

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

```
graph TD; N15([15:AS  
b_signed = { b[6:0], b[7] };]) --> N17([17:AS  
s = a + b_signed;]); N15 --> N19([19:AS  
overflow = a[7] & b_signed[7] & ~s[7];]); N17 --> N19;
```

17:AS
s = a + b_signed;

19:AS
overflow = a[7] & b_signed[7] & ~s[7];