**# of Calculations analysis:**

**Toeplitz by Vector**

This function performs expand Toeplitz + matrix by vector

Since it’s packed in words, there are only 256X4 multiplications

256x4:

OR + shift + AND + XOR

256:

Shift + AND

**toeplitzMatrix (Expansion**):

256X4:

2 shifts + 1 if

1 OR

256:

Shift + AND

**matByVec**:

256x4:

AND

256:

2 shifts + 2 ANDS + minus + XOR

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