

A	B	C	Fault	Canonicalization
0	0	0	0	
0	0	1	1	$\overline{A}BC$
0	1	0	1	$\overline{A}B\overline{C}$
1	0	0	1	$A\overline{B}\overline{C}$
0	1	1	1	$\overline{A}BC$
1	0	1	1	$A\overline{B}C$
1	1	0	1	$AB\overline{C}$
1	1	1	0	
$\overline{A}\overline{B}C + \overline{A}B\overline{C} + A\overline{B}\overline{C} + \overline{A}BC + A\overline{B}C + AB\overline{C}$ $\overline{A}(\overline{B}C + B\overline{C} + BC) + A(\overline{B}\overline{C} + \overline{B}C + B\overline{C})$ $\overline{A}[\overline{B}C + B(\overline{C} + C)] + A[\overline{B}(\overline{C} + C) + B\overline{C}]$ $\overline{A}(\overline{B}C + B) + A(\overline{B} + B\overline{C})$ $\overline{A}(B + C) + A(\overline{B} + \overline{C})$ $\overline{A}B + A\overline{B} + \overline{A}C + A\overline{C}$ <div>$Xor(A, B) + Xor(A, C)$</div>				
$\overline{A}\overline{B}C + \overline{A}B\overline{C} + A\overline{B}\overline{C} + \overline{A}BC + A\overline{B}C + AB\overline{C}$ $C(\overline{A}\overline{B} + \overline{A}B + A\overline{B}) + \overline{C}(\overline{A}\overline{B} + \overline{A}B + AB)$ $C[\overline{A}(\overline{B} + B) + \overline{A}\overline{B}] + \overline{C}[\overline{A}(\overline{B} + B) + \overline{A}B]$ $C(\overline{A} + \overline{A}\overline{B}) + \overline{C}(\overline{A} + \overline{A}B)$ $C(\overline{A} + \overline{B}) + \overline{C}(\overline{A} + B)$ $\overline{A}C + A\overline{C} + \overline{B}C + B\overline{C}$ <div>$Xor(A, C) + Xor(B, C)$</div>				
$\overline{A}\overline{B}C + \overline{A}B\overline{C} + A\overline{B}\overline{C} + \overline{A}BC + A\overline{B}C + AB\overline{C}$ $\overline{B}(\overline{A}C + A\overline{C} + AC) + B(\overline{A}\overline{C} + \overline{A}C + A\overline{C})$ $\overline{B}[\overline{A}C + A(\overline{C} + C)] + B[\overline{A}(\overline{C} + C) + A\overline{C}]$ $\overline{B}(\overline{A}C + A) + B(\overline{A} + A\overline{C})$ $\overline{B}(A + C) + B(\overline{A} + \overline{C})$ $\overline{A}B + A\overline{B} + \overline{B}C + B\overline{C}$ <div>$Xor(A, B) + Xor(B, C)$</div>				

A	B	C	Shutdown	Canonicalization
0	0	0	0	
0	0	1	0	
0	1	0	0	
1	0	0	0	
0	1	1	1	$\overline{A}BC$
1	0	1	1	$A\overline{B}C$
1	1	0	1	$AB\overline{C}$
1	1	1	1	ABC
$\overline{A}BC + A\overline{B}C + AB\overline{C} + ABC$ $C(\overline{A}B + A\overline{B}) + AB(\overline{C} + C)$ <div>$AB + C[Xor(A, B)]$</div>				

