

```
1 // prodotto scalare tra 2 vettori
2 #include <omp.h>
3 #include <stdio.h>
4 #include <stdlib.h>
5
6 #define N 1000
7
8 int main (int argc, char *argv[]) {
9
10     double a[N], b[N];
11     double sum = 0.0;
12     int i;
13
14     /* Initialization */
15     #pragma omp parallel for shared(a,b) private(i)
16     for (i=0; i < N; i++)
17         a[i] = b[i] = (double)i;
18
19     /* Parallel for loop computing the sum of all products */
20     #pragma omp parallel for shared(a, b) private(i) reduction(+:sum)
21     for (i=0; i < N; i++) {
22         sum = sum + (a[i] * b[i]);
23     }
24
25     printf("    Sum = %2.1f\n",sum);
26     exit(0);
27 }
28
```