

```
1 void foo(int* U, int* V, int N, int M) {  
2     int i, j;  
3     #pragma omp parallel  
4     #pragma omp single  
5     for(i = 0; i < N; i++) {  
6         #pragma omp task depend(in: V[i*M:i*M+M]) \  
7             if (5 * M > WORK_CUTOFF)  
8             for (j = 0; j < M; j++) {  
9                 U[i] += V[i*M + j];  
10            }  
11        }  
12    }
```

A diagram consisting of two lines originates from the highlighted C code line `U[i] += V[i*M + j];`. One line extends horizontally to the right and then diagonally down to the top-left corner of a rectangular callout box. The other line extends diagonally down and to the left, ending at the bottom-left corner of the same callout box.

```
movl    (%rsi,%rax,4), %r11d  
movslq  %r9d, %rbx  
addl    %r11d, (%rdi,%rbx,4)  
incl    %r10d  
incl    %eax
```