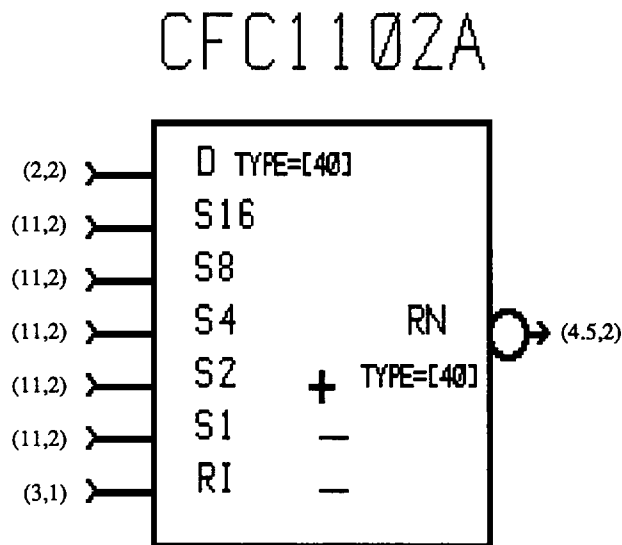


**GENERAL DESCRIPTION: 40-BIT, ARITHMETIC, MAX SHIFT 31, 0/1 FILL, LEFT SHIFT ONLY**

CFC1102A performs a 40-bit left shift with backfill of '0' or '1' depending on RI input. Select signals (S16, S8, S4, S2, S1) set the number of bits to be shifted (MAX. shift is 31). All outputs are out-of-phase with the inputs.

**PIN CONNECTION DIAGRAM:****FEATURES:**

- Shift left
- With '1' or '0' backfilled

**EQUIVALENT USED GATES: 476 GATES**  
(for rough area estimates)

**THIS MEGAFUNCTION CONSISTS OF :**  
476 soft-coded gates.

**POWER: NOT AVAILABLE.**

**FAULT COVERAGE(%): 100%**



```

|3333333322222222221111111119876543210NN
|7654321098765432109876543210
|
0 0 0 1 1 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNII
|33333332222222221111111119876543210NNN
|654321098765432109876543210
|
0 0 1 0 0 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIII
|3333332222222221111111119876543210NNNN
|54321098765432109876543210
|
0 0 1 0 1 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIIIII
|3333322222222211111111119876543210NNNNN
|4321098765432109876543210
|
0 0 1 1 0 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIIIIII
|333322222222211111111119876543210NNNNNNN
|321098765432109876543210
|
0 0 1 1 1 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIIIIIII
|33322222222211111111119876543210NNNNNNN
|21098765432109876543210
|
0 1 0 0 0 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIIIIIII
|3322222222211111111119876543210NNNNNNNNN
|1098765432109876543210
|
0 1 0 0 1 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIIIIIII
|322222222211111111119876543210NNNNNNNNN
|098765432109876543210
|
0 1 0 1 0 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIIIIIIIII
|22222222211111111119876543210NNNNNNNNNN
|98765432109876543210
|
0 1 0 1 1 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIIIIIIIII
|2222222211111111119876543210NNNNNNNNNN
|8765432109876543210
|
0 1 1 0 0 RI |DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDRRRRRRRRRRR

```



```

1 0 1 1 0 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|111111119876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|76543210
|
1 0 1 1 1 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|11111119876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|6543210
|
1 1 0 0 0 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|111119876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|543210
|
1 1 0 0 1 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|11119876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|43210
|
1 1 0 1 0 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|1119876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|3210
|
1 1 0 1 1 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|119876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|210
|
1 1 1 0 0 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|19876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|10
|
1 1 1 0 1 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|19876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|0
|
1 1 1 1 0 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|9876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN
|
1 1 1 1 1 RI |DDDDDDDDDDDDDDDDDDRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
|NNNNNNNNNNNNNNNNNNNIIIIIIIIIIIIIIIIIIIIIIIIIIII
|876543210NNNNNNNNNNNNNNNNNNNNNNNNNNNN

```