Testbench

Figure 2: Differential stage and its testbench

The differential stage with p -channel input transistors is shown in Fig. 2a. Transistor M1 acts as a current source, M2 and M6 is an amplifying MOSFETs, while M4 and M5 is a current mirror in the differential stage.

If we take a look on Eqs. (1), (2), (3) we can notice that the lower current is associated with higher gain. However, the UGF can be estimated as $UGF = \frac{g_m}{2\pi C_L}$, meaning that the higher current supply is necessary for a proper high frequency behaviour. Thus, we select $W(M1)$ as 10 times of $M0$ in Fig. 1 to supply 300 μA .

The testbench for the differential stage is shown in Fig. 2b. The voltage source V7 is a common-mode input voltage, while V8 is responsible for the differential signal. The branch of the current-mirror common for both differential and CS stages is presented by transistor M1 and current source I32 similar to Fig. 1. The voltage source V9 provides is a power supply for the circuit, 5 pF capacitor is chosen as load.

We can estimate the required width of the amplifying transistors M2 and M6 using the square root model. The output resistance is equal to $(r_{ds6} || r_{ds4})$ and the differential gain of the differential pair can be determined similar to Eq. (1) as:

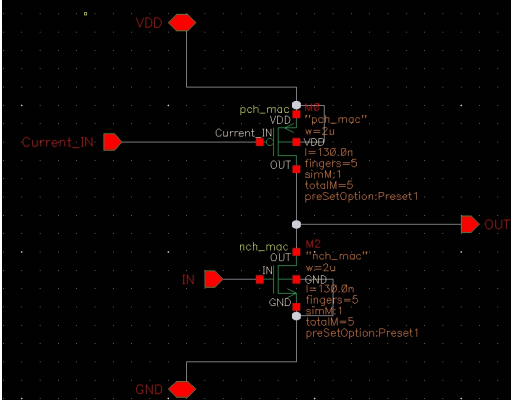
$$A_{v1} = g_{m1}(r_{ds2} || r_{ds4}) \quad (4)$$

The resistance of the MOSFET in saturation can be roughly found using Eq. (4) with I_d is equal to $300/2=150$ μA . Therefore, $(r_{ds6} || r_{ds4}) \approx 3500$ Ohm and, if we'd like to obtain gain of $A_v = 20$ V/V, the transconductance should be $g_{m6} = A_v / (r_{ds6} || r_{ds4}) \approx 5.7$ mS. The overdrive voltage can be expressed as $V_{eff} = \frac{2I_{D1}/g_{m1}}{2} \approx 0.05$ V and $W = \frac{2I_{D1}L}{\mu_n C_{ox} V_{eff}} \approx 11$ μm . Upon Cadence simulation, we correct the total widths $W(M6)$ and $W(M2)$ to 25 μm to obtain a proper voltage gain. The widths of M4 and M5 were optimized to get a output DC voltage optimal for the next CS stage and are discussed in Sec. 1.5.

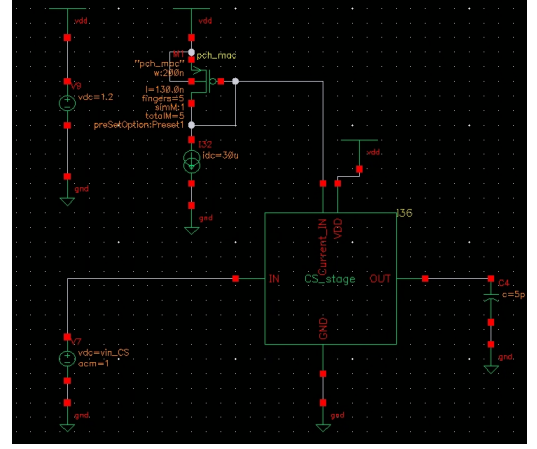
A suitable DC common mode voltage V_{cm} is chosen using Parametric Analysis in Cadence when V_{cm} varies from 300 to 900 mV with an increment of 10 mV while AC-analysis is performed for each step. It revealed

that the optimal for our circuit value of V_{cm} is 480 mV because it gives a maximum UFG about 20 MHz and relatively high gain about 17 V/V.

1.4 Common-source stage



(a) Schematics of the common-source stage



(b) Testbench

Figure 3: Common-source stage and its testbench

The schematics of the CS stage is shown in Fig. 3a. Transistor M0 is a current source with a total width of 10 μm to supply about 300 μA of current to transistor M2. The latter is responsible for the amplification in the CS stage.

When we began to design this stage, we planned to refer to the $\frac{g_m}{I_D}$ method. However, the values we got for W_2 were above 700 μm , which is not considered to be adequate. Thus, we abandoned this method and turned back to square law model. Similar to hand calculation in 1.3, the optimum value for W_2 is found to be 4.5 μm for a expected voltage gain of 20. The testbench for the CS stage is very similar to that for the differential stage and is shown in Fig. 3b. Varying input DC voltage on the voltage supply V7, we can get a voltage gain on the output. However, we should take into account that while the amplification is higher in sub-threshold region, the bandwidth is higher in saturation. In addition to that, we can avoid some unpredictable behavior of the circuit keeping all the transistors saturated. Because of these considerations, the final width W_2 was chosen to be 10 μm . In this case, the operation point for M2 is above threshold voltage ($V_{th} = 525$ mV) and equal to 570 mV. The final gain for this stage is 14.5 V/V and UGF is 66 MHz.

1.5 Two stage opamp. Stability and compensation

Firstly, we are going to combine both stages together and optimize the output DC voltage from the differential part to coincide with operational point of the CS stage. As discussed in the previous sub-chapter, the operational point for the CS stage is 570 mV. We found that the most efficient way to get this value on the output of the differential stage is to optimize the widths of transistors M4 and M5 in the current mirror in Fig. 2a. As it shown in Fig. 2a, the desired values for total widths W_4 and W_5 is 3.75 μm .

The total gain and UGF are presented in Fig. 4. The total gain is about 210 V/V (46.44 dB) and UGF is close to 500 MHz without a compensation circuit. That is a good result well above the required specs in Ch. 1.2. The especial attention was paid to verify that all the transistors operate in saturation with selected operation point and MOSFET parameters.

Now let us build a compensation circuit to get a desired stability and Phase Margin. The whole opamp with a compensation circuit is shown in Fig. 5. The compensation circuit consists of R_c and C_c in a feedback loop between input and output of the CS stage. The testbench to perform stability test ("stb"-analysis in Cadence)

is shown in Fig. 6. The opamp there is in voltage follower configuration with a probe IPRB0 breaking the feedback loop.

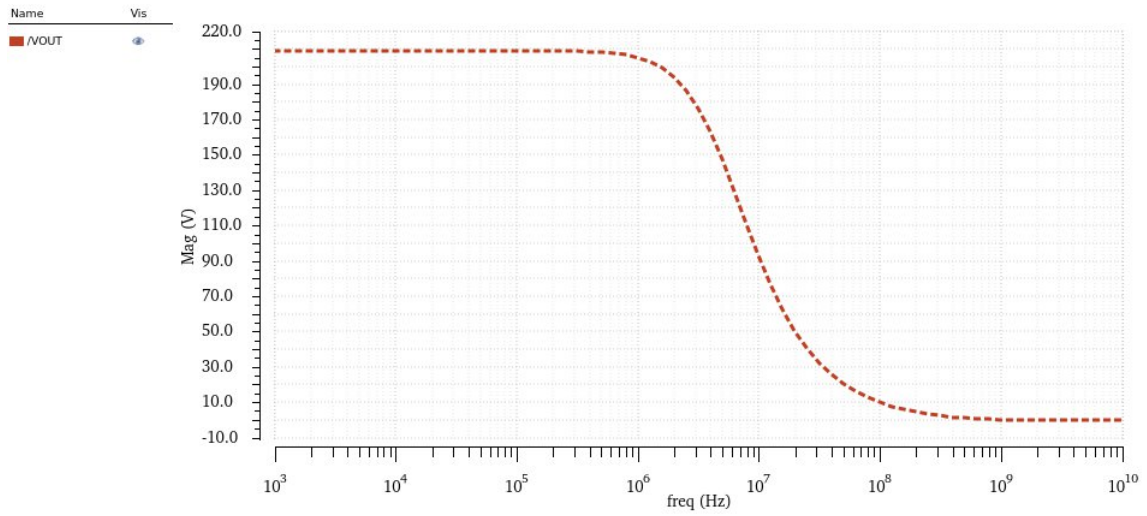


Figure 4: AC-analysis of the two stage opamp without compensation.

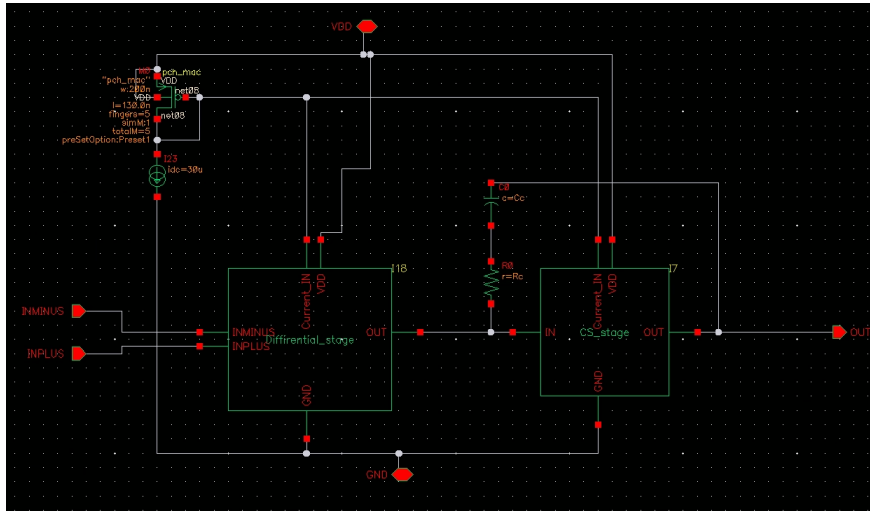


Figure 5: Schematics of the two stage opamp with the compensation circuit consisting of R_c and C_c

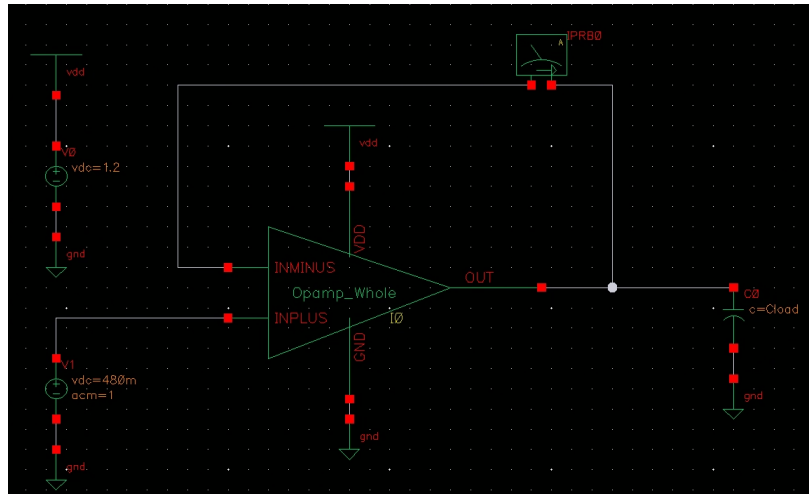


Figure 6: The two stage opamp with compensation circuit in voltage follower configuraion.

As a starting point, we plot the Bode plot for our opamp without compensation as shown in Fig. 7a. Despite the superior bandwidth of 608 MHz, we can see that PM is only 30.8°. We can distinguish two poles with frequencies about 5 MHz and 1 GHz and one zero giving phase growth above 10 GHz (LHPZ). We are going to utilize a procedure discussed in the lectures to split poles to get suitable PM [3]. The first pole will get much lower frequency while the second one will go below 0 dB to eliminate its contribution the amplifier performance. However, there is a trade-off between the stability and the bandwidth of the opamp.

The procedure for capacitive compensation is presented below.

1. First, the resistor is set to 0 Ohm and we tune only C_c . Starting with $C'_C = (\beta \frac{g_{m1}}{g_{m7}})C_L$ setting unit gain frequency close to second pole. $g_{m7} = 1.16\text{mS}$ (from the cadence simulation) $g_{m1} = 2.225\text{mS}$ (from the cadence simulation) $\beta = 1$ (voltage follower configuration) $C_L = 5\text{ pF}$
2. By simulating in cadence, find frequency with -125° phase shift (called A'), this is the unit gain frequency ω_t target.
3. Choose new C_C such that ω_t is unit-gain frequency of L(s)
 - $C_C = C'_C A'$ phase margin
 - Simulate for several times.

The following values are obtained:

- $C_{c1} = 0.52C_L = 2.6\text{ pF}$, $w_{t1} = 31\text{ MHz}$, $A_1 = 1.73\text{ V/V}$
- $C_{c2} = C_{c1} \times A_1 = 4.498\text{ pF}$, $w_{t2} = 24.5\text{ MHz}$, $A_2 = 1.43\text{ V/V}$
- $C_{c3} = C_{c2} \times A_2 = 6.43\text{ pF}$, $w_{t3} = 20\text{ MHz}$, $A_3 = 1.25\text{ V/V}$
- $C_{c4} = C_{c3} \times A_3 = 8.04\text{ pF}$, $w_{t4} = 17.35\text{ MHz}$, $A_4 = 1.184\text{ V/V}$
- $C_{c5} = C_{c4} \times A_4 = 9.52\text{ pF}$, $w_{t5} = 16\text{ MHz}$, $A_5 = 1.117\text{ V/V}$
- $C_{c6} = C_{c5} \times A_5 = 10.63\text{ pF}$, $w_{t6} = 15.3\text{ MHz}$, $A_6 = 1.08\text{ V/V}$
- $C_{c7} = C_{c6} \times A_6 = 11.5\text{ pF}$, $w_{t7} = 13.95\text{ MHz}$, $A_1 = 1.0\text{ V/V}$ and it is a final value for C_c

The result of the capacitive compensation is shown in Fig. 7b. We can observe that capacitive compensation allowed achieving PM about 60°. However, we had to pay by much lower UGF equal to 13.5 MHz. The specs requires PM above 65°. One of the possible way to get higher PM is an introduction of a resistor (labelled as R_c) in the compensation circuit. The common procedure for that is listed below:

1. Choose $R_C = \frac{1}{1.7\omega_t C_C}$ giving phase margin of $85^\circ(+30^\circ)$ leaving 5° for variations.
2. Replace R_C with transistor $R_C = \frac{1}{\mu_n C_{ox} (\frac{W}{L} V_{eff})}$.

We have tried to use formula above to find R_c . However, we obtained a quite high resistance of 3.6 kOhm which disturbed the phase of the opamp significantly. To avoid it, we decided to perform stability test using Parametric Analysis in Cadence sweeping R_c from 0 to 1000 Ohm and choosing appropriate value. The best-fitting R_c is found to be 600 Ohm. The Bode plot for the opamp with capacitive-resistive compensation is shown in Fig. 7c. After the final compensation the PM is about 90°. The UGF is not affected by the resistive compensation and still equal to 13 MHz. The resulted PM is well above the required 65° from specs. We estimated in Cadence that the designed opamp can drive much higher capacitive load with acceptable PM. Only $C_L = 20\text{ pF}$ can decrease PM to 65°.

The next task in this lab is to develop comparator. The easiest way to do that is to make a cascade of opamps. However, the bandwidth of comparator BW_{tot} is significantly lower than that of single opamp BW and defined as $BW_{tot} = BW\sqrt{2^{1/N} - 1}$, where N is a total number of opamps in the cascade. Hence, it is beneficial to sacrifice some PM to get a higher BW of the opamp. To do that, we decided to reduce C_c and increase R_c . In addition to higher BW we also save an area occupied by the capacitor. The final Bode plot of opamp with the updated compensation is shown in Fig. 7d. In this configuration, the UGF is 45 MHz and the PM is 76° which is also above the required specification of 65°.

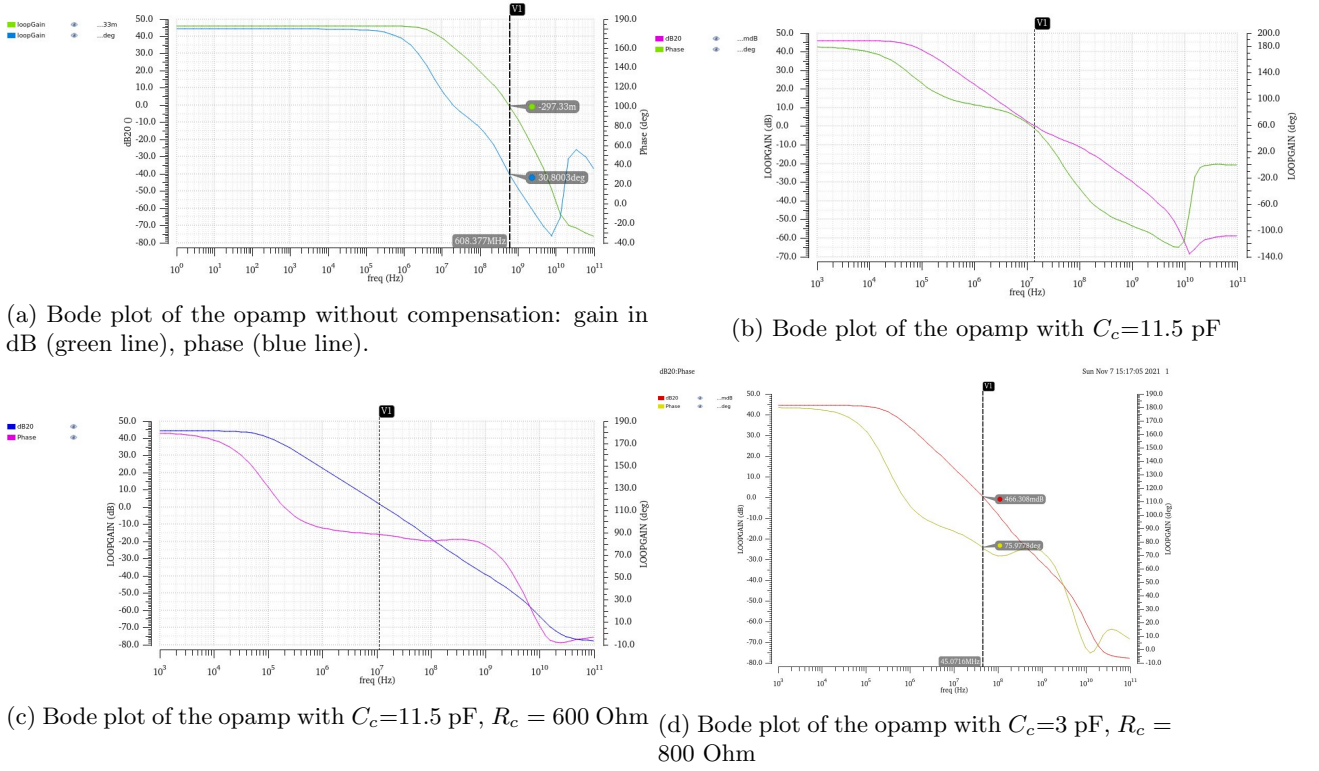


Figure 7: Bode plot of the opamp at different stages of compensation

1.6 Common mode and power supply and rejection ratios

The common mode rejection ratio (CMRR) is a parameter defined as a ratio of differential-mode gain to the common-mode gain: CMRR illustrates an ability of the opamp to reject common mode signals: $CMRR = 20 \log_{10} \frac{A_d}{A_{CM}}$. The power supply rejection ratio is a similar term defined as a ratio of differential-mode gain to the gain of power supply voltage variation $PSRR = 20 \log_{10} \frac{A_d}{A_{vdd}}$.

To study CMRR and PSRR, we build a testbench shown in Fig. 8. Then, we perform "xf"-analysis in Cadence to investigate an impact of each voltage supply on the output voltage for our opamp. We use two separated voltage sources for VDD and GND to distinguish their PSRR. To optimize PSRR and CMRR, we decided to vary the DC operational point V_{cm} . In this case we sacrifice a bit of gain, but it helps to improve CMRR and PSRR. The results are presented in Fig. 9. CMRR improved from 41 dB to 48 dB, PSRR(vdd) increase from 42 dB to 53 dB, while PSRR(gnd) drops from 50 dB to 47 dB. We also sacrificed only 2 dB in differential gain (from $A_{diff}=46$ dB for $V_{cm} = 480$ mV to $A_{diff}=44$ dB for $V_{cm} = 350$ mV).

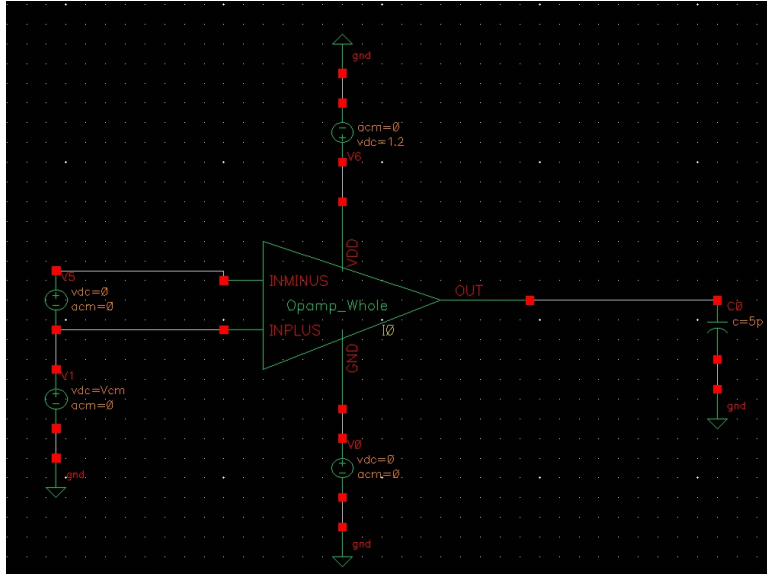


Figure 8: Testbench for CMRR- and PSRR-analysis

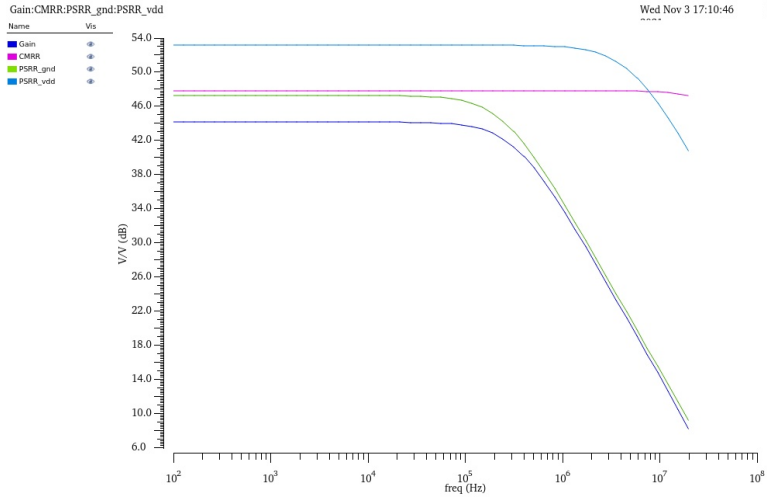
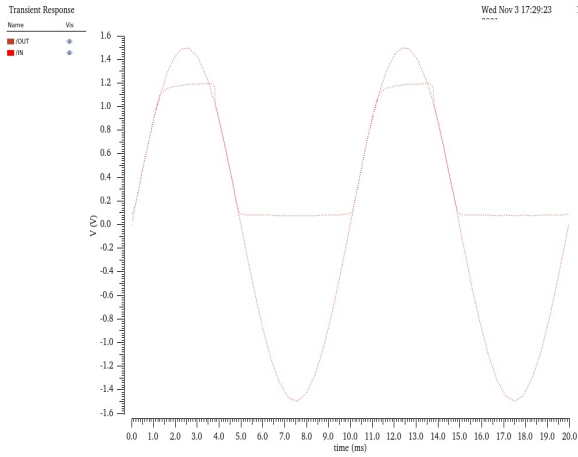


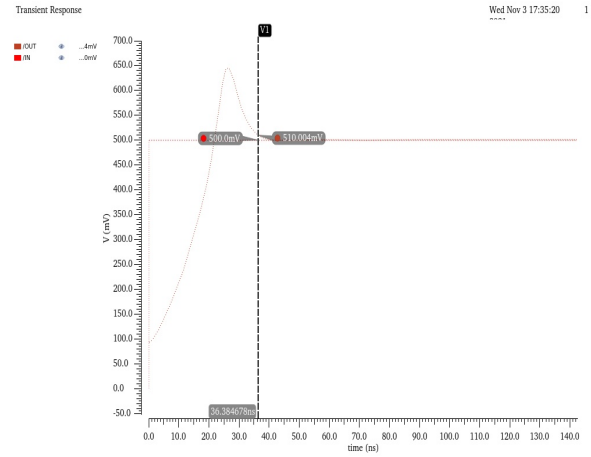
Figure 9: Gain, CMRR and PSRR for the opamp.

1.7 Slew rate, Output Swing, Settling time and Power Consumption of the opamp

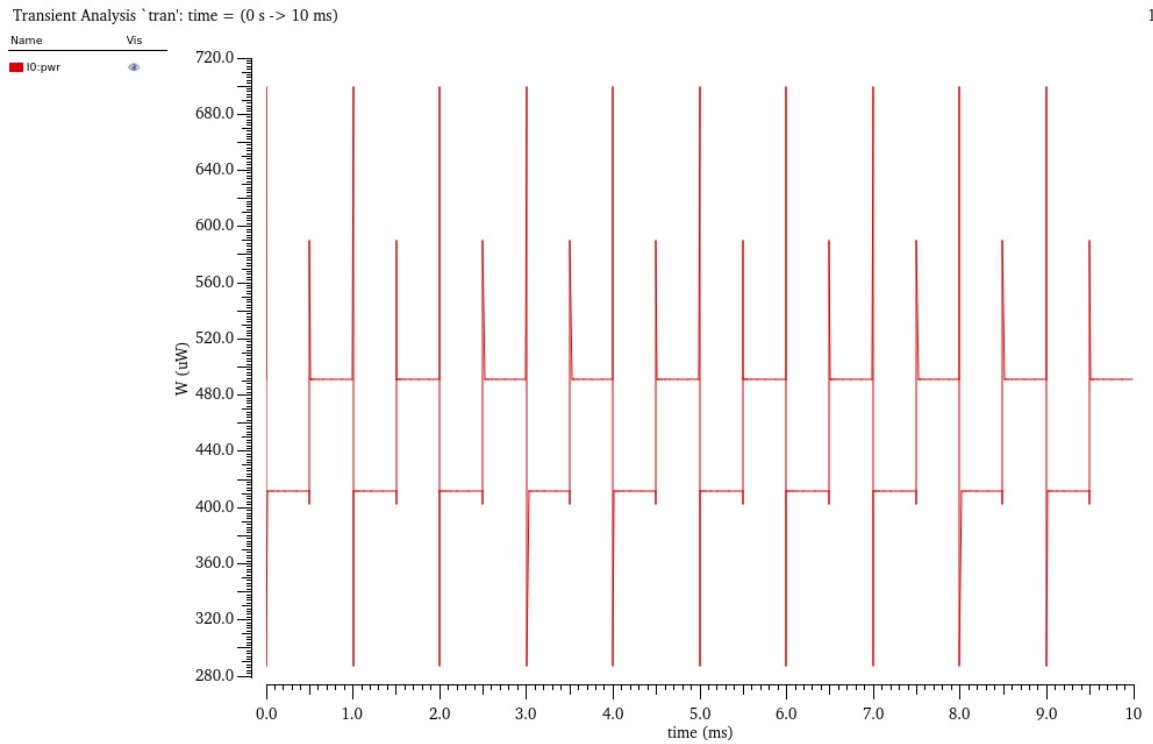
We performed a transient analysis of the opamp in the voltage follower configuration to study output swing, slew rate and settling time. The results are shown in Fig. 10. While we keep V_{dd} at 1.2 V we applied an input voltage above V_{dd} to study maximum output voltage. The latter is found to be almost equal to 1.2 V (see Fig. 10a). The response of the voltage follower to step function is shown in Fig. 10b. There is a 30% overshoot for the output voltage but it stabilizes during 36 ns (margin 2% of the final value) which is fast enough for our goal in next task. The slew rate is about 28 V/ μ S which is also a satisfying result. The power consumption in case of the pulsed input voltage is demonstrated in Fig. 10c.



(a) Output swing



(b) Settling time and slew rate



(c) Power consumption

Figure 10: Transient analysis of the opamp

1.8 The final specs for the designed opamp

- Supply voltage (V_{DD}) = 1.2 V
- External ideal reference current source $30\ \mu\text{A}$
- Differential to single ended gain above $161\ \text{V/V}$ (44.145 dB)
- Unity gain frequency (UGF) = 45 MHz
- Phase margin (PM) = 75° for $C_L = 5\text{pF}$
- CMRR = 47.8 dB
- PSRR = 53.2 dB for VDD; PSRR = 47.2 dB for GND
- Slew Rate $28\ \text{V}/\mu\text{s}$
- Settling time 36 ns for 500 mV input step

The gain of the opamp should be high enough to provide a required sensitivity for the neural model. PM is important for stability during driving capacitive load of membrane. The opamp is intended to be used in the comparator design and should be fast enough to deal with μs -pulses. Slew rate, BW, and settling time reflects the speed of the opamp.

1.9 The layout, DRC and LVS reports for the 2-stage opamp

In this section, we are going to present the layout and its relevant checks, the DRC and LVS reports (to be enclosed in the appendix). Eight MOSFET are placed in the left part of the layout while resistor *rnondwo* and huge capacitor *crtmom* are on the right. The capacitor occupies most of the silicon area. Thus, even a capacitor of 3 pF requires a lot of space on the chip.

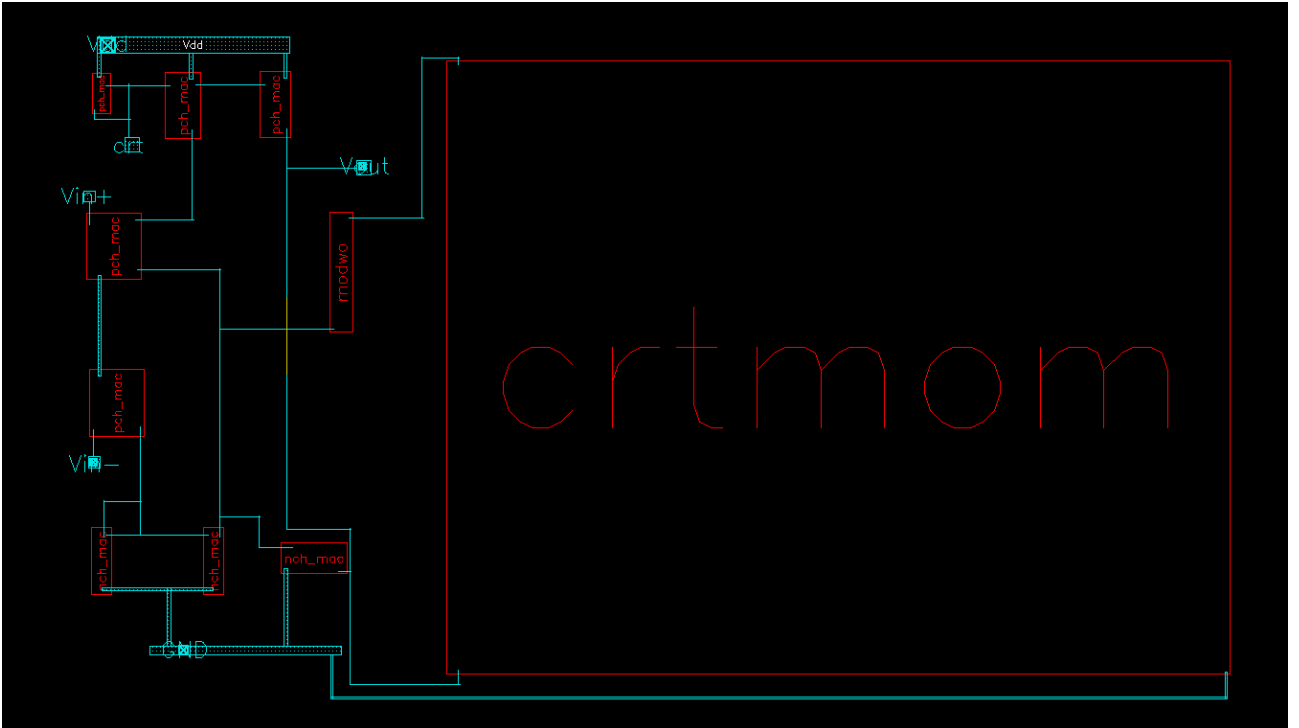


Figure 11: Layout view for 2 stage opamp, including both differential and common source stages.

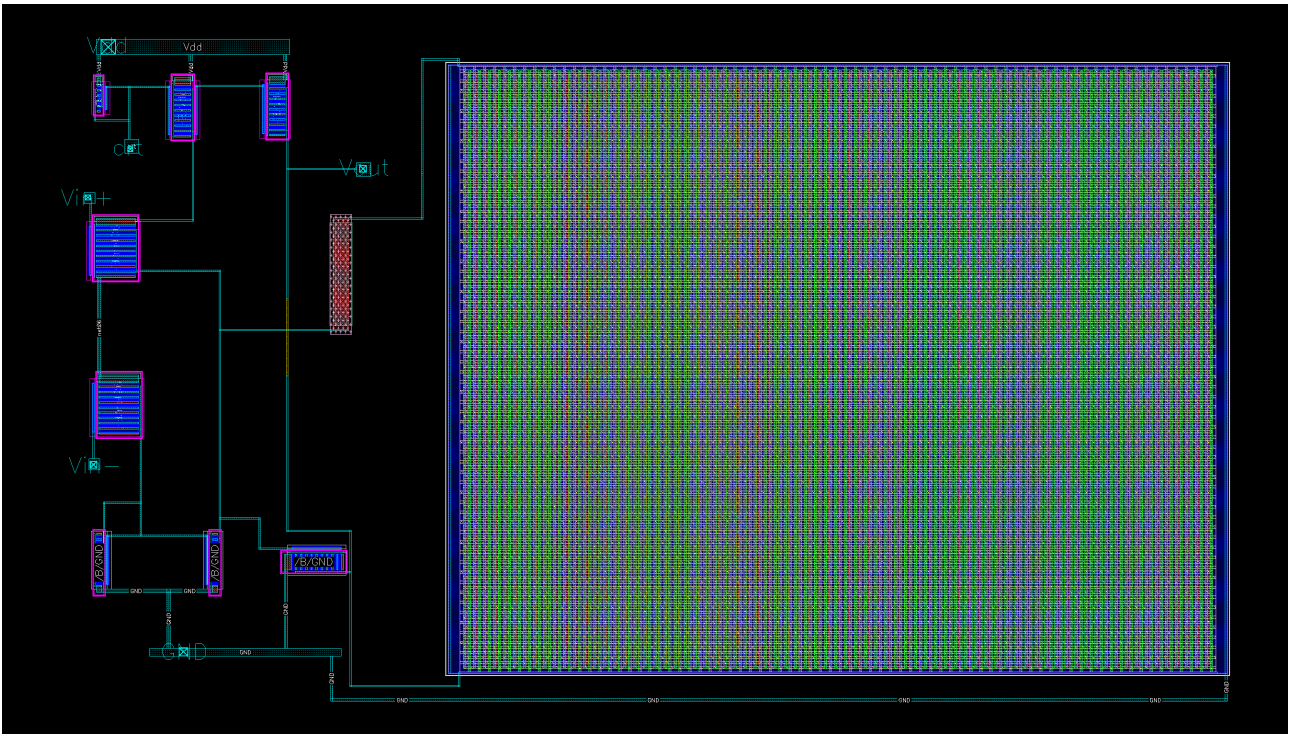


Figure 12: Layout view for 2 stage opamp, including both differential and common source stages.

2 Task 2: Design of comparator

We have chosen to develop a comparator based on the opamp from the previous task. We considered two possible schematics: a clocked opamp-based comparator and a regular opamp-based circuit.

2.1 The clocked comparator

The clocked comparator schematics is shown in Fig. 13. The circuit is based on the schematics from Fig.10.11 in Ref. [1]. This design helps to diminish the input offset. The main clock ϕ_2 connects the input to the cascade of opamps during the comparison phase when both opamps are in open loop configuration. The clocks ϕ_1 , ϕ_{11} , ϕ_{111} are activated during the reset phase when the input voltage is disconnected and both opamps are in voltage follower configuration with input connected to the ground via capacitor. These clocks have a different durations to eliminate the charge-injection effects. The timing of all clocks are shown in Fig. 14a.

The output voltage $OUT2$ from this comparator is shown in Fig. 14b together with the main clock ϕ_2 . During first 1 ms the input voltage V_{in} is 500 nV lower than the reference voltage and the $OUT2$ is about 0 during the clock comparison phase (when $\phi_2 = 1.2$ V). Between the clock cycle time the output voltage $OUT2$ demonstrates some pattern but this signal is not "recorded" since $\phi_2 = 0$ V. During next 1 ms V_{in} is 500 nV higher than the reference voltage and the $OUT2 = 1.2$ V during the comparison phase meaning that the device has a sensitivity about 500 nV. Between the clock cycle time the output voltage has the same pattern which is again not recorded. This clocked design has a bit higher sensitivity than the regular opamp-based circuit but has a lower operational speed (the clock period is 10 μ s). In general, the clock period can be decreased but the procedure is complicated because of the difficulty of tuning four different clocks. Thus, we have chosen to continue with a regular opamp-based circuit.

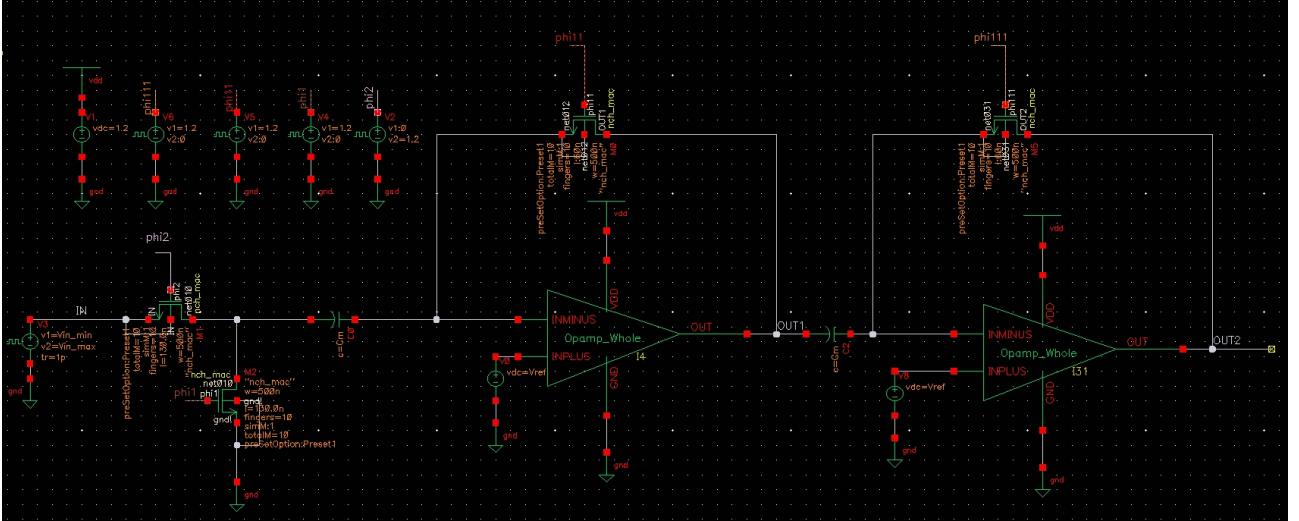


Figure 13: Clocked comparator with two opamps

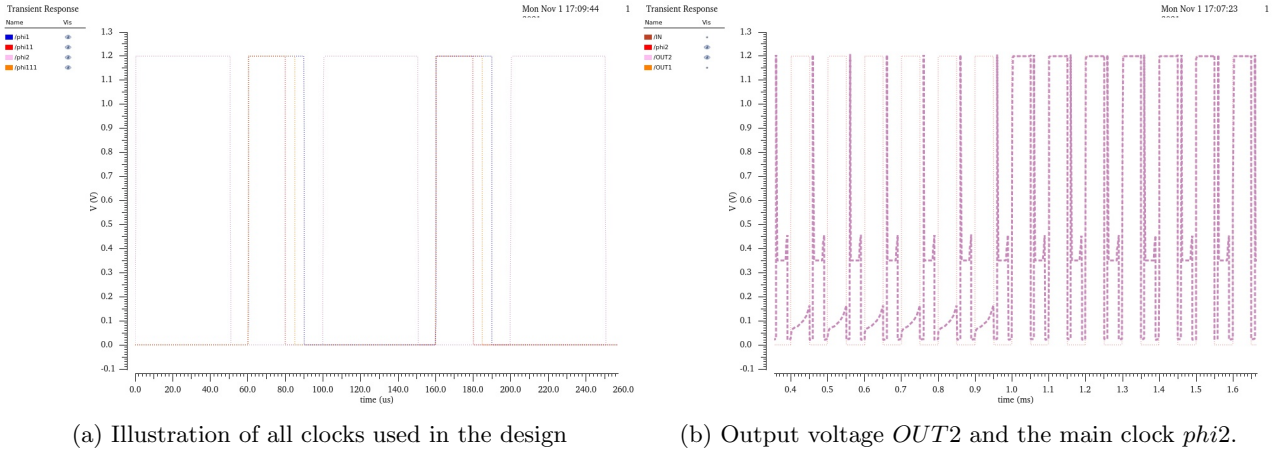
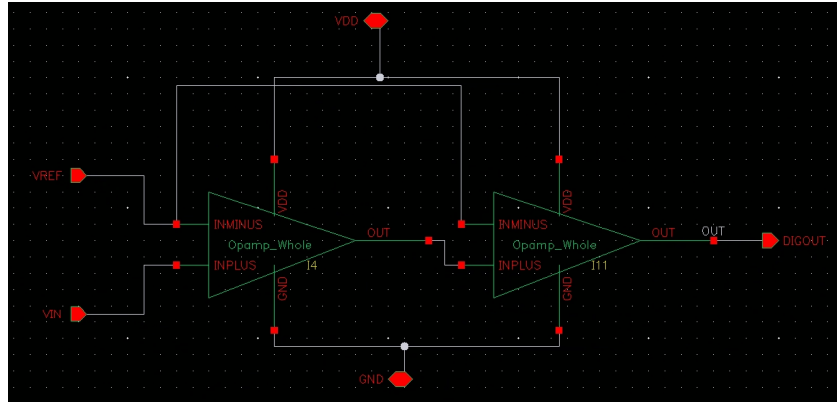


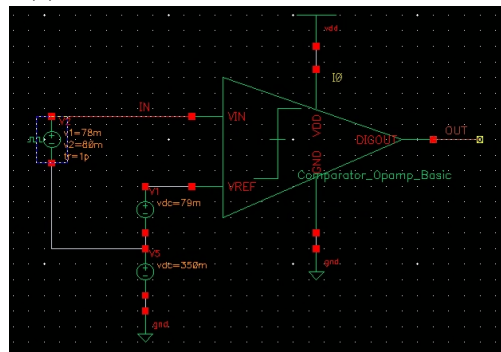
Figure 14: Results for the clocked comparator.

2.2 The non-clocked opamp-based comparator

The easier approach is just to connect two opamps in cascade as shown in Fig. 15a. We should take into account that both inputs should be also connected to common mode voltage of 350 mV (operation point for our opamp). This circuit simply amplifies the difference between inputs up to maximum output voltage 1.2 V if $V_{IN} > V_{REF}$ or to 0 V if $V_{IN} < V_{REF}$. The testbench for this comparator is presented in Fig. 15b. The sensitivity of this schematics is below 1 mV meaning that the device distinguishes 1 mV-difference between V_{IN} and V_{REF} as shown in transient analysis in Fig. 16. The input voltage is a pulses from 78 to 80 mV while the reference voltage is 79 mV with a period of 3 ms. The speed is good enough to record pulses with period of $1\mu s$. These specifications is enough for application with the neural model in Task 3.



(a) Basic comparator based on two opamps



(b) Testbench for the basic comparator

Figure 15: Basic comparator and its testbench.

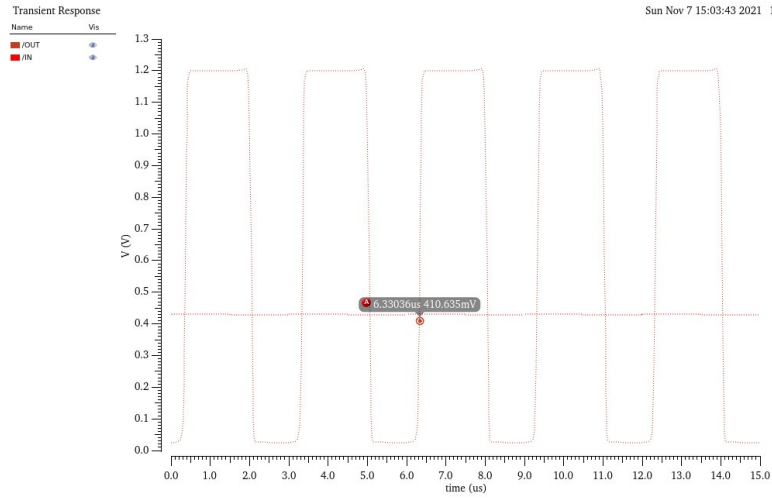


Figure 16: The performance of basic comparator circuit

The power consumption of the designed comparator is comparable with the consumption of two opamp. As it shown in Fig. 17, it is up to 900 mW.

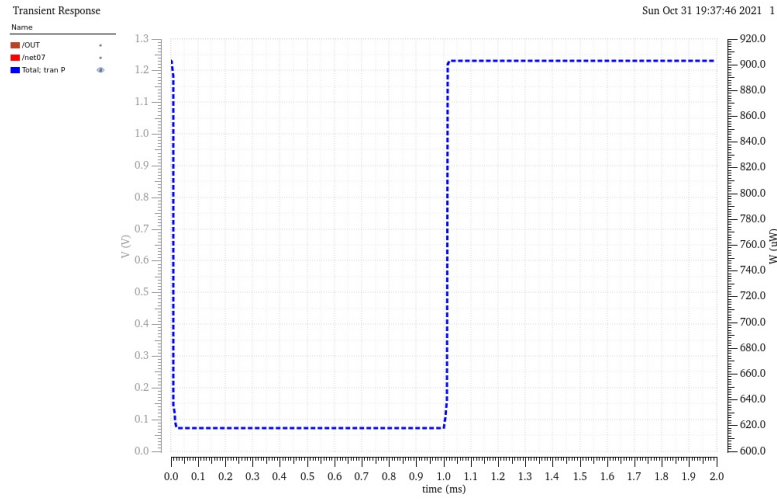
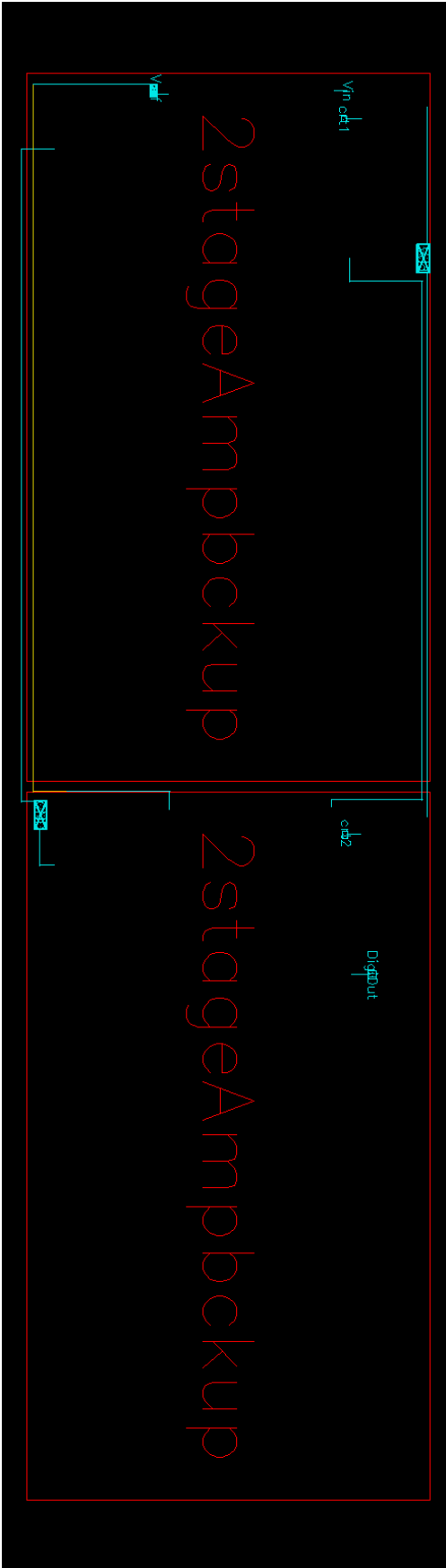


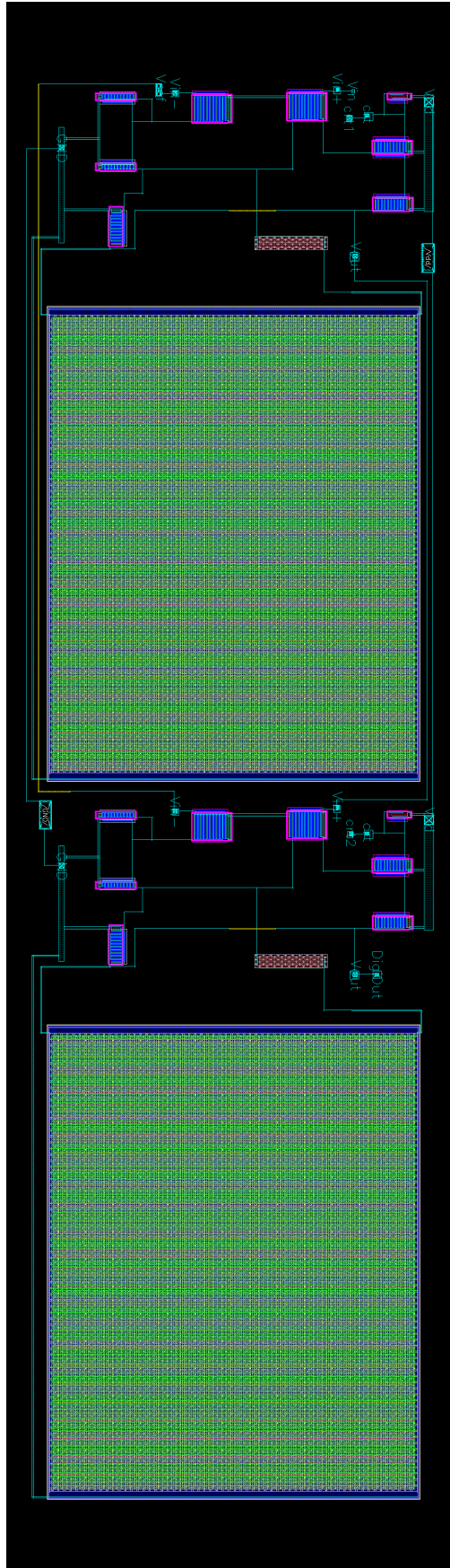
Figure 17: Power consumption of the comparator

2.3 The layout, DRC and LVS reports for the non-clocked comparator.

In this section, we are going to present the layout and its relevant checks, the DRC and LVS reports (to be enclosed in the appendix). The design of non-clocked comparator is just two opamp connected in series and it is reflected in its layout.



(a) Layout connection view for comparator.



(b) Layout detail view for comparator.

Figure 18: Layout for the comparator

3 Task 3: The neural model

In this task we are going to implement the neural model the opamp and the comparator we designed in the previous chapters.

3.1 The design and schematic

The schematics of Integrate and Fire Neuron is based on the circuit from Ref. [4] The circuit is shown in Fig. 19. Two pulsed current sources mimic the neural stimulus from two synapses. The opamp is connected in integrating configuration with the membrane capacitance of 5 pF. The comparator fire the spike and short the loop of opamp via nFET M0. The reference voltage is 80 mV while the common mode voltage is 350 mV for both comparator and opamp. It means that the comparator should send the High signal as soon as voltage on IN -terminal exceeds 430 mV.

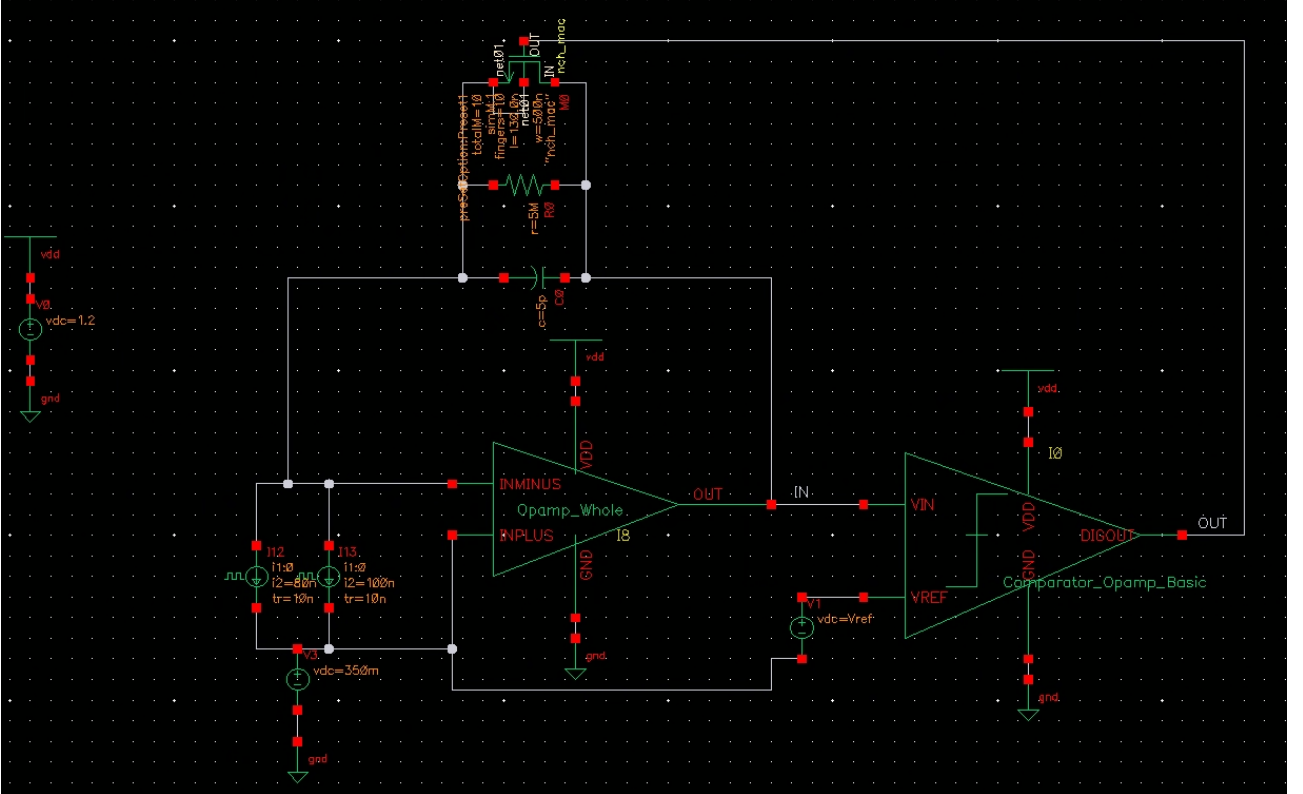


Figure 19: Neural model with integrate and fire function.

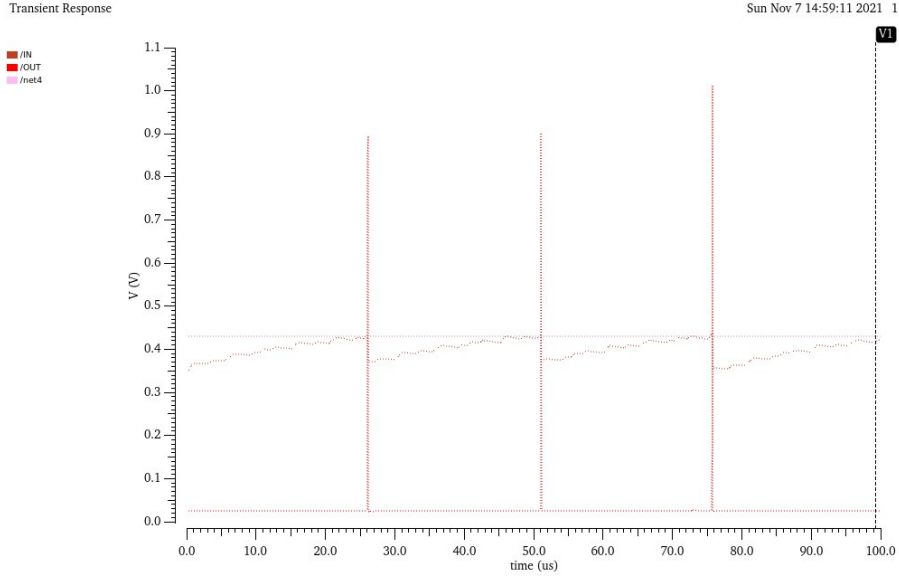


Figure 20: Neural model with integrate and fire function.

The results of the transient simulation is shown in Fig. 20. We can see that the schematics works exactly as we expected. Every pulse from the current sources are integrated by the opamp that manifests as steps on the *OUT* graph. As soon as integrated signal on terminal *IN* reaches 430 mV (the reference voltage on the comparator, */net4* in Fig. 20) the spike from the comparator resets voltage back to the common mode value of 350 mV.

3.2 The layout, DRC and LVS reports for the neural model (excluding spike generation)

In this section, we are going to present the layout and its relevant checks, the DRC and LVS reports (to be enclosed in the appendix). The design of the neural model is a connection of the 2-stage OpAmp and the comparator.

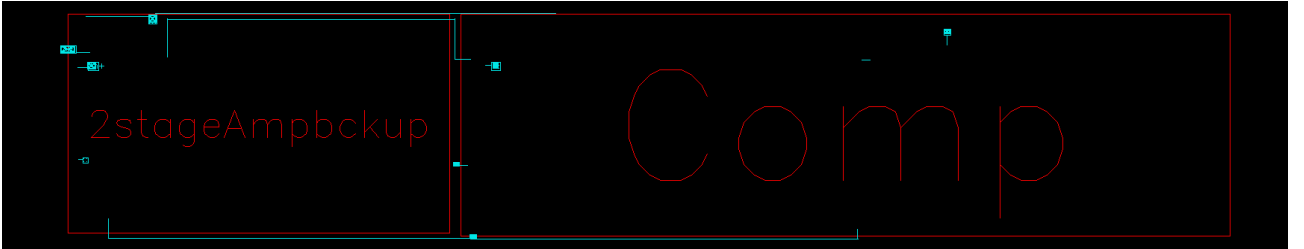


Figure 21: Layout connection view for the neural model.

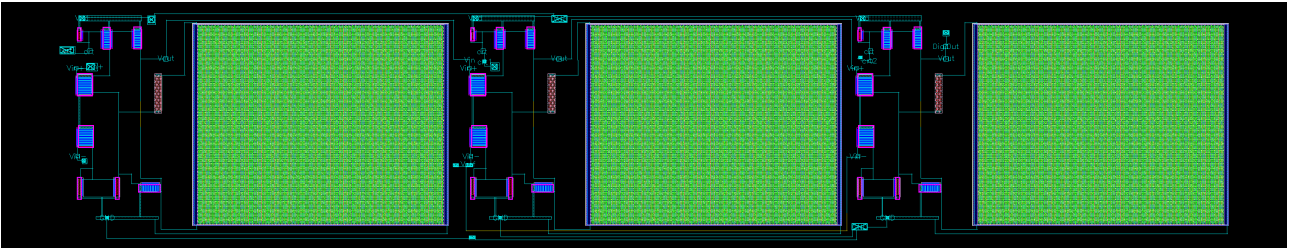


Figure 22: Layout detail view for the neural model.

References

- [1] Tony Ch. Carusone, David A. Johns, Kenneth W. Martin, *Analog Integrated Circuit Design*. Wiley, Inc., Inc., Printed in the USA, 2012.
- [2] Taiwan Semiconductor Manufacturing Co,
<https://europactice-ic.com/mpw-prototyping/asics/tsmc/>
<https://www.tsmc.com/english/dedicatedFoundry/technology>
- [3] Kristian Gjertsen Kjelgård *Lecture notes in IN5180 - Analog Microelectronics Design*. University of Oslo, 2021.
- [4] Bibhu Datta Sahoo, *Ring oscillator based sub-1V leaky integrate-and-fire neuron circuit*. Scientific Reports 7, 2017.

4 Appendix

4.1 Workload distribution

Task distribution		
Tasks	Kun Zhu	Illia Ilia Kolevatov
Differential stage	Secondary	✓Main
Common-source stage	✓Main	Secondary
Compensation	Secondary	✓Main
Comparator	Secondary	✓Main
Neuron spike circuit		✓Main
Layout	✓Main	
DRC report	✓Main	
LVS report	✓Main	

4.2 The DRC results

For the DRC checks, the following rules are excluded:

- Density checks.
- DOD*
- DPO*
- DM*
- ESD*
- PO.R8

The DRC report start from the next line.

```
Neuron 1000
NET_AREA_RATIO_RDBS
0 0 35 Nov 12 15:40:12 2021
M1.DN.6.M1.density 0
M1.DN.6.M2.density 0
M2.DN.6.M2.density 0
M1.DN.6.M3.density 0
M2.DN.6.M3.density 0
M3.DN.6.M3.density 0
M2.DN.6.M4.density 0
M3.DN.6.M4.density 0
M4.DN.6.M4.density 0
M3.DN.6.M5.density 0
M4.DN.6.M5.density 0
M5.DN.6.M5.density 0
M4.DN.6.M6.density 0
M5.DN.6.M6.density 0
M5.DN.6.M7.density 0
MOM.A.1.rep 0
MOM.A.2.rep 0
IND.DN.1L.M1.density 0
```

IND.DN.1H.M1.density 0
IND.DN.1L.M2.density 0
IND.DN.1H.M2.density 0
IND.DN.1L.M3.density 0
IND.DN.1H.M3.density 0
IND.DN.1L.M4.density 0
IND.DN.1H.M4.density 0
IND.DN.1L.M5.density 0
IND.DN.1H.M5.density 0
IND.DN.1L.M6.density 0
IND.DN.1H.M6.density 0
IND.DN.1L.M7.density 0
IND.DN.1H.M7.density 0
IND.DN.1L.M8.density 0
IND.DN.1H.M8.density 0
IND.DN.1L.M9.density 0
IND.DN.1H.M9.density 0

4.3 The DRC summary

```
=====
=== CALIBRE::DRC-H SUMMARY REPORT
===
Execution Date/Time:      Fri Nov 12 15:40:10 2021
Calibre Version:         v2020.4_15.9    Thu Oct 1 15:09:27 PDT 2020
Rule File Pathname:      /uio/hume/student-u52/kunzh/cadence617_tsmc65rf_oa/_calibre.drc_
Rule File Title:
Layout System:           GDS
Layout Path(s):          Neuron.calibre.db
Layout Primary Cell:     Neuron
Current Directory:       /uio/hume/student-u52/kunzh/cadence617_tsmc65rf_oa
User Name:               kunzh
Maximum Results/RuleCheck: 1000
Maximum Result Vertices: 4096
DRC Results Database:    Neuron.drc.results (ASCII)
Layout Depth:            ALL
Text Depth:              PRIMARY
Summary Report File:     Neuron.drc.summary (REPLACE)
Geometry Flagging:       ACUTE = YES  SKEW = YES  ANGLED = NO  OFFGRID = YES
                          NONSIMPLE POLYGON = YES  NONSIMPLE PATH = NO

Excluded Cells:
CheckText Mapping:       ALL TEXT
Layers:                  MEMORY-BASED
Keep Empty Checks:       NO
-----

--- RUNTIME WARNINGS
---
Cell name parameter      for INSIDE CELL operation not located.
Cell name parameter      for NOT INSIDE CELL operation not located.
Cell name parameter      for INSIDE CELL operation not located.
Cell name parameter      for NOT INSIDE CELL operation not located.
Cell name parameter      for INSIDE CELL operation not located.
Cell name parameter      for NOT INSIDE CELL operation not located.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
PROJECTING constraint    only supported with PARALLEL ONLY - setting PARALLEL ONLY.
-----

--- ORIGINAL LAYER STATISTICS
---
LAYER FWCUi ..... TOTAL Original Geometry Count = 0    (0)
LAYER FWALi ..... TOTAL Original Geometry Count = 0    (0)
```

LAYER SRAMDMY_5	TOTAL Original Geometry Count = 0	(0)
LAYER SRAMDMY_4	TOTAL Original Geometry Count = 0	(0)
LAYER M8_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER DUM8_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM8_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM8_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER M9_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER DUM9_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM9_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM9_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER VIA7_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV7_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV7_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER VIA8_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV8_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV8_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER VIA9_NEW	TOTAL Original Geometry Count = 0	(0)
LAYER DOD	TOTAL Original Geometry Count = 0	(0)
LAYER ODi	TOTAL Original Geometry Count = 111	(348)
LAYER DPO	TOTAL Original Geometry Count = 0	(0)
LAYER POi	TOTAL Original Geometry Count = 279	(960)
LAYER DUM1	TOTAL Original Geometry Count = 0	(0)
LAYER M1i	TOTAL Original Geometry Count = 466	(1372)
LAYER DUM2	TOTAL Original Geometry Count = 0	(0)
LAYER M2i	TOTAL Original Geometry Count = 134	(409)
LAYER DUM3	TOTAL Original Geometry Count = 0	(0)
LAYER M3i	TOTAL Original Geometry Count = 159	(486)
LAYER DUM4	TOTAL Original Geometry Count = 0	(0)
LAYER M4i	TOTAL Original Geometry Count = 129	(396)
LAYER DUM5	TOTAL Original Geometry Count = 0	(0)
LAYER M5i	TOTAL Original Geometry Count = 159	(486)
LAYER DUM6	TOTAL Original Geometry Count = 0	(0)
LAYER M6i	TOTAL Original Geometry Count = 129	(396)
LAYER DUM7	TOTAL Original Geometry Count = 0	(0)
LAYER M7i	TOTAL Original Geometry Count = 159	(486)
LAYER SRAMDMY	TOTAL Original Geometry Count = 0	(0)
LAYER DNWi	TOTAL Original Geometry Count = 0	(0)
LAYER NWi	TOTAL Original Geometry Count = 5	(18)
LAYER OD_18i	TOTAL Original Geometry Count = 0	(0)
LAYER OD_25i	TOTAL Original Geometry Count = 0	(0)
LAYER OD_33i	TOTAL Original Geometry Count = 0	(0)
LAYER OD_DECAP	TOTAL Original Geometry Count = 0	(0)
LAYER PPi	TOTAL Original Geometry Count = 12	(42)
LAYER NPi	TOTAL Original Geometry Count = 12	(39)
LAYER CBi	TOTAL Original Geometry Count = 0	(0)
LAYER CB2i	TOTAL Original Geometry Count = 0	(0)
LAYER RPOi	TOTAL Original Geometry Count = 1	(3)
LAYER NT_Ni	TOTAL Original Geometry Count = 0	(0)
LAYER POFUSE	TOTAL Original Geometry Count = 0	(0)

LAYER FUSELINK	TOTAL Original Geometry Count = 0	(0)
LAYER PMi	TOTAL Original Geometry Count = 0	(0)
LAYER PM1i	TOTAL Original Geometry Count = 0	(0)
LAYER PM2i	TOTAL Original Geometry Count = 0	(0)
LAYER VTH_Ni	TOTAL Original Geometry Count = 0	(0)
LAYER VTH_Pi	TOTAL Original Geometry Count = 0	(0)
LAYER VTL_Ni	TOTAL Original Geometry Count = 0	(0)
LAYER VTL_Pi	TOTAL Original Geometry Count = 0	(0)
LAYER UHVT_Ni	TOTAL Original Geometry Count = 0	(0)
LAYER UHVT_Pi	TOTAL Original Geometry Count = 0	(0)
LAYER CBDi	TOTAL Original Geometry Count = 0	(0)
LAYER UBMi	TOTAL Original Geometry Count = 0	(0)
LAYER RH	TOTAL Original Geometry Count = 1	(3)
LAYER ESD3	TOTAL Original Geometry Count = 0	(0)
LAYER VARi	TOTAL Original Geometry Count = 0	(0)
LAYER APi	TOTAL Original Geometry Count = 0	(0)
LAYER Cu_PPIi	TOTAL Original Geometry Count = 0	(0)
LAYER CBMi	TOTAL Original Geometry Count = 0	(0)
LAYER CTMi	TOTAL Original Geometry Count = 0	(0)
LAYER RVi	TOTAL Original Geometry Count = 0	(0)
LAYER DCOi	TOTAL Original Geometry Count = 0	(0)
LAYER HVD_P	TOTAL Original Geometry Count = 0	(0)
LAYER HVD_N_nw	TOTAL Original Geometry Count = 0	(0)
LAYER BJTDMY	TOTAL Original Geometry Count = 0	(0)
LAYER LMARK	TOTAL Original Geometry Count = 0	(0)
LAYER SRM	TOTAL Original Geometry Count = 0	(0)
LAYER TCDDMY	TOTAL Original Geometry Count = 0	(0)
LAYER SRAMDMY_1	TOTAL Original Geometry Count = 0	(0)
LAYER OD1Ti	TOTAL Original Geometry Count = 0	(0)
LAYER CLDDi	TOTAL Original Geometry Count = 0	(0)
LAYER CROWNi	TOTAL Original Geometry Count = 0	(0)
LAYER P3i	TOTAL Original Geometry Count = 0	(0)
LAYER SNCTi	TOTAL Original Geometry Count = 0	(0)
LAYER LUPWDMY	TOTAL Original Geometry Count = 0	(0)
LAYER VDDDMY	TOTAL Original Geometry Count = 0	(0)
LAYER VSSDMY	TOTAL Original Geometry Count = 0	(0)
LAYER M1_real	TOTAL Original Geometry Count = 466	(1372)
LAYER DM1_0	TOTAL Original Geometry Count = 0	(0)
LAYER M2_real	TOTAL Original Geometry Count = 134	(409)
LAYER DM2_0	TOTAL Original Geometry Count = 0	(0)
LAYER M3_real	TOTAL Original Geometry Count = 159	(486)
LAYER DM3_0	TOTAL Original Geometry Count = 0	(0)
LAYER M4_real	TOTAL Original Geometry Count = 129	(396)
LAYER DM4_0	TOTAL Original Geometry Count = 0	(0)
LAYER M5_real	TOTAL Original Geometry Count = 159	(486)
LAYER DM5_0	TOTAL Original Geometry Count = 0	(0)
LAYER M6_real	TOTAL Original Geometry Count = 129	(396)
LAYER DM6_0	TOTAL Original Geometry Count = 0	(0)
LAYER M7_real	TOTAL Original Geometry Count = 159	(486)

LAYER DM7_0	TOTAL Original Geometry Count = 0	(0)
LAYER M8_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER DUM8_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER M9_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER DUM9_OLD	TOTAL Original Geometry Count = 0	(0)
LAYER mVTLi	TOTAL Original Geometry Count = 0	(0)
LAYER NCap_NTNi	TOTAL Original Geometry Count = 0	(0)
LAYER COi	TOTAL Original Geometry Count = 615	(2310)
LAYER VIA1i	TOTAL Original Geometry Count = 378	(2264)
LAYER VIA2i	TOTAL Original Geometry Count = 374	(2244)
LAYER VIA3i	TOTAL Original Geometry Count = 376	(2256)
LAYER VIA4i	TOTAL Original Geometry Count = 374	(2244)
LAYER VIA5i	TOTAL Original Geometry Count = 376	(2256)
LAYER VIA6i	TOTAL Original Geometry Count = 374	(2244)
LAYER WBDMY	TOTAL Original Geometry Count = 0	(0)
LAYER INDDMY	TOTAL Original Geometry Count = 0	(0)
LAYER NWDMY	TOTAL Original Geometry Count = 0	(0)
LAYER RFDMY	TOTAL Original Geometry Count = 0	(0)
LAYER RPDMY	TOTAL Original Geometry Count = 1	(3)
LAYER SDI	TOTAL Original Geometry Count = 0	(0)
LAYER PMDMY	TOTAL Original Geometry Count = 0	(0)
LAYER SEALRINGi	TOTAL Original Geometry Count = 0	(0)
LAYER LOGO	TOTAL Original Geometry Count = 0	(0)
LAYER CSRDMY	TOTAL Original Geometry Count = 0	(0)
LAYER OD25_33	TOTAL Original Geometry Count = 0	(0)
LAYER OD25_18	TOTAL Original Geometry Count = 0	(0)
LAYER POBLK	TOTAL Original Geometry Count = 0	(0)
LAYER ODBLK	TOTAL Original Geometry Count = 1	(3)
LAYER ESD2DMY	TOTAL Original Geometry Count = 0	(0)
LAYER ESD1DMY	TOTAL Original Geometry Count = 0	(0)
LAYER EMPTYi	TOTAL Original Geometry Count = 0	(0)
LAYER CTMDMY	TOTAL Original Geometry Count = 0	(0)
LAYER INDDMY_MD	TOTAL Original Geometry Count = 0	(0)
LAYER MOMDMY_2	TOTAL Original Geometry Count = 1	(3)
LAYER MOMDMY_1	TOTAL Original Geometry Count = 1	(3)
LAYER MOMDMY_3	TOTAL Original Geometry Count = 1	(3)
LAYER MOMDMY_4	TOTAL Original Geometry Count = 1	(3)
LAYER MOMDMY_5	TOTAL Original Geometry Count = 1	(3)
LAYER MOMDMY_6	TOTAL Original Geometry Count = 1	(3)
LAYER MOMDMY_7	TOTAL Original Geometry Count = 1	(3)
LAYER MOMDMY_8	TOTAL Original Geometry Count = 0	(0)
LAYER MOMDMY_9	TOTAL Original Geometry Count = 0	(0)
LAYER MOMDMY_AP	TOTAL Original Geometry Count = 0	(0)
LAYER INDDMY_COIL	TOTAL Original Geometry Count = 0	(0)
LAYER IND_CTAP	TOTAL Original Geometry Count = 0	(0)
LAYER DIODMY	TOTAL Original Geometry Count = 0	(0)
LAYER RRuleAnalog	TOTAL Original Geometry Count = 0	(0)
LAYER excludeRRuleAnalog ...	TOTAL Original Geometry Count = 0	(0)
LAYER SBDDMY	TOTAL Original Geometry Count = 0	(0)

LAYER CTMDMY_10	.....	TOTAL Original Geometry Count = 0	(0)
LAYER CTMDMY_15	.....	TOTAL Original Geometry Count = 0	(0)
LAYER CTMDMY_20	.....	TOTAL Original Geometry Count = 0	(0)
LAYER CDUDMY	.....	TOTAL Original Geometry Count = 0	(0)
LAYER CO_PUSH	.....	TOTAL Original Geometry Count = 0	(0)
LAYER RTMOMDMY	.....	TOTAL Original Geometry Count = 1	(3)
LAYER VIA7_OLD	.....	TOTAL Original Geometry Count = 0	(0)
LAYER VIA8_OLD	.....	TOTAL Original Geometry Count = 0	(0)
LAYER VIA9_OLD	.....	TOTAL Original Geometry Count = 0	(0)
LAYER RAM1TDMY	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM1	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM2	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM3	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM4	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM5	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM6	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM7	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM8	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEM9	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEOD	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOTUSEPO	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM1	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM2	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM3	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM4	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM5	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM6	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEM7	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV1	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV2	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV3	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV4	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV5	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NOUSEV6	.....	TOTAL Original Geometry Count = 0	(0)
LAYER NWi_OTHERS	.....	TOTAL Original Geometry Count = 0	(0)
LAYER ODi_OTHERS	.....	TOTAL Original Geometry Count = 0	(0)
LAYER ODi_SRAM	.....	TOTAL Original Geometry Count = 0	(0)
LAYER ODi_RFDRAIN	.....	TOTAL Original Geometry Count = 0	(0)
LAYER POi_OTHERS	.....	TOTAL Original Geometry Count = 0	(0)
LAYER POi_SRAM	.....	TOTAL Original Geometry Count = 0	(0)
LAYER COi_OTHERS	.....	TOTAL Original Geometry Count = 0	(0)
LAYER COi_SRAM	.....	TOTAL Original Geometry Count = 0	(0)
LAYER MOMDMY_ALL	.....	TOTAL Original Geometry Count = 8	(24)

--- RULECHECK RESULTS STATISTICS

RULECHECK G.1:UBMi	TOTAL Result Count = 0	(0)
RULECHECK G.1:CBDi	.....	TOTAL Result Count = 0	(0)
RULECHECK G.1:CB2i	.....	TOTAL Result Count = 0	(0)

RULECHECK G.1:PMi	TOTAL Result Count = 0 (0)
RULECHECK G.1:PM2i	TOTAL Result Count = 0 (0)
RULECHECK G.1:Cu_PPIi	TOTAL Result Count = 0 (0)
RULECHECK G.1:DNWi	TOTAL Result Count = 0 (0)
RULECHECK G.1:NWi	TOTAL Result Count = 0 (0)
RULECHECK G.1:OD_18i	TOTAL Result Count = 0 (0)
RULECHECK G.1:OD_25i	TOTAL Result Count = 0 (0)
RULECHECK G.1:OD25_33	TOTAL Result Count = 0 (0)
RULECHECK G.1:OD25_18	TOTAL Result Count = 0 (0)
RULECHECK G.1:OD_33i	TOTAL Result Count = 0 (0)
RULECHECK G.1:OD_DECAP	TOTAL Result Count = 0 (0)
RULECHECK G.1:PPi	TOTAL Result Count = 0 (0)
RULECHECK G.1:NPi	TOTAL Result Count = 0 (0)
RULECHECK G.1:CBi	TOTAL Result Count = 0 (0)
RULECHECK G.1:RPOi	TOTAL Result Count = 0 (0)
RULECHECK G.1:NT_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.1:NCap_NTNi	TOTAL Result Count = 0 (0)
RULECHECK G.1:FWALi	TOTAL Result Count = 0 (0)
RULECHECK G.1:FWCui	TOTAL Result Count = 0 (0)
RULECHECK G.1:POFUSE	TOTAL Result Count = 0 (0)
RULECHECK G.1:FUSELINK	TOTAL Result Count = 0 (0)
RULECHECK G.1:PM1i	TOTAL Result Count = 0 (0)
RULECHECK G.1:SEALRINGi	TOTAL Result Count = 0 (0)
RULECHECK G.1:VTH_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.1:VTH_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.1:VTL_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.1:VTL_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.1:UHVT_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.1:UHVT_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.1:RH	TOTAL Result Count = 0 (0)
RULECHECK G.1:ESD3	TOTAL Result Count = 0 (0)
RULECHECK G.1:VARi	TOTAL Result Count = 0 (0)
RULECHECK G.1:APi	TOTAL Result Count = 0 (0)
RULECHECK G.1:CBMi	TOTAL Result Count = 0 (0)
RULECHECK G.1:CTMi	TOTAL Result Count = 0 (0)
RULECHECK G.1:RVi	TOTAL Result Count = 0 (0)
RULECHECK G.1:DCOi	TOTAL Result Count = 0 (0)
RULECHECK G.1:HVD_P	TOTAL Result Count = 0 (0)
RULECHECK G.1:HVD_N_nw	TOTAL Result Count = 0 (0)
RULECHECK G.1:BJTDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:NWDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:RPDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:PMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:SDI	TOTAL Result Count = 0 (0)
RULECHECK G.1:ESD1DMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:ESD2DMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:SRM	TOTAL Result Count = 0 (0)
RULECHECK G.1:CDUDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:TCDDMY	TOTAL Result Count = 0 (0)

RULECHECK G.1:LOGO	TOTAL Result Count = 0 (0)
RULECHECK G.1:INDDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:CTMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:CTMDMY_10	TOTAL Result Count = 0 (0)
RULECHECK G.1:CTMDMY_15	TOTAL Result Count = 0 (0)
RULECHECK G.1:CTMDMY_20	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_1	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_2	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_3	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_4	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_5	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_6	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_7	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_8	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_9	TOTAL Result Count = 0 (0)
RULECHECK G.1:MOMDMY_AP	TOTAL Result Count = 0 (0)
RULECHECK G.1:RTMOMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:RFDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:WBDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:DIODMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:SRAMDMY_4	TOTAL Result Count = 0 (0)
RULECHECK G.1:SRAMDMY_5	TOTAL Result Count = 0 (0)
RULECHECK G.1:SRAMDMY_1	TOTAL Result Count = 0 (0)
RULECHECK G.1:OD1Ti	TOTAL Result Count = 0 (0)
RULECHECK G.1:CLDDi	TOTAL Result Count = 0 (0)
RULECHECK G.1:CROWNi	TOTAL Result Count = 0 (0)
RULECHECK G.1:P3i	TOTAL Result Count = 0 (0)
RULECHECK G.1:SNCTi	TOTAL Result Count = 0 (0)
RULECHECK G.1:LUPWDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:VDDDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:VSSDMY	TOTAL Result Count = 0 (0)
RULECHECK G.1:M1i	TOTAL Result Count = 0 (0)
RULECHECK G.1:M1_real	TOTAL Result Count = 0 (0)
RULECHECK G.1:DM1_0	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM1	TOTAL Result Count = 0 (0)
RULECHECK G.1:M2i	TOTAL Result Count = 0 (0)
RULECHECK G.1:M2_real	TOTAL Result Count = 0 (0)
RULECHECK G.1:DM2_0	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM2	TOTAL Result Count = 0 (0)
RULECHECK G.1:M3i	TOTAL Result Count = 0 (0)
RULECHECK G.1:M3_real	TOTAL Result Count = 0 (0)
RULECHECK G.1:DM3_0	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM3	TOTAL Result Count = 0 (0)
RULECHECK G.1:M4i	TOTAL Result Count = 0 (0)
RULECHECK G.1:M4_real	TOTAL Result Count = 0 (0)
RULECHECK G.1:DM4_0	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM4	TOTAL Result Count = 0 (0)
RULECHECK G.1:M5i	TOTAL Result Count = 0 (0)

RULECHECK G.1:M5_real	TOTAL Result Count = 0 (0)
RULECHECK G.1:DM5_0	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM5	TOTAL Result Count = 0 (0)
RULECHECK G.1:M6i	TOTAL Result Count = 0 (0)
RULECHECK G.1:M6_real	TOTAL Result Count = 0 (0)
RULECHECK G.1:DM6_0	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM6	TOTAL Result Count = 0 (0)
RULECHECK G.1:M7i	TOTAL Result Count = 0 (0)
RULECHECK G.1:M7_real	TOTAL Result Count = 0 (0)
RULECHECK G.1:DM7_0	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM7	TOTAL Result Count = 0 (0)
RULECHECK G.1:M8_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.1:M8_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM8_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM8_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.1:M9_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.1:M9_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM9_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.1:DUM9_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA1i	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA2i	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA3i	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA4i	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA5i	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA6i	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA7_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA7_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA8_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA8_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA9_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.1:VIA9_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.1:ODi	TOTAL Result Count = 0 (0)
RULECHECK G.1:DOD	TOTAL Result Count = 0 (0)
RULECHECK G.1:DPO	TOTAL Result Count = 0 (0)
RULECHECK G.1:mVTLi	TOTAL Result Count = 0 (0)
RULECHECK G.1:CO	TOTAL Result Count = 0 (0)
RULECHECK G.1:PO	TOTAL Result Count = 0 (0)
RULECHECK G.2:DNWi	TOTAL Result Count = 0 (0)
RULECHECK G.2:NWi	TOTAL Result Count = 0 (0)
RULECHECK G.2:OD_18i	TOTAL Result Count = 0 (0)
RULECHECK G.2:OD_25i	TOTAL Result Count = 0 (0)
RULECHECK G.2:OD25_33	TOTAL Result Count = 0 (0)
RULECHECK G.2:OD25_18	TOTAL Result Count = 0 (0)
RULECHECK G.2:OD_33i	TOTAL Result Count = 0 (0)
RULECHECK G.2:OD_DECAP	TOTAL Result Count = 0 (0)
RULECHECK G.2:PPi	TOTAL Result Count = 0 (0)
RULECHECK G.2:NPi	TOTAL Result Count = 0 (0)
RULECHECK G.2:COi	TOTAL Result Count = 0 (0)
RULECHECK G.2:CO_PUSH	TOTAL Result Count = 0 (0)

RULECHECK G.2:CBi	TOTAL Result Count = 0 (0)
RULECHECK G.2:CB2i	TOTAL Result Count = 0 (0)
RULECHECK G.2:RPOi	TOTAL Result Count = 0 (0)
RULECHECK G.2:NT_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.2:NCap_NTNi	TOTAL Result Count = 0 (0)
RULECHECK G.2:FWALi	TOTAL Result Count = 0 (0)
RULECHECK G.2:FWCUi	TOTAL Result Count = 0 (0)
RULECHECK G.2:POFUSE	TOTAL Result Count = 0 (0)
RULECHECK G.2:FUSELINK	TOTAL Result Count = 0 (0)
RULECHECK G.2:PMi	TOTAL Result Count = 0 (0)
RULECHECK G.2:PM1i	TOTAL Result Count = 0 (0)
RULECHECK G.2:PM2i	TOTAL Result Count = 0 (0)
RULECHECK G.2:SEALRINGi	TOTAL Result Count = 0 (0)
RULECHECK G.2:VTH_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.2:VTH_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.2:VTL_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.2:VTL_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.2:UHVT_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.2:UHVT_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.2:CBDi	TOTAL Result Count = 0 (0)
RULECHECK G.2:UBMi	TOTAL Result Count = 0 (0)
RULECHECK G.2:RH	TOTAL Result Count = 0 (0)
RULECHECK G.2:ESD3	TOTAL Result Count = 0 (0)
RULECHECK G.2:VARi	TOTAL Result Count = 0 (0)
RULECHECK G.2:APi	TOTAL Result Count = 0 (0)
RULECHECK G.2:Cu_PPIi	TOTAL Result Count = 0 (0)
RULECHECK G.2:CBMi	TOTAL Result Count = 0 (0)
RULECHECK G.2:CTMi	TOTAL Result Count = 0 (0)
RULECHECK G.2:RVi	TOTAL Result Count = 0 (0)
RULECHECK G.2:DCOi	TOTAL Result Count = 0 (0)
RULECHECK G.2:HVD_P	TOTAL Result Count = 0 (0)
RULECHECK G.2:HVD_N_nw	TOTAL Result Count = 0 (0)
RULECHECK G.2:BJTDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:NWDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:RPDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:PMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:SDI	TOTAL Result Count = 0 (0)
RULECHECK G.2:ESD1DMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:ESD2DMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:SRM	TOTAL Result Count = 0 (0)
RULECHECK G.2:CDUDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:TCDDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:LOGO	TOTAL Result Count = 0 (0)
RULECHECK G.2:INDDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:CTMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.2:CTMDMY_10	TOTAL Result Count = 0 (0)
RULECHECK G.2:CTMDMY_15	TOTAL Result Count = 0 (0)
RULECHECK G.2:CTMDMY_20	TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_1	TOTAL Result Count = 0 (0)

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RULECHECK G.2:MOMDMY_2 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_3 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_4 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_5 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_6 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_7 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_8 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_9 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:MOMDMY_AP ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:RTMOMDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:RFDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:WBDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DIODMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:SRAMDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:SRAMDMY_4 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:SRAMDMY_5 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:SRAMDMY_1 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:RAM1TDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:OD1Ti ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:CLDDi ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:CROWNi ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:P3i ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:SNCTi ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:LUPWDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:VDDDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:VSSDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M1i ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M1_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DM1_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM1 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M2i ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M2_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DM2_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM2 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M3i ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M3_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DM3_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM3 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M4i ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M4_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DM4_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM4 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M5i ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M5_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DM5_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM5 ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M6i ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:M6_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.2:DM6_0 ..... TOTAL Result Count = 0 (0)

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RULECHECK G.2:DUM6	TOTAL Result Count = 0 (0)
RULECHECK G.2:M7i	TOTAL Result Count = 0 (0)
RULECHECK G.2:M7_real	TOTAL Result Count = 0 (0)
RULECHECK G.2:DM7_0	TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM7	TOTAL Result Count = 0 (0)
RULECHECK G.2:M8_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.2:M8_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM8_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM8_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.2:M9_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.2:M9_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM9_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.2:DUM9_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA1i	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA2i	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA3i	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA4i	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA5i	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA6i	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA7_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA7_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA8_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA8_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA9_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.2:VIA9_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.2:ODi	TOTAL Result Count = 0 (0)
RULECHECK G.2:DOD	TOTAL Result Count = 0 (0)
RULECHECK G.2:POi	TOTAL Result Count = 0 (0)
RULECHECK G.2:DPO	TOTAL Result Count = 0 (0)
RULECHECK G.2:mVTLi	TOTAL Result Count = 0 (0)
RULECHECK G.3:DNWi	TOTAL Result Count = 0 (0)
RULECHECK G.3:NWi	TOTAL Result Count = 0 (0)
RULECHECK G.3:OD_18i	TOTAL Result Count = 0 (0)
RULECHECK G.3:OD_25i	TOTAL Result Count = 0 (0)
RULECHECK G.3:OD25_33	TOTAL Result Count = 0 (0)
RULECHECK G.3:OD25_18	TOTAL Result Count = 0 (0)
RULECHECK G.3:OD_33i	TOTAL Result Count = 0 (0)
RULECHECK G.3:OD_DECAP	TOTAL Result Count = 0 (0)
RULECHECK G.3:PPi	TOTAL Result Count = 0 (0)
RULECHECK G.3:NPi	TOTAL Result Count = 0 (0)
RULECHECK G.3:COi	TOTAL Result Count = 0 (0)
RULECHECK G.3:CO_PUSH	TOTAL Result Count = 0 (0)
RULECHECK G.3:CBi	TOTAL Result Count = 0 (0)
RULECHECK G.3:RPOi	TOTAL Result Count = 0 (0)
RULECHECK G.3:NT_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.3:NCap_NTNi	TOTAL Result Count = 0 (0)
RULECHECK G.3:FWALi	TOTAL Result Count = 0 (0)
RULECHECK G.3:FWCUi	TOTAL Result Count = 0 (0)
RULECHECK G.3:POFUSE	TOTAL Result Count = 0 (0)

RULECHECK G.3:FUSELINK	TOTAL Result Count = 0 (0)
RULECHECK G.3:SEALRINGi	TOTAL Result Count = 0 (0)
RULECHECK G.3:VTH_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.3:VTH_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.3:VTL_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.3:VTL_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.3:UHVT_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.3:UHVT_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.3:RH	TOTAL Result Count = 0 (0)
RULECHECK G.3:ESD3	TOTAL Result Count = 0 (0)
RULECHECK G.3:VARi	TOTAL Result Count = 0 (0)
RULECHECK G.3:APi	TOTAL Result Count = 0 (0)
RULECHECK G.3:CBMi	TOTAL Result Count = 0 (0)
RULECHECK G.3:CTMi	TOTAL Result Count = 0 (0)
RULECHECK G.3:RVi	TOTAL Result Count = 0 (0)
RULECHECK G.3:DCOi	TOTAL Result Count = 0 (0)
RULECHECK G.3:HVD_P	TOTAL Result Count = 0 (0)
RULECHECK G.3:HVD_N_nw	TOTAL Result Count = 0 (0)
RULECHECK G.3:BJTDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:NWDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:RPDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:SDI	TOTAL Result Count = 0 (0)
RULECHECK G.3:ESD1DMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:ESD2DMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:SRM	TOTAL Result Count = 0 (0)
RULECHECK G.3:CDUDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:TCDDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:LOGO	TOTAL Result Count = 0 (0)
RULECHECK G.3:INDDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:CTDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:CTDMY_10	TOTAL Result Count = 0 (0)
RULECHECK G.3:CTDMY_15	TOTAL Result Count = 0 (0)
RULECHECK G.3:CTDMY_20	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_1	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_2	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_3	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_4	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_5	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_6	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_7	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_8	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_9	TOTAL Result Count = 0 (0)
RULECHECK G.3:MOMDMY_AP	TOTAL Result Count = 0 (0)
RULECHECK G.3:RTMOMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:RFDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:WBDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:DIODMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK G.3:SRAMDMY_4	TOTAL Result Count = 0 (0)


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RULECHECK G.3:SRAMDMY_5 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:SRAMDMY_1 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:RAM1TDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:OD1Ti ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:CLDDi ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:CROWNi ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:P3i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:SNCTi ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:LUPWDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:VDDDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:VSSDMY ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M1i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M1_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DM1_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM1 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M2i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M2_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DM2_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM2 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M3i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M3_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DM3_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM3 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M4i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M4_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DM4_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM4 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M5i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M5_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DM5_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM5 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M6i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M6_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DM6_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM6 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M7i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M7_real ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DM7_0 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM7 ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M8_OLD ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M8_NEW ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM8_OLD ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM8_NEW ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M9_OLD ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:M9_NEW ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM9_OLD ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:DUM9_NEW ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA1i ..... TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA2i ..... TOTAL Result Count = 0 (0)

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RULECHECK G.3:VIA3i	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA4i	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA5i	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA6i	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA7_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA7_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA8_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA8_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA9_OLD	TOTAL Result Count = 0 (0)
RULECHECK G.3:VIA9_NEW	TOTAL Result Count = 0 (0)
RULECHECK G.3:ODi	TOTAL Result Count = 0 (0)
RULECHECK G.3:DOD	TOTAL Result Count = 0 (0)
RULECHECK G.3:POi	TOTAL Result Count = 0 (0)
RULECHECK G.3:DPO	TOTAL Result Count = 0 (0)
RULECHECK G.3:mVTLi	TOTAL Result Count = 0 (0)
RULECHECK G.4:ODi	TOTAL Result Count = 0 (0)
RULECHECK G.4:POi	TOTAL Result Count = 0 (0)
RULECHECK G.4:VTH_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.4:VTH_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.4:VTL_Ni	TOTAL Result Count = 0 (0)
RULECHECK G.4:VTL_Pi	TOTAL Result Count = 0 (0)
RULECHECK G.4:PPi	TOTAL Result Count = 0 (0)
RULECHECK G.4:NPi	TOTAL Result Count = 0 (0)
RULECHECK G.4:M1i	TOTAL Result Count = 0 (0)
RULECHECK G.4:M2i	TOTAL Result Count = 0 (0)
RULECHECK G.4:M3i	TOTAL Result Count = 0 (0)
RULECHECK G.4:M4i	TOTAL Result Count = 0 (0)
RULECHECK G.4:M5i	TOTAL Result Count = 0 (0)
RULECHECK G.4:M6i	TOTAL Result Count = 0 (0)
RULECHECK G.4:M7i	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM1	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM2	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM3	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM4	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM5	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM6	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM7	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM8	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEM9	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEOD	TOTAL Result Count = 0 (0)
RULECHECK G.5:NOTUSEPO	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M1	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M2	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M3	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M4	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M5	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M6	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M7	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.M8	TOTAL Result Count = 0 (0)

RULECHECK USER_GUIDE.M9	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA1	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA2	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA3	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA4	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA5	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA6	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA7	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.VIA8	TOTAL Result Count = 0 (0)
RULECHECK USER_GUIDE.2	TOTAL Result Count = 0 (0)
RULECHECK NW_DATATYPE:WARNING1	TOTAL Result Count = 0 (0)
RULECHECK OD_DATATYPE:WARNING1	TOTAL Result Count = 0 (0)
RULECHECK OD_DATATYPE:WARNING2	TOTAL Result Count = 0 (0)
RULECHECK OD_DATATYPE:WARNING3	TOTAL Result Count = 0 (0)
RULECHECK PO_DATATYPE:WARNING1	TOTAL Result Count = 0 (0)
RULECHECK PO_DATATYPE:WARNING2	TOTAL Result Count = 0 (0)
RULECHECK CO_DATATYPE:WARNING1	TOTAL Result Count = 0 (0)
RULECHECK CO_DATATYPE:WARNING2	TOTAL Result Count = 0 (0)
RULECHECK NW.W.1	TOTAL Result Count = 0 (0)
RULECHECK NW.S.1	TOTAL Result Count = 0 (0)
RULECHECK NW.S.2	TOTAL Result Count = 0 (0)
RULECHECK NW.S.3	TOTAL Result Count = 0 (0)
RULECHECK NW.S.4	TOTAL Result Count = 0 (0)
RULECHECK NW.S.5	TOTAL Result Count = 0 (0)
RULECHECK NW.S.6	TOTAL Result Count = 0 (0)
RULECHECK NW.S.7	TOTAL Result Count = 0 (0)
RULECHECK NW.EN.1	TOTAL Result Count = 0 (0)
RULECHECK NW.EN.2	TOTAL Result Count = 0 (0)
RULECHECK NW.EN.3	TOTAL Result Count = 0 (0)
RULECHECK NW.A.1	TOTAL Result Count = 0 (0)
RULECHECK NW.A.2	TOTAL Result Count = 0 (0)
RULECHECK NW.A.3	TOTAL Result Count = 0 (0)
RULECHECK NW.A.4	TOTAL Result Count = 0 (0)
RULECHECK NWROD.W.1	TOTAL Result Count = 0 (0)
RULECHECK NWROD.S.1	TOTAL Result Count = 0 (0)
RULECHECK NWROD.S.2	TOTAL Result Count = 0 (0)
RULECHECK NWROD.EN.1	TOTAL Result Count = 0 (0)
RULECHECK NWROD.EN.2	TOTAL Result Count = 0 (0)
RULECHECK NWROD.O.1	TOTAL Result Count = 0 (0)
RULECHECK NWROD.O.2	TOTAL Result Count = 0 (0)
RULECHECK NWROD.R.4	TOTAL Result Count = 0 (0)
RULECHECK NWROD.R.5	TOTAL Result Count = 0 (0)
RULECHECK NWROD.R.6	TOTAL Result Count = 0 (0)
RULECHECK NWROD.R.7	TOTAL Result Count = 0 (0)
RULECHECK NWRSTI.EN.1	TOTAL Result Count = 0 (0)
RULECHECK NWRSTI.EN.2	TOTAL Result Count = 0 (0)
RULECHECK NWRSTI.EX.1	TOTAL Result Count = 0 (0)
RULECHECK NWRSTI.O.1	TOTAL Result Count = 0 (0)
RULECHECK NT_N.W.1	TOTAL Result Count = 0 (0)

RULECHECK NT_N.W.2.1	TOTAL Result Count = 0 (0)
RULECHECK NT_N.W.2.2	TOTAL Result Count = 0 (0)
RULECHECK NT_N.W.3	TOTAL Result Count = 0 (0)
RULECHECK NT_N.W.4	TOTAL Result Count = 0 (0)
RULECHECK NT_N.W.5	TOTAL Result Count = 0 (0)
RULECHECK NT_N.S.1	TOTAL Result Count = 0 (0)
RULECHECK NT_N.S.2	TOTAL Result Count = 0 (0)
RULECHECK NT_N.S.3	TOTAL Result Count = 0 (0)
RULECHECK NT_N.EN.1	TOTAL Result Count = 0 (0)
RULECHECK NT_N.EX.1	TOTAL Result Count = 0 (0)
RULECHECK NT_N.A.1	TOTAL Result Count = 0 (0)
RULECHECK NT_N.A.2	TOTAL Result Count = 0 (0)
RULECHECK NT_N.A.3	TOTAL Result Count = 0 (0)
RULECHECK NT_N.A.4	TOTAL Result Count = 0 (0)
RULECHECK NT_N.R.1	TOTAL Result Count = 0 (0)
RULECHECK NT_N.R.2	TOTAL Result Count = 0 (0)
RULECHECK NT_N.R.3	TOTAL Result Count = 0 (0)
RULECHECK DNW.W.1	TOTAL Result Count = 0 (0)
RULECHECK DNW.S.1	TOTAL Result Count = 0 (0)
RULECHECK DNW.S.2	TOTAL Result Count = 0 (0)
RULECHECK DNW.S.3	TOTAL Result Count = 0 (0)
RULECHECK DNW.S.4	TOTAL Result Count = 0 (0)
RULECHECK DNW.S.5	TOTAL Result Count = 0 (0)
RULECHECK DNW.EN.3	TOTAL Result Count = 0 (0)
RULECHECK DNW.O.1	TOTAL Result Count = 0 (0)
RULECHECK DNW.R.5	TOTAL Result Count = 0 (0)
RULECHECK OD.W.1	TOTAL Result Count = 0 (0)
RULECHECK OD.W.2	TOTAL Result Count = 0 (0)
RULECHECK OD.W.3	TOTAL Result Count = 0 (0)
RULECHECK OD.W.4	TOTAL Result Count = 0 (0)
RULECHECK OD.S.1	TOTAL Result Count = 0 (0)
RULECHECK OD.S.2	TOTAL Result Count = 0 (0)
RULECHECK OD.S.3	TOTAL Result Count = 0 (0)
RULECHECK OD.S.3.1	TOTAL Result Count = 0 (0)
RULECHECK OD.S.4	TOTAL Result Count = 0 (0)
RULECHECK OD.S.5	TOTAL Result Count = 0 (0)
RULECHECK OD.A.1	TOTAL Result Count = 0 (0)
RULECHECK OD.A.2	TOTAL Result Count = 0 (0)
RULECHECK OD.L.1	TOTAL Result Count = 0 (0)
RULECHECK OD.L.2	TOTAL Result Count = 0 (0)
RULECHECK OD.R.1	NOT EXECUTED
RULECHECK DOD.W.1	NOT EXECUTED
RULECHECK DOD.S.1	NOT EXECUTED
RULECHECK DOD.S.2	NOT EXECUTED
RULECHECK DOD.S.3	NOT EXECUTED
RULECHECK DOD.S.5	NOT EXECUTED
RULECHECK DOD.S.6	NOT EXECUTED
RULECHECK DOD.S.7	NOT EXECUTED
RULECHECK DOD.S.7.1	NOT EXECUTED

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RULECHECK DOD.S.8 ..... NOT EXECUTED
RULECHECK DOD.S.9 ..... NOT EXECUTED
RULECHECK DOD.S.10 ..... NOT EXECUTED
RULECHECK DOD.EN.1 ..... NOT EXECUTED
RULECHECK DOD.EN.2 ..... NOT EXECUTED
RULECHECK OD.DN.1:L ..... NOT EXECUTED
RULECHECK OD.DN.1:H ..... NOT EXECUTED
RULECHECK OD.DN.2:L ..... NOT EXECUTED
RULECHECK OD.DN.2:H_IO ..... NOT EXECUTED
RULECHECK OD.DN.2:H_CORE ..... NOT EXECUTED
RULECHECK OD.DN.3:L ..... NOT EXECUTED
RULECHECK OD.DN.3:H_IO ..... NOT EXECUTED
RULECHECK OD.DN.3:H_CORE ..... NOT EXECUTED
RULECHECK DOD.R.1 ..... NOT EXECUTED
RULECHECK DOD.R.3 ..... NOT EXECUTED
RULECHECK OD2.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.S.6 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.S.7 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.EX.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.EX.2 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.EX.3 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.O.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD2.R.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD25_33.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD25_33.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK OD25_33.R.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD25_18.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK OD25_18.R.1 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.W.3 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.W.4 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.W.5 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.2.1 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.4.1 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.6 ..... TOTAL Result Count = 0 (0)
RULECHECK PO.S.7 ..... TOTAL Result Count = 0 (0)

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RULECHECK PO.S.9	TOTAL Result Count = 0 (0)
RULECHECK PO.S.10	TOTAL Result Count = 0 (0)
RULECHECK PO.S.15	NOT EXECUTED
RULECHECK PO.S.16	TOTAL Result Count = 0 (0)
RULECHECK PO.EX.1	TOTAL Result Count = 0 (0)
RULECHECK PO.EX.2	TOTAL Result Count = 0 (0)
RULECHECK PO.EX.3	TOTAL Result Count = 0 (0)
RULECHECK PO.L.1	TOTAL Result Count = 0 (0)
RULECHECK PO.A.1	TOTAL Result Count = 0 (0)
RULECHECK PO.A.1.1	TOTAL Result Count = 0 (0)
RULECHECK PO.A.2	TOTAL Result Count = 0 (0)
RULECHECK PO.DN.1:L	NOT EXECUTED
RULECHECK PO.DN.1:H	NOT EXECUTED
RULECHECK PO.DN.2	NOT EXECUTED
RULECHECK PO.DN.3	NOT EXECUTED
RULECHECK PO.R.1	TOTAL Result Count = 0 (0)
RULECHECK PO.R.4	TOTAL Result Count = 0 (0)
RULECHECK PO.R.6	TOTAL Result Count = 0 (0)
RULECHECK PO.R.8	NOT EXECUTED
RULECHECK DPO.W.1	NOT EXECUTED
RULECHECK DPO.S.1	NOT EXECUTED
RULECHECK DPO.S.2	NOT EXECUTED
RULECHECK DPO.S.3	NOT EXECUTED
RULECHECK DPO.S.5	NOT EXECUTED
RULECHECK DPO.S.6	NOT EXECUTED
RULECHECK DPO.S.6.1	NOT EXECUTED
RULECHECK DPO.S.8	NOT EXECUTED
RULECHECK DPO.S.9	NOT EXECUTED
RULECHECK DPO.EN.1	NOT EXECUTED
RULECHECK DPO.R.1	NOT EXECUTED
RULECHECK DPO.R.3	NOT EXECUTED
RULECHECK DTCD.W.1	TOTAL Result Count = 0 (0)
RULECHECK DTCD.R.1	TOTAL Result Count = 0 (0)
RULECHECK DTCD.R.2	TOTAL Result Count = 0 (0)
RULECHECK DTCD.R.3	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.W.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.S.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.S.2_VTH_N.S.2.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.S.3	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.EN.1_VTH_N.EN.2	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.A.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.A.2	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.R.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_N.R.2	TOTAL Result Count = 0 (0)
RULECHECK VTH_P.W.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_P.S.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_P.S.2_VTH_P.S.2.1	TOTAL Result Count = 0 (0)
RULECHECK VTH_P.S.3	TOTAL Result Count = 0 (0)
RULECHECK VTH_P.EN.1_VTH_P.EN.2	TOTAL Result Count = 0 (0)

RULECHECK	VTH_P.A.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTH_P.A.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTH_P.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTH_P.R.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.W.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.S.2_VTL_N.S.2.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.S.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.EN.1_VTL_N.EN.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.A.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.A.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_N.R.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.W.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.S.2_VTL_P.S.2.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.S.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.EN.1_VTL_P.EN.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.A.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.A.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	VTL_P.R.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	mVTL.EN.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	mVTL.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	mVTL.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.W.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.S.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.S.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.S.5	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.S.6	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.S.7	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.EN.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.EX.1	.....	NOT EXECUTED
RULECHECK	PP.EX.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.EX.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.EX.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.O.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.A.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.A.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.A.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	PP.R.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	NP.W.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	NP.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	NP.S.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	NP.S.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	NP.S.5	.....	TOTAL Result Count = 0 (0)
RULECHECK	NP.S.6	.....	TOTAL Result Count = 0 (0)

RULECHECK NP.S.7	TOTAL Result Count = 0 (0)
RULECHECK NP.EX.1	TOTAL Result Count = 0 (0)
RULECHECK NP.EX.2	TOTAL Result Count = 0 (0)
RULECHECK NP.EX.3	TOTAL Result Count = 0 (0)
RULECHECK NP.EX.4	TOTAL Result Count = 0 (0)
RULECHECK NP.O.1	TOTAL Result Count = 0 (0)
RULECHECK NP.A.1	TOTAL Result Count = 0 (0)
RULECHECK NP.A.2	TOTAL Result Count = 0 (0)
RULECHECK NP.A.3	TOTAL Result Count = 0 (0)
RULECHECK NP.R.1	TOTAL Result Count = 0 (0)
RULECHECK LDN.EX.1	TOTAL Result Count = 0 (0)
RULECHECK LDN.EX.1:DCO	TOTAL Result Count = 0 (0)
RULECHECK LDN.O.1	TOTAL Result Count = 0 (0)
RULECHECK LDP.EX.1	TOTAL Result Count = 0 (0)
RULECHECK LDP.EX.1:DCO	TOTAL Result Count = 0 (0)
RULECHECK LDP.O.2	TOTAL Result Count = 0 (0)
RULECHECK VT.S.1	TOTAL Result Count = 0 (0)
RULECHECK VT.EX.2	TOTAL Result Count = 0 (0)
RULECHECK RPO.W.1	TOTAL Result Count = 0 (0)
RULECHECK RPO.S.1	TOTAL Result Count = 0 (0)
RULECHECK RPO.S.2	TOTAL Result Count = 0 (0)
RULECHECK RPO.S.3	TOTAL Result Count = 0 (0)
RULECHECK RPO.S.4	TOTAL Result Count = 0 (0)
RULECHECK RPO.S.5	TOTAL Result Count = 0 (0)
RULECHECK RPO.EX.1	TOTAL Result Count = 0 (0)
RULECHECK RPO.EX.1.1	TOTAL Result Count = 0 (0)
RULECHECK RPO.EX.2	TOTAL Result Count = 0 (0)
RULECHECK RPO.A.1	TOTAL Result Count = 0 (0)
RULECHECK RPO.A.2	TOTAL Result Count = 0 (0)
RULECHECK RPO.R.1	TOTAL Result Count = 0 (0)
RULECHECK RES.8	TOTAL Result Count = 0 (0)
RULECHECK RES.10	TOTAL Result Count = 0 (0)
RULECHECK RES.11	TOTAL Result Count = 0 (0)
RULECHECK RES.21	TOTAL Result Count = 0 (0)
RULECHECK RES.22	TOTAL Result Count = 0 (0)
RULECHECK RES.12g	TOTAL Result Count = 0 (0)
RULECHECK RES.13g	TOTAL Result Count = 0 (0)
RULECHECK VAR.W.1	TOTAL Result Count = 0 (0)
RULECHECK VAR.W.4	TOTAL Result Count = 0 (0)
RULECHECK VAR.S.1	TOTAL Result Count = 0 (0)
RULECHECK VAR.EN.1	TOTAL Result Count = 0 (0)
RULECHECK VAR.R.1	TOTAL Result Count = 0 (0)
RULECHECK VAR.R.2	NOT EXECUTED
RULECHECK VAR.R.3	NOT EXECUTED
RULECHECK VAR.R.4	TOTAL Result Count = 0 (0)
RULECHECK VAR.R.5	NOT EXECUTED
RULECHECK HVD_N.W.1	TOTAL Result Count = 0 (0)
RULECHECK HVD_N.W.2	TOTAL Result Count = 0 (0)
RULECHECK HVD_N.S.1	TOTAL Result Count = 0 (0)

RULECHECK	HVD_N.S.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.S.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.S.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.S.5	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.S.6	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.EX.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.O.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.L.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.A.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.A.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.R.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.R.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.R.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_N.R.6	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.W.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.W.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.S.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.S.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.S.5	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.EX.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.EN.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.O.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.L.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.A.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.A.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.R.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.R.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.R.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	HVD_P.R.6	.....	TOTAL Result Count = 0 (0)
RULECHECK	GR.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	GR.R.7__GR.R.8	.....	TOTAL Result Count = 0 (0)
RULECHECK	GR.R.10__GR.R.11	.....	TOTAL Result Count = 0 (0)
RULECHECK	GR.R.13	.....	TOTAL Result Count = 0 (0)
RULECHECK	GR.R.14	.....	TOTAL Result Count = 0 (0)
RULECHECK	BV.W.1g	.....	TOTAL Result Count = 0 (0)
RULECHECK	BV.W.2g	.....	TOTAL Result Count = 0 (0)
RULECHECK	BV.R.1g	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.W.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.W.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.S.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.S.2.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.S.2.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.S.3	.....	TOTAL Result Count = 0 (0)
RULECHECK	CO.S.4	TOTAL Result Count = 0 (0)
RULECHECK	CO.S.5	TOTAL Result Count = 0 (0)

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RULECHECK CO.S.6 ..... NOT EXECUTED
RULECHECK CO.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK CO.EN.1.1 ..... TOTAL Result Count = 0 (0)
RULECHECK CO.EN.2 ..... TOTAL Result Count = 0 (0)
RULECHECK CO.EN.3_CO.EN.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.W.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.S.2.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.S.6 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.EN.2_M1.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.EN.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.A.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.A.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M1.DN.1 ..... NOT EXECUTED
RULECHECK M1.DN.1.1 ..... NOT EXECUTED
RULECHECK M1.DN.2 ..... NOT EXECUTED
RULECHECK M1.DN.4 ..... NOT EXECUTED
RULECHECK VIA1.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.EN.2_VIA1.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.2_VIA1.R.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.4:M1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.4:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.5:M1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.5:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.6:M1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.6:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA1.R.11 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.W.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.S.2.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK M2.EN.1 ..... TOTAL Result Count = 0 (0)

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RULECHECK M2.EN.2_M2.EN.3 TOTAL Result Count = 0 (0)
 RULECHECK M2.A.1 TOTAL Result Count = 0 (0)
 RULECHECK M2.A.2 TOTAL Result Count = 0 (0)
 RULECHECK M2.S.6 TOTAL Result Count = 0 (0)
 RULECHECK M2.DN.1 NOT EXECUTED
 RULECHECK M2.DN.1.1 NOT EXECUTED
 RULECHECK M2.DN.2 NOT EXECUTED
 RULECHECK M2.DN.4 NOT EXECUTED
 RULECHECK VIA2.W.1 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.W.2 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.S.1 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.S.2 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.S.3 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.EN.1 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.EN.2_VIA2.EN.3 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.2_VIA2.R.3 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.4:M2 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.4:M3 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.5:M2 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.5:M3 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.6:M2 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.6:M3 TOTAL Result Count = 0 (0)
 RULECHECK VIA2.R.11 TOTAL Result Count = 0 (0)
 RULECHECK M3.W.1 TOTAL Result Count = 0 (0)
 RULECHECK M3.W.2 TOTAL Result Count = 0 (0)
 RULECHECK M3.W.3 TOTAL Result Count = 0 (0)
 RULECHECK M3.S.1 TOTAL Result Count = 0 (0)
 RULECHECK M3.S.2 TOTAL Result Count = 0 (0)
 RULECHECK M3.S.2.1 TOTAL Result Count = 0 (0)
 RULECHECK M3.S.3 TOTAL Result Count = 0 (0)
 RULECHECK M3.S.4 TOTAL Result Count = 0 (0)
 RULECHECK M3.S.5 TOTAL Result Count = 0 (0)
 RULECHECK M3.EN.1 TOTAL Result Count = 0 (0)
 RULECHECK M3.EN.2_M3.EN.3 TOTAL Result Count = 0 (0)
 RULECHECK M3.A.1 TOTAL Result Count = 0 (0)
 RULECHECK M3.A.2 TOTAL Result Count = 0 (0)
 RULECHECK M3.S.6 TOTAL Result Count = 0 (0)
 RULECHECK M3.DN.1 NOT EXECUTED
 RULECHECK M3.DN.1.1 NOT EXECUTED
 RULECHECK M3.DN.2 NOT EXECUTED
 RULECHECK M3.DN.4 NOT EXECUTED
 RULECHECK M1.DN.5 NOT EXECUTED
 RULECHECK M1.DN.6 TOTAL Result Count = 0 (0)
 RULECHECK VIA3.W.1 TOTAL Result Count = 0 (0)
 RULECHECK VIA3.W.2 TOTAL Result Count = 0 (0)
 RULECHECK VIA3.S.1 TOTAL Result Count = 0 (0)
 RULECHECK VIA3.S.2 TOTAL Result Count = 0 (0)
 RULECHECK VIA3.S.3 TOTAL Result Count = 0 (0)
 RULECHECK VIA3.EN.1 TOTAL Result Count = 0 (0)

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RULECHECK VIA3.EN.2_VIA3.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.2_VIA3.R.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.4:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.4:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.5:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.5:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.6:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.6:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA3.R.11 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.W.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.S.2.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.EN.2_M4.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.A.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.A.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.S.6 ..... TOTAL Result Count = 0 (0)
RULECHECK M4.DN.1 ..... NOT EXECUTED
RULECHECK M4.DN.1.1 ..... NOT EXECUTED
RULECHECK M4.DN.2 ..... NOT EXECUTED
RULECHECK M4.DN.4 ..... NOT EXECUTED
RULECHECK M2.DN.5 ..... NOT EXECUTED
RULECHECK M2.DN.6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.EN.2_VIA4.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.2_VIA4.R.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.4:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.4:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.5:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.5:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.6:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.6:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA4.R.11 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.W.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.S.2 ..... TOTAL Result Count = 0 (0)

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RULECHECK M5.S.2.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.EN.2__M5.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.A.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.A.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.S.6 ..... TOTAL Result Count = 0 (0)
RULECHECK M5.DN.1 ..... NOT EXECUTED
RULECHECK M5.DN.1.1 ..... NOT EXECUTED
RULECHECK M5.DN.2 ..... NOT EXECUTED
RULECHECK M5.DN.4 ..... NOT EXECUTED
RULECHECK M3.DN.5 ..... NOT EXECUTED
RULECHECK M3.DN.6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.EN.2__VIA5.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.2__VIA5.R.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.4:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.4:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.5:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.5:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.6:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.6:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA5.R.11 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.W.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.S.2.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.EN.2__M6.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.A.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.A.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.S.6 ..... TOTAL Result Count = 0 (0)
RULECHECK M6.DN.1 ..... NOT EXECUTED
RULECHECK M6.DN.1.1 ..... NOT EXECUTED
RULECHECK M6.DN.2 ..... NOT EXECUTED
RULECHECK M6.DN.4 ..... NOT EXECUTED
RULECHECK M4.DN.5 ..... NOT EXECUTED

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RULECHECK M4.DN.6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.EN.2_VIA6.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.2_VIA6.R.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.4:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.4:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.5:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.5:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.6:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.6:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA6.R.11 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.W.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.S.2.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.S.5 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.EN.2_M7.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.A.1 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.A.2 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.S.6 ..... TOTAL Result Count = 0 (0)
RULECHECK M7.DN.1 ..... NOT EXECUTED
RULECHECK M7.DN.1.1 ..... NOT EXECUTED
RULECHECK M7.DN.2 ..... NOT EXECUTED
RULECHECK M7.DN.4 ..... NOT EXECUTED
RULECHECK M5.DN.5 ..... NOT EXECUTED
RULECHECK M5.DN.6 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.EN.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.R.2 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.R.3:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.R.3:M8 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.EN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.EN.4 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.S.3 ..... TOTAL Result Count = 0 (0)
RULECHECK VIA7.S.4 ..... TOTAL Result Count = 0 (0)

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RULECHECK VIA7.S.5	TOTAL Result Count = 0 (0)
RULECHECK VIA7.R.7	TOTAL Result Count = 0 (0)
RULECHECK M8.W.1	TOTAL Result Count = 0 (0)
RULECHECK M8.W.2	TOTAL Result Count = 0 (0)
RULECHECK M8.S.1	TOTAL Result Count = 0 (0)
RULECHECK M8.S.2	TOTAL Result Count = 0 (0)
RULECHECK M8.S.3	TOTAL Result Count = 0 (0)
RULECHECK M8.EN.1	TOTAL Result Count = 0 (0)
RULECHECK M8.EN.2	TOTAL Result Count = 0 (0)
RULECHECK M8.A.1	TOTAL Result Count = 0 (0)
RULECHECK M8.A.2	TOTAL Result Count = 0 (0)
RULECHECK M8.DN.1	NOT EXECUTED
RULECHECK M8.DN.1.1	NOT EXECUTED
RULECHECK M8.DN.2	NOT EXECUTED
RULECHECK M8.DN.4	NOT EXECUTED
RULECHECK M8.EN.3	TOTAL Result Count = 0 (0)
RULECHECK M8.DN.5:L	NOT EXECUTED
RULECHECK M8.DN.5:H	NOT EXECUTED
RULECHECK M8.W.4	TOTAL Result Count = 0 (0)
RULECHECK M8.S.4	TOTAL Result Count = 0 (0)
RULECHECK VIA8.W.1	TOTAL Result Count = 0 (0)
RULECHECK VIA8.W.2	TOTAL Result Count = 0 (0)
RULECHECK VIA8.S.1	TOTAL Result Count = 0 (0)
RULECHECK VIA8.S.2	TOTAL Result Count = 0 (0)
RULECHECK VIA8.EN.5	TOTAL Result Count = 0 (0)
RULECHECK VIA8.R.8	TOTAL Result Count = 0 (0)
RULECHECK VIA8.R.3:M8	TOTAL Result Count = 0 (0)
RULECHECK VIA8.R.3:M9	TOTAL Result Count = 0 (0)
RULECHECK M9.W.1	TOTAL Result Count = 0 (0)
RULECHECK M9.W.2	TOTAL Result Count = 0 (0)
RULECHECK M9.S.1	TOTAL Result Count = 0 (0)
RULECHECK M9.EN.1	TOTAL Result Count = 0 (0)
RULECHECK M9.A.1	TOTAL Result Count = 0 (0)
RULECHECK M9.A.2	TOTAL Result Count = 0 (0)
RULECHECK M9.DN.1:L	NOT EXECUTED
RULECHECK M9.DN.1:H	NOT EXECUTED
RULECHECK M9.DN.2:L	NOT EXECUTED
RULECHECK M9.DN.2:H	NOT EXECUTED
RULECHECK CTM.W.1	TOTAL Result Count = 0 (0)
RULECHECK CTM.W.2	TOTAL Result Count = 0 (0)
RULECHECK CTM.S.1	TOTAL Result Count = 0 (0)
RULECHECK CTM.EN.1	TOTAL Result Count = 0 (0)
RULECHECK CTM.R.1	TOTAL Result Count = 0 (0)
RULECHECK CBM.W.1	TOTAL Result Count = 0 (0)
RULECHECK CBM.W.2	TOTAL Result Count = 0 (0)
RULECHECK CBM.S.1	TOTAL Result Count = 0 (0)
RULECHECK CBM.S.2	TOTAL Result Count = 0 (0)
RULECHECK CBM.S.3	TOTAL Result Count = 0 (0)
RULECHECK CBM.EN.2	TOTAL Result Count = 0 (0)

RULECHECK	CBM.R.1	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.1	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.2:M1	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.2:M2	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.2:M3	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.2:M4	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.2:M5	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.2:M6	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.2:M7	TOTAL Result Count = 0 (0)
RULECHECK	MOM.A.1	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.3:M1	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.3:M2	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.3:M3	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.3:M4	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.3:M5	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.3:M6	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.3:M7	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.4:VIA1	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.4:VIA2	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.4:VIA3	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.4:VIA4	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.4:VIA5	TOTAL Result Count = 0 (0)
RULECHECK	MOM.S.4:VIA6	TOTAL Result Count = 0 (0)
RULECHECK	MOM.A.2	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.1	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.2:M2	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.2:M3	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.2:M4	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.2:M5	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.2:M6	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.2:M7	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.3:M8	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.1	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.2:M2	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.2:M3	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.2:M4	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.2:M5	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.2:M6	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.2:M7	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.3:M8	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M1	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.5:M1	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M2	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.5:M2	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M3	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.5:M3	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M4	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.5:M4	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M5	TOTAL Result Count = 0 (0)

RULECHECK	IND.S.5:M5	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M6	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.5:M6	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M7	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.5:M7	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.4:M8	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.S.5:M8	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.4:M1	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.4:M2	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.4:M3	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.4:M4	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.4:M5	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.4:M6	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.4:M7	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.6:M8	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.6:M9	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.W.7	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M1	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M2	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M3	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M4	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M5	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M6	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M7	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M8	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.1:M9	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M1	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M2	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M3	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M4	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M5	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M6	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M7	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M8	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.8:M9	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.2__IND.R.3:VIA7	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.2__IND.R.3:VIA8	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.4	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.13	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.R.6	.....	TOTAL Result Count = 0 (0)
RULECHECK	IND.DN.6	.....	NOT EXECUTED
RULECHECK	IND.DN.9	.....	NOT EXECUTED
RULECHECK	IND.DN.7:M1	.....	NOT EXECUTED
RULECHECK	IND.DN.7:M2	.....	NOT EXECUTED
RULECHECK	IND.DN.7:M3	.....	NOT EXECUTED
RULECHECK	IND.DN.7:M4	NOT EXECUTED
RULECHECK	IND.DN.7:M5	NOT EXECUTED
RULECHECK	IND.DN.7:M6	NOT EXECUTED

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RULECHECK IND.DN.7:M7 ..... NOT EXECUTED
RULECHECK IND.DN.7:M8 ..... NOT EXECUTED
RULECHECK IND.DN.8:M1 ..... NOT EXECUTED
RULECHECK IND.DN.8:M2 ..... NOT EXECUTED
RULECHECK IND.DN.8:M3 ..... NOT EXECUTED
RULECHECK IND.DN.8:M4 ..... NOT EXECUTED
RULECHECK IND.DN.8:M5 ..... NOT EXECUTED
RULECHECK IND.DN.8:M6 ..... NOT EXECUTED
RULECHECK IND.DN.8:M7 ..... NOT EXECUTED
RULECHECK IND.DN.8:M8 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M1 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M1 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M2 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M2 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M3 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M3 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M4 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M4 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M5 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M5 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M6 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M6 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M7 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M7 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M8 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M8 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:L_M9 ..... NOT EXECUTED
RULECHECK IND_MD.DN.11:H_M9 ..... NOT EXECUTED
RULECHECK IND_MD.DN.10:M1 ..... NOT EXECUTED
RULECHECK IND_MD.DN.10:M2 ..... NOT EXECUTED
RULECHECK IND_MD.DN.10:M3 ..... NOT EXECUTED
RULECHECK IND_MD.DN.10:M4 ..... NOT EXECUTED
RULECHECK IND_MD.DN.10:M5 ..... NOT EXECUTED
RULECHECK IND_MD.DN.10:M6 ..... NOT EXECUTED
RULECHECK IND_MD.R.17:VIA1 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.17:VIA2 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.17:VIA3 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.17:VIA4 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.17:VIA5 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.17:VIA6 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.2:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.2:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.2:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.2:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.2:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.2:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.3:M8 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.4:M1 ..... TOTAL Result Count = 0 (0)

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RULECHECK IND_MD.W.4:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.4:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.4:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.4:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.4:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.4:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.W.7 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.2:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.2:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.2:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.2:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.2:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.2:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.3:M8 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M1 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M1 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.4:M8 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.S.5:M8 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.2__IND_MD.R.3:VIA7 ... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.2__IND_MD.R.3:VIA8 ... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M1 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M2 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M3 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M4 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M5 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M6 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M7 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M8 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.R.13:M9 ..... TOTAL Result Count = 0 (0)
RULECHECK IND_MD.DN.6 ..... NOT EXECUTED
RULECHECK IND_MD.DN.9 ..... NOT EXECUTED
RULECHECK IND_MD.DN.7:M1 ..... NOT EXECUTED
RULECHECK IND_MD.DN.7:M2 ..... NOT EXECUTED
RULECHECK IND_MD.DN.7:M3 ..... NOT EXECUTED
RULECHECK IND_MD.DN.7:M4 ..... NOT EXECUTED
RULECHECK IND_MD.DN.7:M5 ..... NOT EXECUTED

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RULECHECK	IND_MD.DN.7:M6	NOT EXECUTED
RULECHECK	IND_MD.DN.7:M7	NOT EXECUTED
RULECHECK	IND_MD.DN.7:M8	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M1	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M2	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M3	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M4	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M5	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M6	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M7	NOT EXECUTED
RULECHECK	IND_MD.DN.8:M8	NOT EXECUTED
RULECHECK	CSR.R.1:DNWi	NOT EXECUTED
RULECHECK	CSR.R.1:NWi	NOT EXECUTED
RULECHECK	CSR.R.1:OD_18i	NOT EXECUTED
RULECHECK	CSR.R.1:OD_25i	NOT EXECUTED
RULECHECK	CSR.R.1:OD25_33	NOT EXECUTED
RULECHECK	CSR.R.1:OD25_18	NOT EXECUTED
RULECHECK	CSR.R.1:OD_33i	NOT EXECUTED
RULECHECK	CSR.R.1:OD_DECAP	NOT EXECUTED
RULECHECK	CSR.R.1:PPi	NOT EXECUTED
RULECHECK	CSR.R.1:NPi	NOT EXECUTED
RULECHECK	CSR.R.1:COi	NOT EXECUTED
RULECHECK	CSR.R.1:CO_PUSH	NOT EXECUTED
RULECHECK	CSR.R.1:CBi	NOT EXECUTED
RULECHECK	CSR.R.1:CB2i	NOT EXECUTED
RULECHECK	CSR.R.1:RP0i	NOT EXECUTED
RULECHECK	CSR.R.1:NT_Ni	NOT EXECUTED
RULECHECK	CSR.R.1:NCap_NTNi	NOT EXECUTED
RULECHECK	CSR.R.1:FWALi	NOT EXECUTED
RULECHECK	CSR.R.1:FWCui	NOT EXECUTED
RULECHECK	CSR.R.1:POFUSE	NOT EXECUTED
RULECHECK	CSR.R.1:FUSELINK	NOT EXECUTED
RULECHECK	CSR.R.1:PMi	NOT EXECUTED
RULECHECK	CSR.R.1:PM1i	NOT EXECUTED
RULECHECK	CSR.R.1:PM2i	NOT EXECUTED
RULECHECK	CSR.R.1:SEALRINGi	NOT EXECUTED
RULECHECK	CSR.R.1:VTH_Ni	NOT EXECUTED
RULECHECK	CSR.R.1:VTH_Pi	NOT EXECUTED
RULECHECK	CSR.R.1:VTL_Ni	NOT EXECUTED
RULECHECK	CSR.R.1:VTL_Pi	NOT EXECUTED
RULECHECK	CSR.R.1:UHVT_Ni	NOT EXECUTED
RULECHECK	CSR.R.1:UHVT_Pi	NOT EXECUTED
RULECHECK	CSR.R.1:CBDi	NOT EXECUTED
RULECHECK	CSR.R.1:UBMi	NOT EXECUTED
RULECHECK	CSR.R.1:RH	NOT EXECUTED
RULECHECK	CSR.R.1:ESD3	NOT EXECUTED
RULECHECK	CSR.R.1:VARi	NOT EXECUTED
RULECHECK	CSR.R.1:APi	NOT EXECUTED
RULECHECK	CSR.R.1:Cu_PPIi	NOT EXECUTED

RULECHECK	CSR.R.1:CBMi	NOT EXECUTED
RULECHECK	CSR.R.1:CTMi	NOT EXECUTED
RULECHECK	CSR.R.1:RVi	NOT EXECUTED
RULECHECK	CSR.R.1:DCOi	NOT EXECUTED
RULECHECK	CSR.R.1:HVD_P	NOT EXECUTED
RULECHECK	CSR.R.1:HVD_N_nw	NOT EXECUTED
RULECHECK	CSR.R.1:BJTDMY	NOT EXECUTED
RULECHECK	CSR.R.1:NWDMY	NOT EXECUTED
RULECHECK	CSR.R.1:RPDMY	NOT EXECUTED
RULECHECK	CSR.R.1:PMDMY	NOT EXECUTED
RULECHECK	CSR.R.1:SDI	NOT EXECUTED
RULECHECK	CSR.R.1:ESD1DMY	NOT EXECUTED
RULECHECK	CSR.R.1:ESD2DMY	NOT EXECUTED
RULECHECK	CSR.R.1:LMARK	NOT EXECUTED
RULECHECK	CSR.R.1:SRM	NOT EXECUTED
RULECHECK	CSR.R.1:CSRDMY	NOT EXECUTED
RULECHECK	CSR.R.1:CDUDMY	NOT EXECUTED
RULECHECK	CSR.R.1:TCDDMY	NOT EXECUTED
RULECHECK	CSR.R.1:LOGO	NOT EXECUTED
RULECHECK	CSR.R.1:INDDMY	NOT EXECUTED
RULECHECK	CSR.R.1:CTMDMY	NOT EXECUTED
RULECHECK	CSR.R.1:CTMDMY_10	NOT EXECUTED
RULECHECK	CSR.R.1:CTMDMY_15	NOT EXECUTED
RULECHECK	CSR.R.1:CTMDMY_20	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_1	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_2	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_3	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_4	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_5	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_6	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_7	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_8	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_9	NOT EXECUTED
RULECHECK	CSR.R.1:MOMDMY_AP	NOT EXECUTED
RULECHECK	CSR.R.1:RTMOMDMY	NOT EXECUTED
RULECHECK	CSR.R.1:RFDMY	NOT EXECUTED
RULECHECK	CSR.R.1:WBDMY	NOT EXECUTED
RULECHECK	CSR.R.1:DIODMY	NOT EXECUTED
RULECHECK	CSR.R.1:SRAMDMY	NOT EXECUTED
RULECHECK	CSR.R.1:SRAMDMY_4	NOT EXECUTED
RULECHECK	CSR.R.1:SRAMDMY_5	NOT EXECUTED
RULECHECK	CSR.R.1:SRAMDMY_1	NOT EXECUTED
RULECHECK	CSR.R.1:RAM1TDMY	NOT EXECUTED
RULECHECK	CSR.R.1:OD1Ti	NOT EXECUTED
RULECHECK	CSR.R.1:CLDDi	NOT EXECUTED
RULECHECK	CSR.R.1:CROWNi	NOT EXECUTED
RULECHECK	CSR.R.1:P3i	NOT EXECUTED
RULECHECK	CSR.R.1:SNCTi	NOT EXECUTED
RULECHECK	CSR.R.1:LUPWDMY	NOT EXECUTED

RULECHECK	CSR.R.1:VDDDMY	NOT EXECUTED
RULECHECK	CSR.R.1:VSSDMY	NOT EXECUTED
RULECHECK	CSR.R.1:M1i	NOT EXECUTED
RULECHECK	CSR.R.1:M1_real	NOT EXECUTED
RULECHECK	CSR.R.1:DM1_0	NOT EXECUTED
RULECHECK	CSR.R.1:DUM1	NOT EXECUTED
RULECHECK	CSR.R.1:M2i	NOT EXECUTED
RULECHECK	CSR.R.1:M2_real	NOT EXECUTED
RULECHECK	CSR.R.1:DM2_0	NOT EXECUTED
RULECHECK	CSR.R.1:DUM2	NOT EXECUTED
RULECHECK	CSR.R.1:M3i	NOT EXECUTED
RULECHECK	CSR.R.1:M3_real	NOT EXECUTED
RULECHECK	CSR.R.1:DM3_0	NOT EXECUTED
RULECHECK	CSR.R.1:DUM3	NOT EXECUTED
RULECHECK	CSR.R.1:M4i	NOT EXECUTED
RULECHECK	CSR.R.1:M4_real	NOT EXECUTED
RULECHECK	CSR.R.1:DM4_0	NOT EXECUTED
RULECHECK	CSR.R.1:DUM4	NOT EXECUTED
RULECHECK	CSR.R.1:M5i	NOT EXECUTED
RULECHECK	CSR.R.1:M5_real	NOT EXECUTED
RULECHECK	CSR.R.1:DM5_0	NOT EXECUTED
RULECHECK	CSR.R.1:DUM5	NOT EXECUTED
RULECHECK	CSR.R.1:M6i	NOT EXECUTED
RULECHECK	CSR.R.1:M6_real	NOT EXECUTED
RULECHECK	CSR.R.1:DM6_0	NOT EXECUTED
RULECHECK	CSR.R.1:DUM6	NOT EXECUTED
RULECHECK	CSR.R.1:M7i	NOT EXECUTED
RULECHECK	CSR.R.1:M7_real	NOT EXECUTED
RULECHECK	CSR.R.1:DM7_0	NOT EXECUTED
RULECHECK	CSR.R.1:DUM7	NOT EXECUTED
RULECHECK	CSR.R.1:M8_OLD	NOT EXECUTED
RULECHECK	CSR.R.1:M8_NEW	NOT EXECUTED
RULECHECK	CSR.R.1:DUM8_OLD	NOT EXECUTED
RULECHECK	CSR.R.1:DUM8_NEW	NOT EXECUTED
RULECHECK	CSR.R.1:M9_OLD	NOT EXECUTED
RULECHECK	CSR.R.1:M9_NEW	NOT EXECUTED
RULECHECK	CSR.R.1:DUM9_OLD	NOT EXECUTED
RULECHECK	CSR.R.1:DUM9_NEW	NOT EXECUTED
RULECHECK	CSR.R.1:VIA1i	NOT EXECUTED
RULECHECK	CSR.R.1:VIA2i	NOT EXECUTED
RULECHECK	CSR.R.1:VIA3i	NOT EXECUTED
RULECHECK	CSR.R.1:VIA4i	NOT EXECUTED
RULECHECK	CSR.R.1:VIA5i	NOT EXECUTED
RULECHECK	CSR.R.1:VIA6i	NOT EXECUTED
RULECHECK	CSR.R.1:VIA7_OLD	NOT EXECUTED
RULECHECK	CSR.R.1:VIA7_NEW	NOT EXECUTED
RULECHECK	CSR.R.1:VIA8_OLD	NOT EXECUTED
RULECHECK	CSR.R.1:VIA8_NEW	NOT EXECUTED
RULECHECK	CSR.R.1:VIA9_OLD	NOT EXECUTED

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RULECHECK CSR.R.1:VIA9_NEW ..... NOT EXECUTED
RULECHECK CSR.R.1:ODi ..... NOT EXECUTED
RULECHECK CSR.R.1:DOD ..... NOT EXECUTED
RULECHECK CSR.R.1:POi ..... NOT EXECUTED
RULECHECK CSR.R.1:DPO ..... NOT EXECUTED
RULECHECK CSR.R.1:mVTLi ..... NOT EXECUTED
RULECHECK CSR.R.1:INDDMY_COIL ..... NOT EXECUTED
RULECHECK CSR.R.1:INDDMY_MD ..... NOT EXECUTED
RULECHECK CSR.R.1:INDDMY_HD ..... NOT EXECUTED
RULECHECK CSR.R.2:A ..... NOT EXECUTED
RULECHECK CSR.R.2:B ..... NOT EXECUTED
RULECHECK CSR.R.2:C ..... NOT EXECUTED
RULECHECK CSR.R.2:D ..... NOT EXECUTED
RULECHECK CSR.R.2:E ..... NOT EXECUTED
RULECHECK CSR.R.2:F ..... NOT EXECUTED
RULECHECK CSR.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.S.2 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.2 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.S.4 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.4 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.R.3:CO ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA1 ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA2 ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA3 ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA4 ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA5 ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA6 ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA7 ..... NOT EXECUTED
RULECHECK CSR.R.3:VIA8 ..... NOT EXECUTED
RULECHECK CSR.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.W.2 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.L.1 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.5.1 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M1i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M2i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M3i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M4i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M5i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M6i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M7i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M8i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:M9i ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.6.1:APi ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.7:VIA1 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.7:VIA2 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.7:VIA3 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.7:VIA4 ..... TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.7:VIA5 ..... TOTAL Result Count = 0 (0)

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RULECHECK CSR.EN.7:VIA6	TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.7:VIA7	TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.7:VIA8	TOTAL Result Count = 0 (0)
RULECHECK CSR.EN.8	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M1	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M2	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M3	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M4	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M5	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M6	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M7	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M8	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:M9	TOTAL Result Count = 0 (0)
RULECHECK SR.S.1:AP	TOTAL Result Count = 0 (0)
RULECHECK SR.AP:WARNING	TOTAL Result Count = 0 (0)
RULECHECK SR.CB2:WARNING	TOTAL Result Count = 0 (0)
RULECHECK SR.CB:WARNING	TOTAL Result Count = 0 (0)
RULECHECK SR.CBD_RV:WARNING	TOTAL Result Count = 0 (0)
RULECHECK SR.UBM:WARNING	TOTAL Result Count = 0 (0)
RULECHECK SR.CO_VIA:WARNING	TOTAL Result Count = 0 (0)
RULECHECK SR.R.1	TOTAL Result Count = 0 (0)
RULECHECK SR.EN.1	TOTAL Result Count = 0 (0)
RULECHECK CDU.R.1	TOTAL Result Count = 0 (0)
RULECHECK CDU.R.2	TOTAL Result Count = 0 (0)
RULECHECK CDU:WARNING1	TOTAL Result Count = 0 (0)
RULECHECK CDU:WARNING2	TOTAL Result Count = 0 (0)
RULECHECK DM1.W.1	NOT EXECUTED
RULECHECK DM1.W.2	NOT EXECUTED
RULECHECK DM1.S.1	NOT EXECUTED
RULECHECK DM1.S.2	NOT EXECUTED
RULECHECK DM1.S.3	NOT EXECUTED
RULECHECK DM1.S.3.1	NOT EXECUTED
RULECHECK DM1.S.4	NOT EXECUTED
RULECHECK DM1.S.5	NOT EXECUTED
RULECHECK DM1.S.5.1	NOT EXECUTED
RULECHECK DM1.S.7	NOT EXECUTED
RULECHECK DM1.S.8	NOT EXECUTED
RULECHECK DM1.S.10	NOT EXECUTED
RULECHECK DM1.EN.1	NOT EXECUTED
RULECHECK DM1.A.1	NOT EXECUTED
RULECHECK DM1.A.2	NOT EXECUTED
RULECHECK DM1.R.1	NOT EXECUTED
RULECHECK DM1.R.3	NOT EXECUTED
RULECHECK DM1_O.R.1	NOT EXECUTED
RULECHECK DM2.W.1	NOT EXECUTED
RULECHECK DM2.W.2	NOT EXECUTED
RULECHECK DM2.S.1	NOT EXECUTED
RULECHECK DM2.S.2	NOT EXECUTED

RULECHECK	DM2.S.3	.....	NOT EXECUTED
RULECHECK	DM2.S.3.1	.....	NOT EXECUTED
RULECHECK	DM2.S.4	.....	NOT EXECUTED
RULECHECK	DM2.S.5	.....	NOT EXECUTED
RULECHECK	DM2.S.5.1	.....	NOT EXECUTED
RULECHECK	DM2.S.7	.....	NOT EXECUTED
RULECHECK	DM2.S.8	.....	NOT EXECUTED
RULECHECK	DM2.S.10	.....	NOT EXECUTED
RULECHECK	DM2.EN.1	.....	NOT EXECUTED
RULECHECK	DM2.A.1	.....	NOT EXECUTED
RULECHECK	DM2.A.2	.....	NOT EXECUTED
RULECHECK	DM2.R.1	.....	NOT EXECUTED
RULECHECK	DM2.R.3	.....	NOT EXECUTED
RULECHECK	DM2_O.R.1	.....	NOT EXECUTED
RULECHECK	DM3.W.1	.....	NOT EXECUTED
RULECHECK	DM3.W.2	.....	NOT EXECUTED
RULECHECK	DM3.S.1	.....	NOT EXECUTED
RULECHECK	DM3.S.2	.....	NOT EXECUTED
RULECHECK	DM3.S.3	.....	NOT EXECUTED
RULECHECK	DM3.S.3.1	.....	NOT EXECUTED
RULECHECK	DM3.S.4	.....	NOT EXECUTED
RULECHECK	DM3.S.5	.....	NOT EXECUTED
RULECHECK	DM3.S.5.1	.....	NOT EXECUTED
RULECHECK	DM3.S.7	.....	NOT EXECUTED
RULECHECK	DM3.S.8	.....	NOT EXECUTED
RULECHECK	DM3.S.10	.....	NOT EXECUTED
RULECHECK	DM3.EN.1	.....	NOT EXECUTED
RULECHECK	DM3.A.1	.....	NOT EXECUTED
RULECHECK	DM3.A.2	.....	NOT EXECUTED
RULECHECK	DM3.R.1	.....	NOT EXECUTED
RULECHECK	DM3.R.3	.....	NOT EXECUTED
RULECHECK	DM3_O.R.1	.....	NOT EXECUTED
RULECHECK	DM4.W.1	.....	NOT EXECUTED
RULECHECK	DM4.W.2	.....	NOT EXECUTED
RULECHECK	DM4.S.1	.....	NOT EXECUTED
RULECHECK	DM4.S.2	.....	NOT EXECUTED
RULECHECK	DM4.S.3	.....	NOT EXECUTED
RULECHECK	DM4.S.3.1	.....	NOT EXECUTED
RULECHECK	DM4.S.4	.....	NOT EXECUTED
RULECHECK	DM4.S.5	.....	NOT EXECUTED
RULECHECK	DM4.S.5.1	.....	NOT EXECUTED
RULECHECK	DM4.S.7	.....	NOT EXECUTED
RULECHECK	DM4.S.8	.....	NOT EXECUTED
RULECHECK	DM4.S.10	.....	NOT EXECUTED
RULECHECK	DM4.EN.1	.....	NOT EXECUTED
RULECHECK	DM4.A.1	.....	NOT EXECUTED
RULECHECK	DM4.A.2	.....	NOT EXECUTED
RULECHECK	DM4.R.1	.....	NOT EXECUTED
RULECHECK	DM4.R.3	.....	NOT EXECUTED

RULECHECK	DM4_O.R.1	NOT EXECUTED
RULECHECK	DM5.W.1	NOT EXECUTED
RULECHECK	DM5.W.2	NOT EXECUTED
RULECHECK	DM5.S.1	NOT EXECUTED
RULECHECK	DM5.S.2	NOT EXECUTED
RULECHECK	DM5.S.3	NOT EXECUTED
RULECHECK	DM5.S.3.1	NOT EXECUTED
RULECHECK	DM5.S.4	NOT EXECUTED
RULECHECK	DM5.S.5	NOT EXECUTED
RULECHECK	DM5.S.5.1	NOT EXECUTED
RULECHECK	DM5.S.7	NOT EXECUTED
RULECHECK	DM5.S.8	NOT EXECUTED
RULECHECK	DM5.S.10	NOT EXECUTED
RULECHECK	DM5.EN.1	NOT EXECUTED
RULECHECK	DM5.A.1	NOT EXECUTED
RULECHECK	DM5.A.2	NOT EXECUTED
RULECHECK	DM5.R.1	NOT EXECUTED
RULECHECK	DM5.R.3	NOT EXECUTED
RULECHECK	DM5_O.R.1	NOT EXECUTED
RULECHECK	DM6.W.1	NOT EXECUTED
RULECHECK	DM6.W.2	NOT EXECUTED
RULECHECK	DM6.S.1	NOT EXECUTED
RULECHECK	DM6.S.2	NOT EXECUTED
RULECHECK	DM6.S.3	NOT EXECUTED
RULECHECK	DM6.S.3.1	NOT EXECUTED
RULECHECK	DM6.S.4	NOT EXECUTED
RULECHECK	DM6.S.5	NOT EXECUTED
RULECHECK	DM6.S.5.1	NOT EXECUTED
RULECHECK	DM6.S.7	NOT EXECUTED
RULECHECK	DM6.S.8	NOT EXECUTED
RULECHECK	DM6.S.10	NOT EXECUTED
RULECHECK	DM6.EN.1	NOT EXECUTED
RULECHECK	DM6.A.1	NOT EXECUTED
RULECHECK	DM6.A.2	NOT EXECUTED
RULECHECK	DM6.R.1	NOT EXECUTED
RULECHECK	DM6.R.3	NOT EXECUTED
RULECHECK	DM6_O.R.1	NOT EXECUTED
RULECHECK	DM7.W.1	NOT EXECUTED
RULECHECK	DM7.W.2	NOT EXECUTED
RULECHECK	DM7.S.1	NOT EXECUTED
RULECHECK	DM7.S.2	NOT EXECUTED
RULECHECK	DM7.S.3	NOT EXECUTED
RULECHECK	DM7.S.3.1	NOT EXECUTED
RULECHECK	DM7.S.4	NOT EXECUTED
RULECHECK	DM7.S.5	NOT EXECUTED
RULECHECK	DM7.S.5.1	NOT EXECUTED
RULECHECK	DM7.S.7	NOT EXECUTED
RULECHECK	DM7.S.8	NOT EXECUTED
RULECHECK	DM7.S.9	NOT EXECUTED

RULECHECK	DM7.S.10	.....	NOT EXECUTED
RULECHECK	DM7.EN.1	.....	NOT EXECUTED
RULECHECK	DM7.A.1	.....	NOT EXECUTED
RULECHECK	DM7.A.2	.....	NOT EXECUTED
RULECHECK	DM7.R.1	.....	NOT EXECUTED
RULECHECK	DM7.R.3	.....	NOT EXECUTED
RULECHECK	DM7_O.R.1	.....	NOT EXECUTED
RULECHECK	DM8.W.1	.....	NOT EXECUTED
RULECHECK	DM8.W.2	.....	NOT EXECUTED
RULECHECK	DM8.S.1	.....	NOT EXECUTED
RULECHECK	DM8.S.2	.....	NOT EXECUTED
RULECHECK	DM8.S.3	.....	NOT EXECUTED
RULECHECK	DM8.S.4	.....	NOT EXECUTED
RULECHECK	DM8.S.5	.....	NOT EXECUTED
RULECHECK	DM8.S.5.1	.....	NOT EXECUTED
RULECHECK	DM8.S.7	.....	NOT EXECUTED
RULECHECK	DM8.S.8	.....	NOT EXECUTED
RULECHECK	DM8.EN.1	.....	NOT EXECUTED
RULECHECK	DM8.A.1	.....	NOT EXECUTED
RULECHECK	DM8.A.2	.....	NOT EXECUTED
RULECHECK	DM8.R.1	.....	NOT EXECUTED
RULECHECK	DM8.R.3	.....	NOT EXECUTED
RULECHECK	DM9.W.1	.....	NOT EXECUTED
RULECHECK	DM9.W.2	.....	NOT EXECUTED
RULECHECK	DM9.S.1	.....	NOT EXECUTED
RULECHECK	DM9.S.2	.....	NOT EXECUTED
RULECHECK	DM9.S.3	.....	NOT EXECUTED
RULECHECK	DM9.S.4	.....	NOT EXECUTED
RULECHECK	DM9.S.5	.....	NOT EXECUTED
RULECHECK	DM9.S.5.1	.....	NOT EXECUTED
RULECHECK	DM9.S.7	.....	NOT EXECUTED
RULECHECK	DM9.S.8	.....	NOT EXECUTED
RULECHECK	DM9.EN.1	.....	NOT EXECUTED
RULECHECK	DM9.A.1	.....	NOT EXECUTED
RULECHECK	DM9.A.2	.....	NOT EXECUTED
RULECHECK	DM9.R.1	.....	NOT EXECUTED
RULECHECK	DM9.R.3	.....	NOT EXECUTED
RULECHECK	RV.W.1.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	RV.S.1.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	RV.S.3.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	RV.EN.1.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	RV.R.1.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	AP.W.1.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	AP.W.2.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	AP.S.1.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	AP.S.2.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	AP.S.3.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	AP.EN.1.WB	.....	TOTAL Result Count = 0 (0)
RULECHECK	AP.EN.2.WB	.....	TOTAL Result Count = 0 (0)

```

RULECHECK AP.DN.1:L ..... NOT EXECUTED
RULECHECK AP.DN.1:H ..... NOT EXECUTED
RULECHECK FUSE_WARN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK FUSE_WARN.2 ..... TOTAL Result Count = 0 (0)
RULECHECK FUSE_WARN.3 ..... TOTAL Result Count = 0 (0)
RULECHECK FU.L.1.1 ..... TOTAL Result Count = 0 (0)
RULECHECK FU.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK LW.W.1 ..... TOTAL Result Count = 0 (0)
RULECHECK LW.L.1 ..... TOTAL Result Count = 0 (0)
RULECHECK LW.EN.1 ..... TOTAL Result Count = 0 (0)
RULECHECK LW.EN.2 ..... TOTAL Result Count = 0 (0)
RULECHECK LOGO.S.1 ..... TOTAL Result Count = 0 (0)
RULECHECK LOGO.O.1 ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.1.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.1.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.2.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.2.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.3.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.3.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.4.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.4.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.5.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.3.5.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.4g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.1.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.1.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.2.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.2.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.3.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.3.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.4.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.4.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.5.1g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.5.5.2g ..... TOTAL Result Count = 0 (0)
RULECHECK LUP.6 ..... TOTAL Result Count = 0 (0)
RULECHECK ESD_WARN.1 ..... NOT EXECUTED
RULECHECK ESD_WARN.2 ..... NOT EXECUTED
RULECHECK ESD.1g ..... NOT EXECUTED
RULECHECK ESD.3g ..... NOT EXECUTED
RULECHECK ESD.4g ..... NOT EXECUTED
RULECHECK ESD.5g ..... NOT EXECUTED
RULECHECK ESD.6g ..... NOT EXECUTED
RULECHECK ESD.7g ..... NOT EXECUTED
RULECHECK ESD.12g ..... NOT EXECUTED
RULECHECK ESD.16g ..... NOT EXECUTED
RULECHECK ESD.17g ..... NOT EXECUTED
RULECHECK ESD.18g ..... NOT EXECUTED

```

RULECHECK	ESD.19g	.....	NOT EXECUTED
RULECHECK	ESD.20g	.....	NOT EXECUTED
RULECHECK	ESD.21g	.....	NOT EXECUTED
RULECHECK	ESD.22g	.....	NOT EXECUTED
RULECHECK	ESD.23g	.....	NOT EXECUTED
RULECHECK	ESD.27g	.....	NOT EXECUTED
RULECHECK	ESD.28g	.....	NOT EXECUTED
RULECHECK	ESD.30g	.....	NOT EXECUTED
RULECHECK	ESD.32g	.....	NOT EXECUTED
RULECHECK	ESD.33g	.....	NOT EXECUTED
RULECHECK	ESD.34g	.....	NOT EXECUTED
RULECHECK	ESD.37g	.....	NOT EXECUTED
RULECHECK	ESD.47g	.....	NOT EXECUTED
RULECHECK	ESD.48g	.....	NOT EXECUTED
RULECHECK	ESD.49g	.....	NOT EXECUTED
RULECHECK	ESD.50g	.....	NOT EXECUTED
RULECHECK	ESD.51g	.....	NOT EXECUTED
RULECHECK	ESD.52g	.....	NOT EXECUTED
RULECHECK	ESD.55g	.....	NOT EXECUTED
RULECHECK	ESD.56g	.....	NOT EXECUTED
RULECHECK	ESD.57g	.....	NOT EXECUTED
RULECHECK	ESD.58g	.....	NOT EXECUTED
RULECHECK	ESD.59g	.....	NOT EXECUTED
RULECHECK	ESD.60g	.....	NOT EXECUTED
RULECHECK	ESD.61g	.....	NOT EXECUTED
RULECHECK	ESD.62g	.....	NOT EXECUTED
RULECHECK	ESD.63g	.....	NOT EXECUTED
RULECHECK	ESD.64g	.....	NOT EXECUTED
RULECHECK	ESD.65g	.....	NOT EXECUTED
RULECHECK	ESD.66g	.....	NOT EXECUTED
RULECHECK	ESD.72g	.....	NOT EXECUTED
RULECHECK	ESDIMP.W.1	.....	NOT EXECUTED
RULECHECK	ESDIMP.S.1	.....	NOT EXECUTED
RULECHECK	ESDIMP.S.2	.....	NOT EXECUTED
RULECHECK	ESDIMP.EN.1	.....	NOT EXECUTED
RULECHECK	ESDIMP.A.1	.....	NOT EXECUTED
RULECHECK	ESDIMP.A.2	.....	NOT EXECUTED
RULECHECK	ESDIMP.R.1	.....	NOT EXECUTED
RULECHECK	ESDIMP.EN.1:R	.....	NOT EXECUTED
RULECHECK	SRAM.W.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.S.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.S.2	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.EN.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.EX.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.O.1	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.R.12	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.R.13	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.R.15	.....	TOTAL Result Count = 0 (0)
RULECHECK	SRAM.R.17	.....	TOTAL Result Count = 0 (0)

RULECHECK SRAM.A.1	TOTAL Result Count = 0 (0)
RULECHECK NW.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK OD.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK PO.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK NP.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK PP.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK CO.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK M1.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK VIA1.S.1:SRM_SRAMDMY	TOTAL Result Count = 0 (0)
RULECHECK WLD.R.1	TOTAL Result Count = 0 (0)
RULECHECK WLD.R.2	TOTAL Result Count = 0 (0)
RULECHECK WLD.R.3	TOTAL Result Count = 0 (0)
RULECHECK WLD.R.6	TOTAL Result Count = 0 (0)
RULECHECK WLD.R.7	TOTAL Result Count = 0 (0)
RULECHECK PO.S.14m	TOTAL Result Count = 0 (0)
RULECHECK PO.EN.1m	TOTAL Result Count = 0 (0)
RULECHECK PO.EN.2m	TOTAL Result Count = 0 (0)
RULECHECK PO.EN.3m	TOTAL Result Count = 0 (0)
RULECHECK BJT.R.1	TOTAL Result Count = 0 (0)
RULECHECK BJT.R.8	TOTAL Result Count = 0 (0)
RULECHECK RES.2m:OD	TOTAL Result Count = 0 (0)
RULECHECK RES.2m:PO	TOTAL Result Count = 0 (0)
RULECHECK NWROD.R.1m	TOTAL Result Count = 0 (0)
RULECHECK NWRSTI.R.1m	TOTAL Result Count = 0 (0)
RULECHECK SBD.W.1__SBD.W.1.1	TOTAL Result Count = 0 (0)
RULECHECK SBD.W.2__SBD.W.2.1	TOTAL Result Count = 0 (0)
RULECHECK SBD.W.3	TOTAL Result Count = 0 (0)
RULECHECK SBD.W.4	TOTAL Result Count = 0 (0)
RULECHECK SBD.S.1	TOTAL Result Count = 0 (0)
RULECHECK SBD.E.1	TOTAL Result Count = 0 (0)
RULECHECK SBD.E.1.1	TOTAL Result Count = 0 (0)
RULECHECK SBD.E.2	TOTAL Result Count = 0 (0)
RULECHECK SBD.E.2.1	TOTAL Result Count = 0 (0)
RULECHECK SBD.E.2.2	TOTAL Result Count = 0 (0)
RULECHECK SBD.E.3	TOTAL Result Count = 0 (0)
RULECHECK SBD.O.1	TOTAL Result Count = 0 (0)
RULECHECK SBD.R.2	TOTAL Result Count = 0 (0)
RULECHECK SBD.R.3	TOTAL Result Count = 0 (0)
RULECHECK SBD.R.4	TOTAL Result Count = 0 (0)
RULECHECK SBD.R.5	TOTAL Result Count = 0 (0)
RULECHECK SBD.R.6	TOTAL Result Count = 0 (0)
RULECHECK _VAR.R.2	TOTAL Result Count = 0 (0)
RULECHECK _VAR.R.5	TOTAL Result Count = 0 (0)
RULECHECK VAR.R.6	TOTAL Result Count = 0 (0)
RULECHECK VAR.R.7	TOTAL Result Count = 0 (0)
RULECHECK VAR.R.8	TOTAL Result Count = 0 (0)

 --- RULECHECK RESULTS STATISTICS (BY CELL)

--- SUMMARY

TOTAL CPU Time:	1
TOTAL REAL Time:	1
TOTAL Original Layer Geometries:	5976 (25347)
TOTAL DRC RuleChecks Executed:	1293
TOTAL DRC Results Generated:	0 (0)

4.4 The LVS report

```
#####
##                                     ##
##          C A L I B R E   S Y S T E M          ##
##                                     ##
##          L V S   R E P O R T          ##
##                                     ##
#####
```

```
REPORT FILE NAME:      Neuron.lvs.report
LAYOUT NAME:          /uio/hume/student-u52/kunzh/cadence617_tsmc65rf_oa/Neuron.sp ('Neuron')
SOURCE NAME:          /uio/hume/student-u52/kunzh/cadence617_tsmc65rf_oa/Neuron.src.net ('Neuron')
RULE FILE:            /uio/hume/student-u52/kunzh/cadence617_tsmc65rf_oa/_calibre.lvs_
CREATION TIME:        Wed Nov 10 19:33:13 2021
CURRENT DIRECTORY:    /uio/hume/student-u52/kunzh/cadence617_tsmc65rf_oa
USER NAME:            kunzh
CALIBRE VERSION:      v2020.4_15.9   Thu Oct 1 15:09:27 PDT 2020
```

OVERALL COMPARISON RESULTS

```

#          #####          - -
#          #              *  *
#  #      #   CORRECT   #   |
#  #      #              #   \_/_/
#          #####

```

```
*****
CELL SUMMARY
*****
```

Result	Layout	Source
-----	-----	-----
CORRECT	Neuron	Neuron

```
*****
LVS PARAMETERS
*****
```

o LVS Setup:

```
// LVS COMPONENT TYPE PROPERTY
// LVS COMPONENT SUBTYPE PROPERTY
// LVS PIN NAME PROPERTY
```

```
LVS POWER NAME      "AHVDD" "AHVDDb" "AHVDDG" "AHVDDR" "AHVDDWELL" "AVDD" "AVDDb" "AVDDb
G" "AVDDG" "AVDDR"
"AVDWELL" "DHVDD" "DVDD" "HVDDWELL" "TACVDD" "TAVD33" "TAVD33PST" "T
AVDD" "TAVDDPST"
"TVDD" "VD33" "VDD" "VDD5V" "VDESd" "VDDG" "VDDM" "VDDPST" "VDDSA"
```


	"VDWELL"
LVS GROUND NAME	"AGND" "AHVSS" "AHVSSB" "AHVSSG" "AHVSSR" "AHVSSUB" "AVSS" "AVSSB" "AVSSBG" "AVSSG" "AVSSR" "AVSSUB" "DHVSS" "DVSS" "GND" "HVSSUB" "TAVSS" "TAVSSPST" "TVSS" "VS33" "VSS" "VSSED" "VSSG" "VSSM" "VSSPST" "VSSUB"
LVS CELL SUPPLY	NO
LVS RECOGNIZE GATES	ALL
// LVS HCELL REPORT	
LVS IGNORE PORTS	NO
LVS CHECK PORT NAMES	YES
LVS IGNORE TRIVIAL NAMED PORTS	NO
LVS BUILTIN DEVICE PIN SWAP	YES
LVS ALL CAPACITOR PINS SWAPPABLE	YES
LVS DISCARD PINS BY DEVICE	NO
LVS SOFT SUBSTRATE PINS	NO
LVS INJECT LOGIC	YES
LVS EXPAND UNBALANCED CELLS	YES
LVS FLATTEN INSIDE CELL	NO
LVS EXPAND SEED PROMOTIONS	NO
LVS PRESERVE PARAMETERIZED CELLS	NO
LVS GLOBALS ARE PORTS	YES
LVS REVERSE WL	NO
LVS SPICE PREFER PINS	YES
LVS SPICE SLASH IS SPACE	YES
LVS SPICE ALLOW FLOATING PINS	YES
// LVS SPICE ALLOW INLINE PARAMETERS	
LVS SPICE ALLOW UNQUOTED STRINGS	NO
LVS SPICE CONDITIONAL LDD	NO
LVS SPICE CULL PRIMITIVE SUBCIRCUITS	NO
// LVS SPICE EXCLUDE CELL SOURCE	
// LVS SPICE EXCLUDE CELL LAYOUT	
LVS SPICE IMPLIED MOS AREA	NO
// LVS SPICE MULTIPLIER NAME	
LVS SPICE OVERRIDE GLOBALS	NO
LVS SPICE REDEFINE PARAM	NO
LVS SPICE REPLICATE DEVICES	NO
LVS SPICE SCALE X PARAMETERS	NO
LVS SPICE STRICT WL	NO
// LVS SPICE OPTION	
LVS STRICT SUBTYPES	NO
LVS EXACT SUBTYPES	NO
LAYOUT CASE	NO
SOURCE CASE	NO
LVS COMPARE CASE	NO
LVS COMPARE CASE STRICT	NO
LVS DOWNCASE DEVICE	NO
LVS REPORT MAXIMUM	50
LVS PROPERTY RESOLUTION MAXIMUM	65536
// LVS SIGNATURE MAXIMUM	
// LVS FILTER UNUSED OPTION	
// LVS REPORT OPTION	
LVS REPORT UNITS	YES
// LVS NON USER NAME PORT	
// LVS NON USER NAME NET	
// LVS NON USER NAME INSTANCE	
// LVS IGNORE DEVICE PIN	
// LVS PREFER NETS FILTER SOURCE	
// LVS PREFER NETS FILTER LAYOUT	
LVS PREFER PORT NETS	NO
LVS EXPAND ON ERROR	NO

```
// Device Type Map
```

```
LVS DEVICE TYPE      RESISTOR "rm1" "rm10" "rm2" "rm3" "rm4" "rm5" "rm6" "rm7" "rm8" "rm9"
                        " " "rnodl" "rnodl_m"
                        "rnods" "rnods_m" "rnodwo" "rnodwo_m" "rnpoly1" "rnpoly1_m"
                        "rnpolys"
                        "rnpolys_m" "rnpolywo" "rnpolywo_m" "rnwod" "rnwod_m" "rnwst
                        i" "rnwsti_m"
                        "rpodl" "rpodl_m" "rpods" "rpods_m" "rpodwo" "rpodwo_m" "rp
                        poly1" "rppoly1_m"
                        "rppoly1_rf" "rppoly1_rf_rdk" "rppolys" "rppolys_m" "rppoly
                        s_rf"
                        "rppolys_rf_rdk" "rppolywo" "rppolywo_m" "rppolywo_rf" "rpp
                        olywo_rf_rdk"
                        [ POS=PLUS NEG=MINUS ] SOURCE LAYOUT
```

```
// Reduction
```

```
LVS REDUCE SERIES MOS      NO
LVS REDUCE PARALLEL MOS    YES
LVS REDUCE SEMI SERIES MOS NO
LVS REDUCE SPLIT GATES     NO
LVS REDUCE PARALLEL BIPOLAR YES
LVS REDUCE SERIES CAPACITORS YES
LVS REDUCE PARALLEL CAPACITORS YES
LVS REDUCE SERIES RESISTORS YES
LVS REDUCE PARALLEL RESISTORS YES
LVS REDUCE PARALLEL DIODES YES

LVS REDUCE rnwsti_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnwsti_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rnwod_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnwod_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rpodwo_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rpodwo_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rnodwo_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnodwo_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rpodl_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rpodl_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rnodl_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnodl_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rpods_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rpods_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rnods_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnods_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rppolys_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rppolys_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rnpolys_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnpolys_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rppoly1_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rppoly1_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rnpoly1_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnpoly1_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rppolywo_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rppolywo_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rnpolywo_m PARALLEL [ TOLERANCE 1r 0 ]
LVS REDUCE rnpolywo_m SERIES PLUS MINUS [ TOLERANCE wr 0 ]
LVS REDUCE rppoly1_rf PARALLEL NO
LVS REDUCE rppoly1_rf SERIES PLUS MINUS NO
LVS REDUCE rppoly1_rf_rdk PARALLEL NO
```

```

LVS REDUCE  rppoly1_rf_rdk  SERIES PLUS MINUS NO
LVS REDUCE  rppolys_rf      PARALLEL NO
LVS REDUCE  rppolys_rf      SERIES PLUS MINUS NO
LVS REDUCE  rppolys_rf_rdk  PARALLEL NO
LVS REDUCE  rppolys_rf_rdk  SERIES PLUS MINUS NO
LVS REDUCE  rppolywo_rf     PARALLEL NO
LVS REDUCE  rppolywo_rf     SERIES PLUS MINUS NO
LVS REDUCE  rppolywo_rf_rdk PARALLEL NO
LVS REDUCE  rppolywo_rf_rdk SERIES PLUS MINUS NO
LVS REDUCTION PRIORITY      PARALLEL

```

```

LVS SHORT EQUIVALENT NODES      NO

```

```

// Filter

```

```

LVS FILTER  D(pnwdio)  OPEN LAYOUT

```

```

// Trace Property

```

```

TRACE PROPERTY  lddp(pch_hv25_spw)  1 1 0
TRACE PROPERTY  lddp(pch_hv25_spw)  w w 0
TRACE PROPERTY  lddn(nch_hv25_snw)  1 1 0
TRACE PROPERTY  lddn(nch_hv25_snw)  w w 0
TRACE PROPERTY  mn(nch)  1 1 0
TRACE PROPERTY  mn(nch)  w w 0
TRACE PROPERTY  mn(nch_18)  1 1 0
TRACE PROPERTY  mn(nch_18)  w w 0
TRACE PROPERTY  mn(nch_18_dnw)  1 1 0
TRACE PROPERTY  mn(nch_18_dnw)  w w 0
TRACE PROPERTY  mn(nch_25)  1 1 0
TRACE PROPERTY  mn(nch_25)  w w 0
TRACE PROPERTY  mn(nch_25_dnw)  1 1 0
TRACE PROPERTY  mn(nch_25_dnw)  w w 0
TRACE PROPERTY  mn(nch_25_dnwod)  1 1 0
TRACE PROPERTY  mn(nch_25_dnwod)  w w 0
TRACE PROPERTY  mn(nch_25_dnwud)  1 1 0
TRACE PROPERTY  mn(nch_25_dnwud)  w w 0
TRACE PROPERTY  mn(nch_25od)  1 1 0
TRACE PROPERTY  mn(nch_25od)  w w 0
TRACE PROPERTY  mn(nch_25od28)  1 1 0
TRACE PROPERTY  mn(nch_25od28)  w w 0
TRACE PROPERTY  mn(nch_25od28_dnw)  1 1 0
TRACE PROPERTY  mn(nch_25od28_dnw)  w w 0
TRACE PROPERTY  mn(nch_25ud)  1 1 0
TRACE PROPERTY  mn(nch_25ud)  w w 0
TRACE PROPERTY  mn(nch_33)  1 1 0
TRACE PROPERTY  mn(nch_33)  w w 0
TRACE PROPERTY  mn(nch_33_dnw)  1 1 0
TRACE PROPERTY  mn(nch_33_dnw)  w w 0
TRACE PROPERTY  mn(nch_dnw)  1 1 0
TRACE PROPERTY  mn(nch_dnw)  w w 0
TRACE PROPERTY  mn(nch_dnw_1tr)  1 1 0
TRACE PROPERTY  mn(nch_dnw_1tr)  w w 0
TRACE PROPERTY  mn(nch_dnw_w)  1 1 0
TRACE PROPERTY  mn(nch_dnw_w)  w w 0
TRACE PROPERTY  mn(nch_dnw_w_lvt)  1 1 0
TRACE PROPERTY  mn(nch_dnw_w_lvt)  w w 0
TRACE PROPERTY  mn(nch_esd18)  1 1 0
TRACE PROPERTY  mn(nch_esd18)  w w 0
TRACE PROPERTY  mn(nch_esd18_dnw)  1 1 0
TRACE PROPERTY  mn(nch_esd18_dnw)  w w 0

```

```

TRACE PROPERTY mn(nch_hvt) 1 1 0
TRACE PROPERTY mn(nch_hvt) w w 0
TRACE PROPERTY mn(nch_hvt_dnw) 1 1 0
TRACE PROPERTY mn(nch_hvt_dnw) w w 0
TRACE PROPERTY mn(nch_lpg) 1 1 0
TRACE PROPERTY mn(nch_lpg) w w 0
TRACE PROPERTY mn(nch_lpghvt) 1 1 0
TRACE PROPERTY mn(nch_lpghvt) w w 0
TRACE PROPERTY mn(nch_lpgna) 1 1 0
TRACE PROPERTY mn(nch_lpgna) w w 0
TRACE PROPERTY mn(nch_lvt) 1 1 0
TRACE PROPERTY mn(nch_lvt) w w 0
TRACE PROPERTY mn(nch_lvt_dnw) 1 1 0
TRACE PROPERTY mn(nch_lvt_dnw) w w 0
TRACE PROPERTY mn(nch_mlv) 1 1 0
TRACE PROPERTY mn(nch_mlv) w w 0
TRACE PROPERTY mn(nch_mlv_dnw) 1 1 0
TRACE PROPERTY mn(nch_mlv_dnw) w w 0
TRACE PROPERTY mn(nch_na) 1 1 0
TRACE PROPERTY mn(nch_na) w w 0
TRACE PROPERTY mn(nch_na18) 1 1 0
TRACE PROPERTY mn(nch_na18) w w 0
TRACE PROPERTY mn(nch_na25) 1 1 0
TRACE PROPERTY mn(nch_na25) w w 0
TRACE PROPERTY mn(nch_na25od) 1 1 0
TRACE PROPERTY mn(nch_na25od) w w 0
TRACE PROPERTY mn(nch_na25ud) 1 1 0
TRACE PROPERTY mn(nch_na25ud) w w 0
TRACE PROPERTY mn(nch_na33) 1 1 0
TRACE PROPERTY mn(nch_na33) w w 0
TRACE PROPERTY mn(nch_timer) 1 1 0
TRACE PROPERTY mn(nch_timer) w w 0
TRACE PROPERTY mn(nch_uhvt) 1 1 0
TRACE PROPERTY mn(nch_uhvt) w w 0
TRACE PROPERTY mn(nch_uhvt_dnw) 1 1 0
TRACE PROPERTY mn(nch_uhvt_dnw) w w 0
TRACE PROPERTY mn(nch_ulvt) 1 1 0
TRACE PROPERTY mn(nch_ulvt) w w 0
TRACE PROPERTY mn(nch_ulvt_dnw) 1 1 0
TRACE PROPERTY mn(nch_ulvt_dnw) w w 0
TRACE PROPERTY mn(nch_w) 1 1 0
TRACE PROPERTY mn(nch_w) w w 0
TRACE PROPERTY mn(nch_w_lvt) 1 1 0
TRACE PROPERTY mn(nch_w_lvt) w w 0
TRACE PROPERTY mn(nchpd_dphcsr) 1 1 0
TRACE PROPERTY mn(nchpd_dphcsr) w w 0
TRACE PROPERTY mn(nchpd_dpsr) 1 1 0
TRACE PROPERTY mn(nchpd_dpsr) w w 0
TRACE PROPERTY mn(nchpd_hvtdphcsr) 1 1 0
TRACE PROPERTY mn(nchpd_hvtdphcsr) w w 0
TRACE PROPERTY mn(nchpd_hvtdpsr) 1 1 0
TRACE PROPERTY mn(nchpd_hvtdpsr) w w 0
TRACE PROPERTY mn(nchpd_hvtsr) 1 1 0
TRACE PROPERTY mn(nchpd_hvtsr) w w 0
TRACE PROPERTY mn(nchpd_lpgdpsr) 1 1 0
TRACE PROPERTY mn(nchpd_lpgdpsr) w w 0
TRACE PROPERTY mn(nchpd_lpgsr) 1 1 0
TRACE PROPERTY mn(nchpd_lpgsr) w w 0
TRACE PROPERTY mn(nchpd_lpgtpsr) 1 1 0
TRACE PROPERTY mn(nchpd_lpgtpsr) w w 0
TRACE PROPERTY mn(nchpd_sr) 1 1 0

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```

TRACE PROPERTY mn(nchpd_sr) w w 0
TRACE PROPERTY mn(nchpd_ulpdpsr) 1 1 0
TRACE PROPERTY mn(nchpd_ulpdpsr) w w 0
TRACE PROPERTY mn(nchpd_ulpsr) 1 1 0
TRACE PROPERTY mn(nchpd_ulpsr) w w 0
TRACE PROPERTY mn(nchpd_wisr) 1 1 0
TRACE PROPERTY mn(nchpd_wisr) w w 0
TRACE PROPERTY mn(nchpd_wosr) 1 1 0
TRACE PROPERTY mn(nchpd_wosr) w w 0
TRACE PROPERTY mn(nchpg_dphcsr) 1 1 0
TRACE PROPERTY mn(nchpg_dphcsr) w w 0
TRACE PROPERTY mn(nchpg_dpsr) 1 1 0
TRACE PROPERTY mn(nchpg_dpsr) w w 0
TRACE PROPERTY mn(nchpg_hvtdphcsr) 1 1 0
TRACE PROPERTY mn(nchpg_hvtdphcsr) w w 0
TRACE PROPERTY mn(nchpg_hvtdpsr) 1 1 0
TRACE PROPERTY mn(nchpg_hvtdpsr) w w 0
TRACE PROPERTY mn(nchpg_hvtsr) 1 1 0
TRACE PROPERTY mn(nchpg_hvtsr) w w 0
TRACE PROPERTY mn(nchpg_lpgdpsr) 1 1 0
TRACE PROPERTY mn(nchpg_lpgdpsr) w w 0
TRACE PROPERTY mn(nchpg_lpgsr) 1 1 0
TRACE PROPERTY mn(nchpg_lpgsr) w w 0
TRACE PROPERTY mn(nchpg_lpgtpsrs) 1 1 0
TRACE PROPERTY mn(nchpg_lpgtpsrs) w w 0
TRACE PROPERTY mn(nchpg_sr) 1 1 0
TRACE PROPERTY mn(nchpg_sr) w w 0
TRACE PROPERTY mn(nchpg_ulpdpsr) 1 1 0
TRACE PROPERTY mn(nchpg_ulpdpsr) w w 0
TRACE PROPERTY mn(nchpg_ulpsr) 1 1 0
TRACE PROPERTY mn(nchpg_ulpsr) w w 0
TRACE PROPERTY mn(nchpg_wisr) 1 1 0
TRACE PROPERTY mn(nchpg_wisr) w w 0
TRACE PROPERTY mn(nchpg_wosr) 1 1 0
TRACE PROPERTY mn(nchpg_wosr) w w 0
TRACE PROPERTY mp(pch) 1 1 0
TRACE PROPERTY mp(pch) w w 0
TRACE PROPERTY mp(pch_18) 1 1 0
TRACE PROPERTY mp(pch_18) w w 0
TRACE PROPERTY mp(pch_25) 1 1 0
TRACE PROPERTY mp(pch_25) w w 0
TRACE PROPERTY mp(pch_25od) 1 1 0
TRACE PROPERTY mp(pch_25od) w w 0
TRACE PROPERTY mp(pch_25od28) 1 1 0
TRACE PROPERTY mp(pch_25od28) w w 0
TRACE PROPERTY mp(pch_25ud) 1 1 0
TRACE PROPERTY mp(pch_25ud) w w 0
TRACE PROPERTY mp(pch_33) 1 1 0
TRACE PROPERTY mp(pch_33) w w 0
TRACE PROPERTY mp(pch_edc) 1 1 0
TRACE PROPERTY mp(pch_edc) w w 0
TRACE PROPERTY mp(pch_hvt) 1 1 0
TRACE PROPERTY mp(pch_hvt) w w 0
TRACE PROPERTY mp(pch_lpg) 1 1 0
TRACE PROPERTY mp(pch_lpg) w w 0
TRACE PROPERTY mp(pch_lpghvt) 1 1 0
TRACE PROPERTY mp(pch_lpghvt) w w 0
TRACE PROPERTY mp(pch_lvt) 1 1 0
TRACE PROPERTY mp(pch_lvt) w w 0
TRACE PROPERTY mp(pch_mlv) 1 1 0
TRACE PROPERTY mp(pch_mlv) w w 0

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TRACE PROPERTY mp(pch_timer) 1 1 0
TRACE PROPERTY mp(pch_timer) w w 0
TRACE PROPERTY mp(pch_uhvt) 1 1 0
TRACE PROPERTY mp(pch_uhvt) w w 0
TRACE PROPERTY mp(pch_ulvt) 1 1 0
TRACE PROPERTY mp(pch_ulvt) w w 0
TRACE PROPERTY mp(pch_w) 1 1 0
TRACE PROPERTY mp(pch_w) w w 0
TRACE PROPERTY mp(pch_w_lvt) 1 1 0
TRACE PROPERTY mp(pch_w_lvt) w w 0
TRACE PROPERTY mp(pchpu_dphcsr) 1 1 0
TRACE PROPERTY mp(pchpu_dphcsr) w w 0
TRACE PROPERTY mp(pchpu_dpsr) 1 1 0
TRACE PROPERTY mp(pchpu_dpsr) w w 0
TRACE PROPERTY mp(pchpu_hvtdphcsr) 1 1 0
TRACE PROPERTY mp(pchpu_hvtdphcsr) w w 0
TRACE PROPERTY mp(pchpu_hvtdpsr) 1 1 0
TRACE PROPERTY mp(pchpu_hvtdpsr) w w 0
TRACE PROPERTY mp(pchpu_hvtsr) 1 1 0
TRACE PROPERTY mp(pchpu_hvtsr) w w 0
TRACE PROPERTY mp(pchpu_lpgdpsr) 1 1 0
TRACE PROPERTY mp(pchpu_lpgdpsr) w w 0
TRACE PROPERTY mp(pchpu_lpgdsr) 1 1 0
TRACE PROPERTY mp(pchpu_lpgdsr) w w 0
TRACE PROPERTY mp(pchpu_lpgtpsrsr) 1 1 0
TRACE PROPERTY mp(pchpu_lpgtpsrsr) w w 0
TRACE PROPERTY mp(pchpu_sr) 1 1 0
TRACE PROPERTY mp(pchpu_sr) w w 0
TRACE PROPERTY mp(pchpu_ulpdpsr) 1 1 0
TRACE PROPERTY mp(pchpu_ulpdpsr) w w 0
TRACE PROPERTY mp(pchpu_ulpsr) 1 1 0
TRACE PROPERTY mp(pchpu_ulpsr) w w 0
TRACE PROPERTY mp(pchpu_wisr) 1 1 0
TRACE PROPERTY mp(pchpu_wisr) w w 0
TRACE PROPERTY mp(pchpu_wosr) 1 1 0
TRACE PROPERTY mp(pchpu_wosr) w w 0
TRACE PROPERTY q(npn10) a a 0
TRACE PROPERTY q(npn10_s) a a 0
TRACE PROPERTY q(npn2) a a 0
TRACE PROPERTY q(npn2_s) a a 0
TRACE PROPERTY q(npn5) a a 0
TRACE PROPERTY q(npn5_s) a a 0
TRACE PROPERTY q(pnp10) a a 0
TRACE PROPERTY q(pnp10_s) a a 0
TRACE PROPERTY q(pnp2) a a 0
TRACE PROPERTY q(pnp2_s) a a 0
TRACE PROPERTY q(pnp5) a a 0
TRACE PROPERTY q(pnp5_s) a a 0
TRACE PROPERTY d(ndio) a a 0
TRACE PROPERTY d(ndio_18) a a 0
TRACE PROPERTY d(ndio_25) a a 0
TRACE PROPERTY d(ndio_25od) a a 0
TRACE PROPERTY d(ndio_25od28) a a 0
TRACE PROPERTY d(ndio_25ud) a a 0
TRACE PROPERTY d(ndio_33) a a 0
TRACE PROPERTY d(ndio_esd) a a 0
TRACE PROPERTY d(ndio_hvt) a a 0
TRACE PROPERTY d(ndio_lpg) a a 0
TRACE PROPERTY d(ndio_lpghvt) a a 0
TRACE PROPERTY d(ndio_lpgna) a a 0
TRACE PROPERTY d(ndio_lvt) a a 0

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TRACE PROPERTY d(ndio_mlv)  a a 0
TRACE PROPERTY d(ndio_na)   a a 0
TRACE PROPERTY d(ndio_na18) a a 0
TRACE PROPERTY d(ndio_na25) a a 0
TRACE PROPERTY d(ndio_na25od) a a 0
TRACE PROPERTY d(ndio_na25ud) a a 0
TRACE PROPERTY d(ndio_na33) a a 0
TRACE PROPERTY d(ndio_uhvt) a a 0
TRACE PROPERTY d(ndio_w)    a a 0
TRACE PROPERTY d(nwdio)     a a 0
TRACE PROPERTY d(nwdio_18)  a a 0
TRACE PROPERTY d(nwdio_25)  a a 0
TRACE PROPERTY d(nwdio_33)  a a 0
TRACE PROPERTY d(pdio)      a a 0
TRACE PROPERTY d(pdio_18)   a a 0
TRACE PROPERTY d(pdio_25)   a a 0
TRACE PROPERTY d(pdio_25od) a a 0
TRACE PROPERTY d(pdio_25od28) a a 0
TRACE PROPERTY d(pdio_25ud) a a 0
TRACE PROPERTY d(pdio_33)   a a 0
TRACE PROPERTY d(pdio_hvt)  a a 0
TRACE PROPERTY d(pdio_lpg)  a a 0
TRACE PROPERTY d(pdio_lpghvt) a a 0
TRACE PROPERTY d(pdio_lvt)  a a 0
TRACE PROPERTY d(pdio_mlv)  a a 0
TRACE PROPERTY d(pdio_uhvt) a a 0
TRACE PROPERTY d(pdio_w)    a a 0
TRACE PROPERTY crtmmom_rf   nv nv 0
TRACE PROPERTY crtmmom_rf   nh nh 0
TRACE PROPERTY crtmmom_rf   s s 0
TRACE PROPERTY crtmmom_rf   w w 0
TRACE PROPERTY crtmmom_rf   stm stm 0
TRACE PROPERTY crtmmom_rf   spm spm 0
TRACE PROPERTY crtmmom_rf_rdk nv nv 0
TRACE PROPERTY crtmmom_rf_rdk nh nh 0
TRACE PROPERTY crtmmom_rf_rdk s s 0
TRACE PROPERTY crtmmom_rf_rdk w w 0
TRACE PROPERTY crtmmom_rf_rdk stm stm 0
TRACE PROPERTY crtmmom_rf_rdk spm spm 0
TRACE PROPERTY crtmmom      nv nv 0
TRACE PROPERTY crtmmom      nh nh 0
TRACE PROPERTY crtmmom      s s 0
TRACE PROPERTY crtmmom      w w 0
TRACE PROPERTY crtmmom      stm stm 0
TRACE PROPERTY crtmmom      spm spm 0
TRACE PROPERTY crtmmom_2t   nv nv 0
TRACE PROPERTY crtmmom_2t   nh nh 0
TRACE PROPERTY crtmmom_2t   s s 0
TRACE PROPERTY crtmmom_2t   w w 0
TRACE PROPERTY crtmmom_2t   stm stm 0
TRACE PROPERTY crtmmom_2t   spm spm 0
TRACE PROPERTY crtmmom_mx    nv nv 0
TRACE PROPERTY crtmmom_mx    nh nh 0
TRACE PROPERTY crtmmom_mx    s s 0
TRACE PROPERTY crtmmom_mx    w w 0
TRACE PROPERTY crtmmom_mx    stm stm 0
TRACE PROPERTY crtmmom_mx    spm spm 0
TRACE PROPERTY crtmmom_mx    mf mf 0
TRACE PROPERTY fmom         nr nr 0
TRACE PROPERTY fmom         lr lr 0
TRACE PROPERTY fmom         s s 0

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```

TRACE PROPERTY fmom w w 0
TRACE PROPERTY fmom stm stm 0
TRACE PROPERTY fmom spm spm 0
TRACE PROPERTY fmom_mx nr nr 0
TRACE PROPERTY fmom_mx lr lr 0
TRACE PROPERTY fmom_mx s s 0
TRACE PROPERTY fmom_mx w w 0
TRACE PROPERTY fmom_mx stm stm 0
TRACE PROPERTY fmom_mx spm spm 0
TRACE PROPERTY fmom_mx mf mf 0
TRACE PROPERTY lincap lr lr 0
TRACE PROPERTY lincap wr wr 0
TRACE PROPERTY lincap mr mr 0
TRACE PROPERTY lincap_25 lr lr 0
TRACE PROPERTY lincap_25 wr wr 0
TRACE PROPERTY lincap_25 mr mr 0
TRACE PROPERTY lincap_rf lr lr 0
TRACE PROPERTY lincap_rf wr wr 0
TRACE PROPERTY lincap_rf br br 0
TRACE PROPERTY lincap_rf gr gr 0
TRACE PROPERTY lincap_rf_25 lr lr 0
TRACE PROPERTY lincap_rf_25 wr wr 0
TRACE PROPERTY lincap_rf_25 br br 0
TRACE PROPERTY lincap_rf_25 gr gr 0
TRACE PROPERTY lowcpad_d15 lt lt 0
TRACE PROPERTY lowcpad_d15 wt wt 0
TRACE PROPERTY lowcpad_d15 lay lay 0
TRACE PROPERTY lowcpad_d23 lt lt 0
TRACE PROPERTY lowcpad_d23 wt wt 0
TRACE PROPERTY lowcpad_d23 lay lay 0
TRACE PROPERTY mimcap_sin lt lt 0
TRACE PROPERTY mimcap_sin wt wt 0
TRACE PROPERTY mimcap_sin mimflag mimflag 0
TRACE PROPERTY mimcap_sin_3t lt lt 0
TRACE PROPERTY mimcap_sin_3t wt wt 0
TRACE PROPERTY mimcap_sin_3t lay lay 0
TRACE PROPERTY mimcap_sin_3t mimflag mimflag 0
TRACE PROPERTY mimcap_um_sin_rf lt lt 0
TRACE PROPERTY mimcap_um_sin_rf wt wt 0
TRACE PROPERTY mimcap_um_sin_rf mimflag mimflag 0
TRACE PROPERTY mimcap_woum_sin_rf lt lt 0
TRACE PROPERTY mimcap_woum_sin_rf wt wt 0
TRACE PROPERTY mimcap_woum_sin_rf lay lay 0
TRACE PROPERTY mimcap_woum_sin_rf mimflag mimflag 0
TRACE PROPERTY moscap_rf lr lr 0
TRACE PROPERTY moscap_rf wr wr 0
TRACE PROPERTY moscap_rf br br 0
TRACE PROPERTY moscap_rf gr gr 0
TRACE PROPERTY moscap_rf18 lr lr 0
TRACE PROPERTY moscap_rf18 wr wr 0
TRACE PROPERTY moscap_rf18 br br 0
TRACE PROPERTY moscap_rf18 gr gr 0
TRACE PROPERTY moscap_rf18_nw lr lr 0
TRACE PROPERTY moscap_rf18_nw wr wr 0
TRACE PROPERTY moscap_rf18_nw br br 0
TRACE PROPERTY moscap_rf18_nw gr gr 0
TRACE PROPERTY moscap_rf25 lr lr 0
TRACE PROPERTY moscap_rf25 wr wr 0
TRACE PROPERTY moscap_rf25 br br 0
TRACE PROPERTY moscap_rf25 gr gr 0
TRACE PROPERTY moscap_rf25_nw lr lr 0

```



```

TRACE PROPERTY moscap_rf25_nw wr wr 0
TRACE PROPERTY moscap_rf25_nw br br 0
TRACE PROPERTY moscap_rf25_nw gr gr 0
TRACE PROPERTY moscap_rf33 lr lr 0
TRACE PROPERTY moscap_rf33 wr wr 0
TRACE PROPERTY moscap_rf33 br br 0
TRACE PROPERTY moscap_rf33 gr gr 0
TRACE PROPERTY moscap_rf33_nw lr lr 0
TRACE PROPERTY moscap_rf33_nw wr wr 0
TRACE PROPERTY moscap_rf33_nw br br 0
TRACE PROPERTY moscap_rf33_nw gr gr 0
TRACE PROPERTY moscap_rf_hvt lr lr 0
TRACE PROPERTY moscap_rf_hvt wr wr 0
TRACE PROPERTY moscap_rf_hvt br br 0
TRACE PROPERTY moscap_rf_hvt gr gr 0
TRACE PROPERTY moscap_rf_hvt_nw lr lr 0
TRACE PROPERTY moscap_rf_hvt_nw wr wr 0
TRACE PROPERTY moscap_rf_hvt_nw br br 0
TRACE PROPERTY moscap_rf_hvt_nw gr gr 0
TRACE PROPERTY moscap_rf_nw lr lr 0
TRACE PROPERTY moscap_rf_nw wr wr 0
TRACE PROPERTY moscap_rf_nw br br 0
TRACE PROPERTY moscap_rf_nw gr gr 0
TRACE PROPERTY moscap_rf_rdk lr lr 0
TRACE PROPERTY moscap_rf_rdk wr wr 0
TRACE PROPERTY moscap_rf_rdk br br 0
TRACE PROPERTY moscap_rf_rdk gr gr 0
TRACE PROPERTY ndio_hia_rf al al 0
TRACE PROPERTY ndio_hia_rf aw aw 0
TRACE PROPERTY nmos_rf wr wr 0
TRACE PROPERTY nmos_rf lr lr 0
TRACE PROPERTY nmos_rf nr nr 0
TRACE PROPERTY nmos_rf_18 wr wr 0
TRACE PROPERTY nmos_rf_18 lr lr 0
TRACE PROPERTY nmos_rf_18 nr nr 0
TRACE PROPERTY nmos_rf_18_6t wr wr 0
TRACE PROPERTY nmos_rf_18_6t lr lr 0
TRACE PROPERTY nmos_rf_18_6t nr nr 0
TRACE PROPERTY nmos_rf_18_nodnw wr wr 0
TRACE PROPERTY nmos_rf_18_nodnw lr lr 0
TRACE PROPERTY nmos_rf_18_nodnw nr nr 0
TRACE PROPERTY nmos_rf_25 wr wr 0
TRACE PROPERTY nmos_rf_25 lr lr 0
TRACE PROPERTY nmos_rf_25 nr nr 0
TRACE PROPERTY nmos_rf_25_6t wr wr 0
TRACE PROPERTY nmos_rf_25_6t lr lr 0
TRACE PROPERTY nmos_rf_25_6t nr nr 0
TRACE PROPERTY nmos_rf_25_nodnw wr wr 0
TRACE PROPERTY nmos_rf_25_nodnw lr lr 0
TRACE PROPERTY nmos_rf_25_nodnw nr nr 0
TRACE PROPERTY nmos_rf_25_nodnwod wr wr 0
TRACE PROPERTY nmos_rf_25_nodnwod lr lr 0
TRACE PROPERTY nmos_rf_25_nodnwod nr nr 0
TRACE PROPERTY nmos_rf_25_nodnwud wr wr 0
TRACE PROPERTY nmos_rf_25_nodnwud lr lr 0
TRACE PROPERTY nmos_rf_25_nodnwud nr nr 0
TRACE PROPERTY nmos_rf_25od wr wr 0
TRACE PROPERTY nmos_rf_25od lr lr 0
TRACE PROPERTY nmos_rf_25od nr nr 0
TRACE PROPERTY nmos_rf_25od33_6t wr wr 0
TRACE PROPERTY nmos_rf_25od33_6t lr lr 0

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```

TRACE PROPERTY nmos_rf_25od33_6t  nr nr 0
TRACE PROPERTY nmos_rf_25ud  wr wr 0
TRACE PROPERTY nmos_rf_25ud  lr lr 0
TRACE PROPERTY nmos_rf_25ud  nr nr 0
TRACE PROPERTY nmos_rf_25ud18_6t  wr wr 0
TRACE PROPERTY nmos_rf_25ud18_6t  lr lr 0
TRACE PROPERTY nmos_rf_25ud18_6t  nr nr 0
TRACE PROPERTY nmos_rf_33  wr wr 0
TRACE PROPERTY nmos_rf_33  lr lr 0
TRACE PROPERTY nmos_rf_33  nr nr 0
TRACE PROPERTY nmos_rf_33_6t  wr wr 0
TRACE PROPERTY nmos_rf_33_6t  lr lr 0
TRACE PROPERTY nmos_rf_33_6t  nr nr 0
TRACE PROPERTY nmos_rf_33_nodnw  wr wr 0
TRACE PROPERTY nmos_rf_33_nodnw  lr lr 0
TRACE PROPERTY nmos_rf_33_nodnw  nr nr 0
TRACE PROPERTY nmos_rf_6t  wr wr 0
TRACE PROPERTY nmos_rf_6t  lr lr 0
TRACE PROPERTY nmos_rf_6t  nr nr 0
TRACE PROPERTY nmos_rf_cas_nw  wr wr 0
TRACE PROPERTY nmos_rf_cas_nw  lr lr 0
TRACE PROPERTY nmos_rf_cas_nw  nr nr 0
TRACE PROPERTY nmos_rf_cas_nw  wrr wrr 0
TRACE PROPERTY nmos_rf_cas_nw  lrr lrr 0
TRACE PROPERTY nmos_rf_cas_nw  nrr nrr 0
TRACE PROPERTY nmos_rf_cross_nw  wr wr 0
TRACE PROPERTY nmos_rf_cross_nw  lr lr 0
TRACE PROPERTY nmos_rf_cross_nw  nr nr 0
TRACE PROPERTY nmos_rf_diff_nw  wr wr 0
TRACE PROPERTY nmos_rf_diff_nw  lr lr 0
TRACE PROPERTY nmos_rf_diff_nw  nr nr 0
TRACE PROPERTY nmos_rf_hvt  wr wr 0
TRACE PROPERTY nmos_rf_hvt  lr lr 0
TRACE PROPERTY nmos_rf_hvt  nr nr 0
TRACE PROPERTY nmos_rf_hvt_6t  wr wr 0
TRACE PROPERTY nmos_rf_hvt_6t  lr lr 0
TRACE PROPERTY nmos_rf_hvt_6t  nr nr 0
TRACE PROPERTY nmos_rf_hvt_nodnw  wr wr 0
TRACE PROPERTY nmos_rf_hvt_nodnw  lr lr 0
TRACE PROPERTY nmos_rf_hvt_nodnw  nr nr 0
TRACE PROPERTY nmos_rf_lvt  wr wr 0
TRACE PROPERTY nmos_rf_lvt  lr lr 0
TRACE PROPERTY nmos_rf_lvt  nr nr 0
TRACE PROPERTY nmos_rf_lvt_6t  wr wr 0
TRACE PROPERTY nmos_rf_lvt_6t  lr lr 0
TRACE PROPERTY nmos_rf_lvt_6t  nr nr 0
TRACE PROPERTY nmos_rf_lvt_nodnw  wr wr 0
TRACE PROPERTY nmos_rf_lvt_nodnw  lr lr 0
TRACE PROPERTY nmos_rf_lvt_nodnw  nr nr 0
TRACE PROPERTY nmos_rf_mlvt  wr wr 0
TRACE PROPERTY nmos_rf_mlvt  lr lr 0
TRACE PROPERTY nmos_rf_mlvt  nr nr 0
TRACE PROPERTY nmos_rf_mlvt_6t  wr wr 0
TRACE PROPERTY nmos_rf_mlvt_6t  lr lr 0
TRACE PROPERTY nmos_rf_mlvt_6t  nr nr 0
TRACE PROPERTY nmos_rf_mlvt_nodnw  wr wr 0
TRACE PROPERTY nmos_rf_mlvt_nodnw  lr lr 0
TRACE PROPERTY nmos_rf_mlvt_nodnw  nr nr 0
TRACE PROPERTY nmos_rf_na18  wr wr 0
TRACE PROPERTY nmos_rf_na18  lr lr 0
TRACE PROPERTY nmos_rf_na18  nr nr 0

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TRACE PROPERTY nmos_rf_nodnw wr wr 0
TRACE PROPERTY nmos_rf_nodnw lr lr 0
TRACE PROPERTY nmos_rf_nodnw nr nr 0
TRACE PROPERTY nmos_rf_rdk wr wr 0
TRACE PROPERTY nmos_rf_rdk lr lr 0
TRACE PROPERTY nmos_rf_rdk nr nr 0
TRACE PROPERTY nmoscap wr wr 0
TRACE PROPERTY nmoscap lr lr 0
TRACE PROPERTY nmoscap_18 wr wr 0
TRACE PROPERTY nmoscap_18 lr lr 0
TRACE PROPERTY nmoscap_25 wr wr 0
TRACE PROPERTY nmoscap_25 lr lr 0
TRACE PROPERTY nmoscap_33 wr wr 0
TRACE PROPERTY nmoscap_33 lr lr 0
TRACE PROPERTY nmoscap_lpg wr wr 0
TRACE PROPERTY nmoscap_lpg lr lr 0
TRACE PROPERTY pdio_hia_rf al al 0
TRACE PROPERTY pdio_hia_rf aw aw 0
TRACE PROPERTY pmos_rf wr wr 0
TRACE PROPERTY pmos_rf lr lr 0
TRACE PROPERTY pmos_rf nr nr 0
TRACE PROPERTY pmos_rf_18 wr wr 0
TRACE PROPERTY pmos_rf_18 lr lr 0
TRACE PROPERTY pmos_rf_18 nr nr 0
TRACE PROPERTY pmos_rf_18_5t wr wr 0
TRACE PROPERTY pmos_rf_18_5t lr lr 0
TRACE PROPERTY pmos_rf_18_5t nr nr 0
TRACE PROPERTY pmos_rf_18_nw wr wr 0
TRACE PROPERTY pmos_rf_18_nw lr lr 0
TRACE PROPERTY pmos_rf_18_nw nr nr 0
TRACE PROPERTY pmos_rf_18_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_18_nw_5t lr lr 0
TRACE PROPERTY pmos_rf_18_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_25 wr wr 0
TRACE PROPERTY pmos_rf_25 lr lr 0
TRACE PROPERTY pmos_rf_25 nr nr 0
TRACE PROPERTY pmos_rf_25_5t wr wr 0
TRACE PROPERTY pmos_rf_25_5t lr lr 0
TRACE PROPERTY pmos_rf_25_5t nr nr 0
TRACE PROPERTY pmos_rf_25_nw wr wr 0
TRACE PROPERTY pmos_rf_25_nw lr lr 0
TRACE PROPERTY pmos_rf_25_nw nr nr 0
TRACE PROPERTY pmos_rf_25_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_25_nw_5t lr lr 0
TRACE PROPERTY pmos_rf_25_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_25_nwod wr wr 0
TRACE PROPERTY pmos_rf_25_nwod lr lr 0
TRACE PROPERTY pmos_rf_25_nwod nr nr 0
TRACE PROPERTY pmos_rf_25_nwud wr wr 0
TRACE PROPERTY pmos_rf_25_nwud lr lr 0
TRACE PROPERTY pmos_rf_25_nwud nr nr 0
TRACE PROPERTY pmos_rf_25od wr wr 0
TRACE PROPERTY pmos_rf_25od lr lr 0
TRACE PROPERTY pmos_rf_25od nr nr 0
TRACE PROPERTY pmos_rf_25od33_5t wr wr 0
TRACE PROPERTY pmos_rf_25od33_5t lr lr 0
TRACE PROPERTY pmos_rf_25od33_5t nr nr 0
TRACE PROPERTY pmos_rf_25od33_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_25od33_nw_5t lr lr 0
TRACE PROPERTY pmos_rf_25od33_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_25ud wr wr 0

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TRACE PROPERTY pmos_rf_25ud 1r 1r 0
TRACE PROPERTY pmos_rf_25ud nr nr 0
TRACE PROPERTY pmos_rf_25ud18_5t wr wr 0
TRACE PROPERTY pmos_rf_25ud18_5t 1r 1r 0
TRACE PROPERTY pmos_rf_25ud18_5t nr nr 0
TRACE PROPERTY pmos_rf_25ud18_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_25ud18_nw_5t 1r 1r 0
TRACE PROPERTY pmos_rf_25ud18_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_33 wr wr 0
TRACE PROPERTY pmos_rf_33 1r 1r 0
TRACE PROPERTY pmos_rf_33 nr nr 0
TRACE PROPERTY pmos_rf_33_5t wr wr 0
TRACE PROPERTY pmos_rf_33_5t 1r 1r 0
TRACE PROPERTY pmos_rf_33_5t nr nr 0
TRACE PROPERTY pmos_rf_33_nw wr wr 0
TRACE PROPERTY pmos_rf_33_nw 1r 1r 0
TRACE PROPERTY pmos_rf_33_nw nr nr 0
TRACE PROPERTY pmos_rf_33_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_33_nw_5t 1r 1r 0
TRACE PROPERTY pmos_rf_33_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_5t wr wr 0
TRACE PROPERTY pmos_rf_5t 1r 1r 0
TRACE PROPERTY pmos_rf_5t nr nr 0
TRACE PROPERTY pmos_rf_hvt wr wr 0
TRACE PROPERTY pmos_rf_hvt 1r 1r 0
TRACE PROPERTY pmos_rf_hvt nr nr 0
TRACE PROPERTY pmos_rf_hvt_5t wr wr 0
TRACE PROPERTY pmos_rf_hvt_5t 1r 1r 0
TRACE PROPERTY pmos_rf_hvt_5t nr nr 0
TRACE PROPERTY pmos_rf_hvt_nw wr wr 0
TRACE PROPERTY pmos_rf_hvt_nw 1r 1r 0
TRACE PROPERTY pmos_rf_hvt_nw nr nr 0
TRACE PROPERTY pmos_rf_hvt_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_hvt_nw_5t 1r 1r 0
TRACE PROPERTY pmos_rf_hvt_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_lvt wr wr 0
TRACE PROPERTY pmos_rf_lvt 1r 1r 0
TRACE PROPERTY pmos_rf_lvt nr nr 0
TRACE PROPERTY pmos_rf_lvt_5t wr wr 0
TRACE PROPERTY pmos_rf_lvt_5t 1r 1r 0
TRACE PROPERTY pmos_rf_lvt_5t nr nr 0
TRACE PROPERTY pmos_rf_lvt_nw wr wr 0
TRACE PROPERTY pmos_rf_lvt_nw 1r 1r 0
TRACE PROPERTY pmos_rf_lvt_nw nr nr 0
TRACE PROPERTY pmos_rf_lvt_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_lvt_nw_5t 1r 1r 0
TRACE PROPERTY pmos_rf_lvt_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_mlvt wr wr 0
TRACE PROPERTY pmos_rf_mlvt 1r 1r 0
TRACE PROPERTY pmos_rf_mlvt nr nr 0
TRACE PROPERTY pmos_rf_mlvt_5t wr wr 0
TRACE PROPERTY pmos_rf_mlvt_5t 1r 1r 0
TRACE PROPERTY pmos_rf_mlvt_5t nr nr 0
TRACE PROPERTY pmos_rf_mlvt_nw wr wr 0
TRACE PROPERTY pmos_rf_mlvt_nw 1r 1r 0
TRACE PROPERTY pmos_rf_mlvt_nw nr nr 0
TRACE PROPERTY pmos_rf_mlvt_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_mlvt_nw_5t 1r 1r 0
TRACE PROPERTY pmos_rf_mlvt_nw_5t nr nr 0
TRACE PROPERTY pmos_rf_nw wr wr 0
TRACE PROPERTY pmos_rf_nw 1r 1r 0

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TRACE PROPERTY pmos_rf_nw  nr nr 0
TRACE PROPERTY pmos_rf_nw_5t wr wr 0
TRACE PROPERTY pmos_rf_nw_5t  lr lr 0
TRACE PROPERTY pmos_rf_nw_5t  nr nr 0
TRACE PROPERTY pmos_rf_rdk   wr wr 0
TRACE PROPERTY pmos_rf_rdk   lr lr 0
TRACE PROPERTY pmos_rf_rdk   nr nr 0
TRACE PROPERTY pmoscap_rf    lr lr 0
TRACE PROPERTY pmoscap_rf    wr wr 0
TRACE PROPERTY pmoscap_rf    br br 0
TRACE PROPERTY pmoscap_rf    gr gr 0
TRACE PROPERTY pmoscap_rf18  lr lr 0
TRACE PROPERTY pmoscap_rf18  wr wr 0
TRACE PROPERTY pmoscap_rf18  br br 0
TRACE PROPERTY pmoscap_rf18  gr gr 0
TRACE PROPERTY pmoscap_rf25  lr lr 0
TRACE PROPERTY pmoscap_rf25  wr wr 0
TRACE PROPERTY pmoscap_rf25  br br 0
TRACE PROPERTY pmoscap_rf25  gr gr 0
TRACE PROPERTY probe1   a a 0
TRACE PROPERTY probe1   pj pj 0
TRACE PROPERTY probe2   a a 0
TRACE PROPERTY probe2   pj pj 0
TRACE PROPERTY probe3   a a 0
TRACE PROPERTY probe3   pj pj 0
TRACE PROPERTY probe4   a a 0
TRACE PROPERTY probe4   pj pj 0
TRACE PROPERTY probe5   a a 0
TRACE PROPERTY probe5   pj pj 0
TRACE PROPERTY probe6   a a 0
TRACE PROPERTY probe6   pj pj 0
TRACE PROPERTY probe7   a a 0
TRACE PROPERTY probe7   pj pj 0
TRACE PROPERTY rfesd_rf1  lay lay 0
TRACE PROPERTY rfesd_rf2  lay lay 0
TRACE PROPERTY rfesd_rf3  lay lay 0
TRACE PROPERTY rfesd_rf4  lay lay 0
TRACE PROPERTY rfesd_rf5  lay lay 0
TRACE PROPERTY rfesd_rf6  lay lay 0
TRACE PROPERTY rfesd_rf7  lay lay 0
TRACE PROPERTY rfesd_rf8  lay lay 0
TRACE PROPERTY rm1       w w 0
TRACE PROPERTY rm1       l l 0
TRACE PROPERTY rm10      w w 0
TRACE PROPERTY rm10      l l 0
TRACE PROPERTY rm2       w w 0
TRACE PROPERTY rm2       l l 0
TRACE PROPERTY rm3       w w 0
TRACE PROPERTY rm3       l l 0
TRACE PROPERTY rm4       w w 0
TRACE PROPERTY rm4       l l 0
TRACE PROPERTY rm5       w w 0
TRACE PROPERTY rm5       l l 0
TRACE PROPERTY rm6       w w 0
TRACE PROPERTY rm6       l l 0
TRACE PROPERTY rm7       w w 0
TRACE PROPERTY rm7       l l 0
TRACE PROPERTY rm8       w w 0
TRACE PROPERTY rm8       l l 0
TRACE PROPERTY rm9       w w 0
TRACE PROPERTY rm9       l l 0

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TRACE PROPERTY rnodl 1 1 0
TRACE PROPERTY rnodl w w 0
TRACE PROPERTY rnodl_m lr lr 0
TRACE PROPERTY rnodl_m wr wr 0
TRACE PROPERTY rnodes 1 1 0
TRACE PROPERTY rnodes w w 0
TRACE PROPERTY rnodes_m lr lr 0
TRACE PROPERTY rnodes_m wr wr 0
TRACE PROPERTY rnodwo 1 1 0
TRACE PROPERTY rnodwo w w 0
TRACE PROPERTY rnodwo_m lr lr 0
TRACE PROPERTY rnodwo_m wr wr 0
TRACE PROPERTY rnpoly1 1 1 0
TRACE PROPERTY rnpoly1 w w 0
TRACE PROPERTY rnpoly1_m lr lr 0
TRACE PROPERTY rnpoly1_m wr wr 0
TRACE PROPERTY rnpolys 1 1 0
TRACE PROPERTY rnpolys w w 0
TRACE PROPERTY rnpolys_m lr lr 0
TRACE PROPERTY rnpolys_m wr wr 0
TRACE PROPERTY rnpolywo 1 1 0
TRACE PROPERTY rnpolywo w w 0
TRACE PROPERTY rnpolywo_m lr lr 0
TRACE PROPERTY rnpolywo_m wr wr 0
TRACE PROPERTY rnwod 1 1 0
TRACE PROPERTY rnwod w w 0
TRACE PROPERTY rnwod_m lr lr 0
TRACE PROPERTY rnwod_m wr wr 0
TRACE PROPERTY rnwsti 1 1 0
TRACE PROPERTY rnwsti w w 0
TRACE PROPERTY rnwsti_m lr lr 0
TRACE PROPERTY rnwsti_m wr wr 0
TRACE PROPERTY rpodl 1 1 0
TRACE PROPERTY rpodl w w 0
TRACE PROPERTY rpodl_m lr lr 0
TRACE PROPERTY rpodl_m wr wr 0
TRACE PROPERTY rpods 1 1 0
TRACE PROPERTY rpods w w 0
TRACE PROPERTY rpods_m lr lr 0
TRACE PROPERTY rpods_m wr wr 0
TRACE PROPERTY rpodwo 1 1 0
TRACE PROPERTY rpodwo w w 0
TRACE PROPERTY rpodwo_m lr lr 0
TRACE PROPERTY rpodwo_m wr wr 0
TRACE PROPERTY rppoly1 1 1 0
TRACE PROPERTY rppoly1 w w 0
TRACE PROPERTY rppoly1_m lr lr 0
TRACE PROPERTY rppoly1_m wr wr 0
TRACE PROPERTY rppoly1_rf w w 0
TRACE PROPERTY rppoly1_rf 1 1 0
TRACE PROPERTY rppoly1_rf_rdk w w 0
TRACE PROPERTY rppoly1_rf_rdk 1 1 0
TRACE PROPERTY rppolys 1 1 0
TRACE PROPERTY rppolys w w 0
TRACE PROPERTY rppolys_m lr lr 0
TRACE PROPERTY rppolys_m wr wr 0
TRACE PROPERTY rppolys_rf w w 0
TRACE PROPERTY rppolys_rf 1 1 0
TRACE PROPERTY rppolys_rf_rdk w w 0
TRACE PROPERTY rppolys_rf_rdk 1 1 0
TRACE PROPERTY rppolywo 1 1 0

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TRACE PROPERTY rppolywo w w 0
TRACE PROPERTY rppolywo_m lr lr 0
TRACE PROPERTY rppolywo_m wr wr 0
TRACE PROPERTY rppolywo_rf w w 0
TRACE PROPERTY rppolywo_rf l l 0
TRACE PROPERTY rppolywo_rf_rdk w w 0
TRACE PROPERTY rppolywo_rf_rdk l l 0
TRACE PROPERTY sbd_rf nf nf 0
TRACE PROPERTY sbd_rf w w 0
TRACE PROPERTY sbd_rf l l 0
TRACE PROPERTY sbd_rf_nw nf nf 0
TRACE PROPERTY sbd_rf_nw w w 0
TRACE PROPERTY sbd_rf_nw l l 0
TRACE PROPERTY sline_gscpw_mu l l 0
TRACE PROPERTY sline_gscpw_mu s s 0
TRACE PROPERTY sline_gscpw_mu w w 0
TRACE PROPERTY sline_gscpw_mu lay lay 0
TRACE PROPERTY sline_ms_mu l l 0
TRACE PROPERTY sline_ms_mu w w 0
TRACE PROPERTY sline_ms_mu lay lay 0
TRACE PROPERTY spiral_std_mu_z lay lay 0
TRACE PROPERTY spiral_std_mu_z w w 0.05
TRACE PROPERTY spiral_std_mu_z nr nr 0
TRACE PROPERTY spiral_std_mu_z rad rad 0
TRACE PROPERTY spiral_std_mu_z gdis gdis 0
TRACE PROPERTY spiral_std_mu_z spacing spacing 0
TRACE PROPERTY spiral_std_mu_z_rdk lay lay 0
TRACE PROPERTY spiral_std_mu_z_rdk w w 0.05
TRACE PROPERTY spiral_std_mu_z_rdk nr nr 0
TRACE PROPERTY spiral_std_mu_z_rdk rad rad 0
TRACE PROPERTY spiral_std_mu_z_rdk gdis gdis 0
TRACE PROPERTY spiral_std_mu_z_rdk spacing spacing 0
TRACE PROPERTY spiral_sym_ct_mu_z lay lay 0
TRACE PROPERTY spiral_sym_ct_mu_z w w 0.05
TRACE PROPERTY spiral_sym_ct_mu_z nr nr 0
TRACE PROPERTY spiral_sym_ct_mu_z rad rad 0
TRACE PROPERTY spiral_sym_ct_mu_z gdis gdis 0
TRACE PROPERTY spiral_sym_ct_mu_z spacing spacing 0
TRACE PROPERTY spiral_sym_ct_mu_z_rdk lay lay 0
TRACE PROPERTY spiral_sym_ct_mu_z_rdk w w 0.05
TRACE PROPERTY spiral_sym_ct_mu_z_rdk nr nr 0
TRACE PROPERTY spiral_sym_ct_mu_z_rdk rad rad 0
TRACE PROPERTY spiral_sym_ct_mu_z_rdk gdis gdis 0
TRACE PROPERTY spiral_sym_ct_mu_z_rdk spacing spacing 0
TRACE PROPERTY spiral_sym_mu_z lay lay 0
TRACE PROPERTY spiral_sym_mu_z w w 0.05
TRACE PROPERTY spiral_sym_mu_z nr nr 0
TRACE PROPERTY spiral_sym_mu_z rad rad 0
TRACE PROPERTY spiral_sym_mu_z gdis gdis 0
TRACE PROPERTY spiral_sym_mu_z spacing spacing 0
TRACE PROPERTY spiral_sym_mu_z_rdk lay lay 0
TRACE PROPERTY spiral_sym_mu_z_rdk w w 0.05
TRACE PROPERTY spiral_sym_mu_z_rdk nr nr 0
TRACE PROPERTY spiral_sym_mu_z_rdk rad rad 0
TRACE PROPERTY spiral_sym_mu_z_rdk gdis gdis 0
TRACE PROPERTY spiral_sym_mu_z_rdk spacing spacing 0
TRACE PROPERTY xjvar w w 0
TRACE PROPERTY xjvar l l 0
TRACE PROPERTY xjvar nr nr 0
TRACE PROPERTY xjvar_nw w w 0
TRACE PROPERTY xjvar_nw l l 0

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TRACE PROPERTY xjvar_nw nr nr 0

CELL COMPARISON RESULTS (TOP LEVEL)

```

      # #####
      # # #
# # # CORRECT #
# # # # \_--/
# #####
```

LAYOUT CELL NAME: Neuron
SOURCE CELL NAME: Neuron

INITIAL NUMBERS OF OBJECTS

	Layout	Source	Component Type
Ports:	9	9	
Nets:	23	23	
Instances:	90	9	* MN (4 pins)
	135	15	* MP (4 pins)
	3	3	rnodwo (2 pins)
	3	3	crtmom (3 pins)
Total Inst:	231	30	

NUMBERS OF OBJECTS AFTER TRANSFORMATION

	Layout	Source	Component Type
Ports:	9	9	
Nets:	23	23	
Instances:	9	9	MN (4 pins)
	15	15	MP (4 pins)
	3	3	rnodwo (2 pins)
	3	3	crtmom (3 pins)
Total Inst:	30	30	

* = Number of objects in layout different from number in source.

INFORMATION AND WARNINGS

	Matched Layout	Matched Source	Unmatched Layout	Unmatched Source	Component Type
	-----	-----	-----	-----	-----
Ports:	9	9	0	0	
Nets:	23	23	0	0	
Instances:	9	9	0	0	MN(NCH)
	15	15	0	0	MP(PCH)
	3	3	0	0	rnodwo
	3	3	0	0	crtmom
	-----	-----	-----	-----	
Total Inst:	30	30	0	0	

o Statistics:

225 layout mos transistors were reduced to 24.

201 mos transistors were deleted by parallel reduction.

o Initial Correspondence Points:

Ports: VDD GND CRT VIN- VIN+ VREF CRT1 CRT2 VOUT

SUMMARY

Total CPU Time: 0 sec

Total Elapsed Time: 1 sec