

15:AS
b_signed = { b[6:0], b[7] };



```
graph TD; Node15([15:AS  
b_signed = { b[6:0], b[7] };]) --> Node19([19:AS  
overflow = a[7] & b_signed[7] | b[7] & a[7];]); Node15 --> Node17([17:AS  
s = a + b_signed;]);
```

19:AS
overflow = a[7] & b_signed[7] | b[7] & a[7];

17:AS
s = a + b_signed;