```
void top(...) {
    ...
for_mult:for (i=3;i>0;i--) {
        a[i] = b[i] * c[i];
    }
    ...
}
```

```
Rolled Loop
                                                                       Partially Unrolled Loop
                                                                                                        Unrolled Loop
                                 Read b[1]
Read b[3]
                Read b[2]
                                                 Read b[0]
                                                                     Read b[3]
                                                                                      Read b[1]
                                                                                                           Read b[3]
                                                  Read c[0]
Read c[3]
                Read c[2]
                                 Read c[1]
                                                                     Read c[3]
                                                                                      Read c[1]
                                                                                                           Read c[3]
                                                                     Read b[2]
                                                                                      Read b[0]
                                                                                                           Read b[2]
                                                                     Read c[2]
                                                                                      Read c[0]
                                                                                                           Read c[2]
                                                 Write a[0]
                                                                                                           Read b[1]
Write a[3]
                Write a[2]
                                 Write a[1]
                                                                                                           Read c[1]
                                                                                                           Read b[0]
                                                                     Write a[3]
                                                                                      Write a[1]
                                                                                                           Read c[0]
                                                                     Write a[2]
                                                                                      Write a[0]
                                                                                                           Write a[3]
                                                                                                           Write a[2]
                                                                                                           Write a[1]
                                                                                                           Write a[0]
```