```
1: mul   temp, src2, src1
2: mulh  temp1, src2, src1
3: mul   temp2, src2, src1
4: add   temp1, temp1, temp2
5: mul   temp2, src2, src1
6: add   temp1, temp1, temp2
7: mov   dst_low, temp
8: mov   dst_high, temp1
```

(a) Compiler-generated assembly

```
1: mul_low_high   dst_low_high, src1, src2
```

(b) Hand-crafted assembly