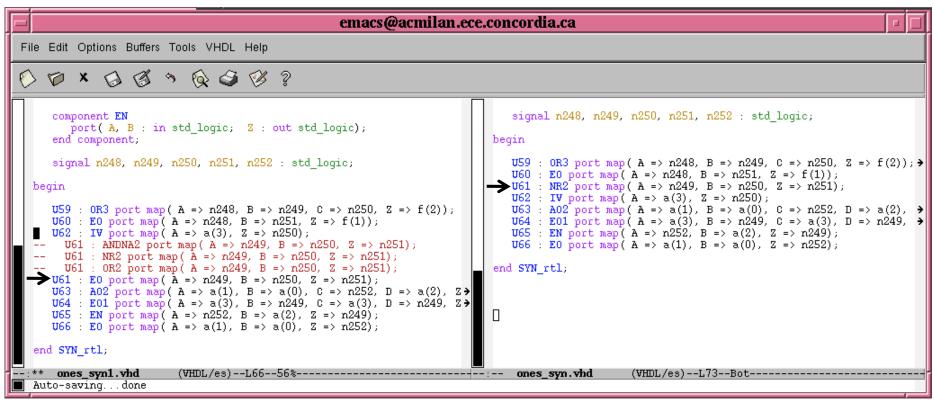
# Equivalence Checking Using Cadence Conformal LEC

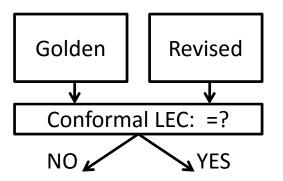
Formal Hardware Verification (COEN 6551) Summer 2016

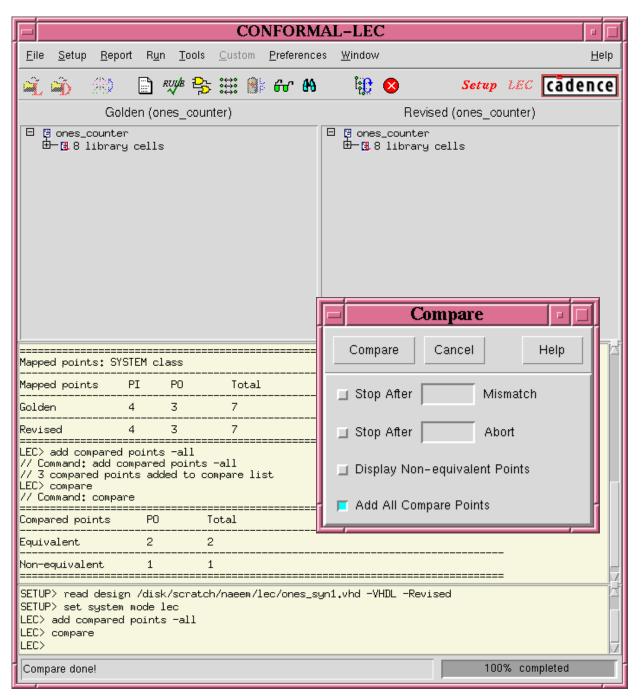
## The Golden and the Revised Designs



**Revised Design** 

Golden Design





- In the SETUP mode, Load the Golden and Revised Designs
- 2. Change System Mode to LEC
- 3. Add all ports as compare points
- 4. Compare

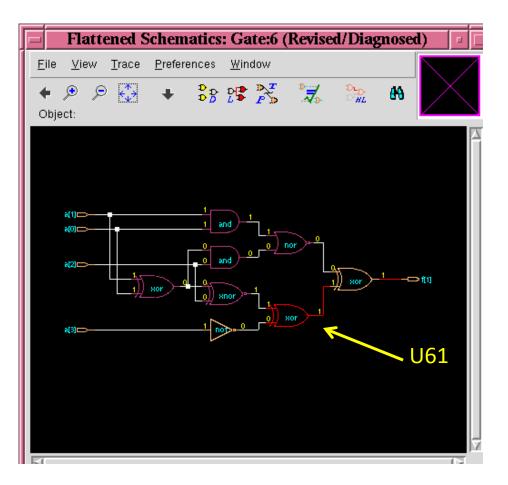
## Report $\rightarrow$ Mapped Points

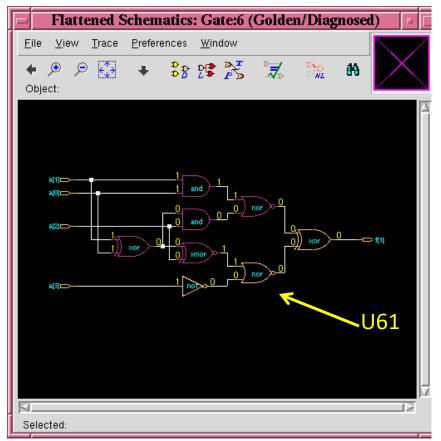
	CONFORMAL-LEC Mapping Manager								
	OK Cancel Refresh Window Schematics Preferences								
	Compared P	oints		Support Size				2 8 0	1855 🗙 🏧
	🔾 (+) PO	5	f[2]		(+) PO	5	f[2]		A
Diagnose	🔴 (+) PO	6	f[1]		(+) PO	6	f[1]		
	🔾 (+) PO	7	f[0]		(+) PO	7	f[0]		
ĺ	<u>م</u>			5	4				

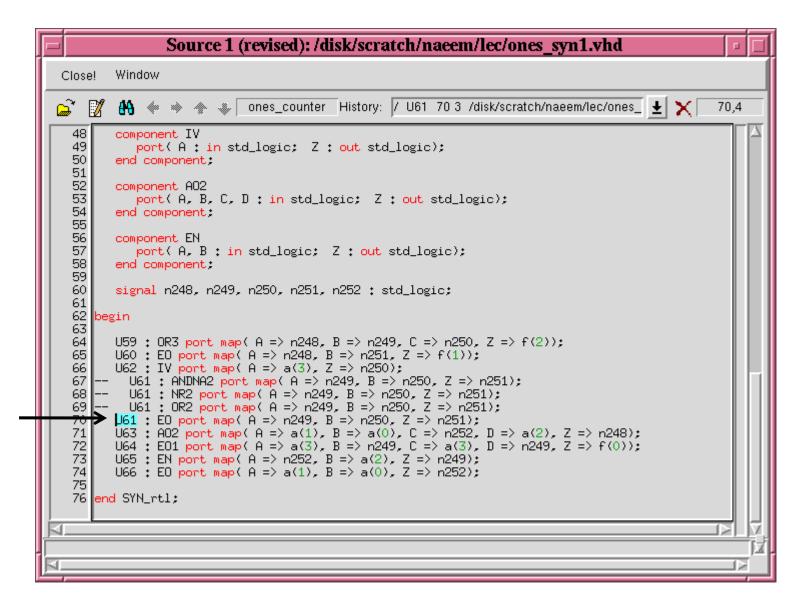
CONFORMAL-LEC Diagnosis Manager								
OK Cancel Refresh Window	Schematics Preferences	Help						
Compared Point Golden PO 6 f[1]	Revised PO 6 f[1]	ـــــــــــــــــــــــــــــــــــــ						
Diagnosis Point (active) Golden (O) PO 6 fE13	Revised (1) PO 6 fE13							
Diagnosis Points (inputs)		89						
<b>D</b>		<u>, yst</u>						
Corresponding Support		<del>60</del>						
(1) PI 1 aE33 (0) PI 2 aE23 (1) PI 3 aE13 (1) PI 4 aE03	(1) PI 1 a[3] (0) PI 2 a[2] (1) PI 3 a[1] (1) PI 4 a[0]							
Non-corresponding Support								
Error Pattern	Error Candidate							
1: 1011   2: 0010   3: 1000   4: 1001   5: 1100   6: 0100   7: 1010   8: 1110   9: 1101   10: 1111   11: 0001	(1.00) XOR 15 U61/U≉1							

## LEC Diagnosis Manager Lists the failed compare point

## **Golden and Revised Schematics**







Fix the Code and Rerun the Verification