

```
graph TD; 19BL([19:BL]) --> Leaf18AL([Leaf_18:AL]); Leaf18AL --> 18AL([18:AL]); 18AL --> 19BL;
```

19:BL
q <= (load)? data :
(amount == 2'b00)? { q[62:0], 1'b0 } :
(amount == 2'b10)? { q[62:0], 8'h00 } :
(amount == 2'b01)? { 32'h00000000, q[63:1] } :
(amount == 2'b11)? { 32'h00000000, q[63:8] } : data;

Leaf_18:AL

18:AL