

```

main.cc
38 #pragma omp parallel
39 {
40     if (omp_get_thread_num() == 0) {
41         #pragma omp target
42         #pragma omp teams num_teams(4) thread_limit(64)
43         {
44             #pragma omp distribute parallel for
45             for (size_t i = 0; i < N; ++i) {
46                 p1[i] = l1[i] + r1[i];
47             }
48         }
49     } else if (omp_get_thread_num() == 1) {
50         #pragma omp target
51         #pragma omp teams distribute parallel for num_teams(4) thread_limit(64)
52         for (size_t i = 0; i < N; ++i) {
53             p2[i] = l2[i] + r2[i];
54         }
55     }
56 }
57 output(p1, N);
58 output(p2, N);

```

Calling Context View Callers View Flat View



| Scope | GPU_ISAMP:Sum (I) | GPU_ISAMP:Sum (E) |
|---|-------------------|-------------------|
| Experiment Aggregate Metrics | 4.79e+04 100 % | 4.79e+04 100 % |
| ▼ <program root> | 4.79e+04 100 % | |
| ▼ 516: main | 4.79e+04 100 % | |
| ▼ 38: .omp_outlined..11 | 4.79e+04 100 % | |
| ▼ 39: .omp_outlined_debug__ | 4.79e+04 100 % | |
| ▼ 41: __omp_offloading_32_c930c82_main_l41 | 4.77e+04 99.6% | 8.90e+02 1.9% |
| ▼ 42: __omp_offloading_32_c930c82_main_l41_impl__debug__ | 4.67e+04 97.7% | 3.43e+04 71.6% |
| ▼ loop at main.cc: 44 | 3.38e+04 70.6% | 3.38e+04 70.6% |
| main.cc: 44 | 3.37e+04 70.5% | 3.37e+04 70.5% |
| main.cc: 45 | 3.60e+01 0.1% | 3.60e+01 0.1% |
| ▶ 44: __kmpc_kernel_prepare_parallel | 1.80e+01 0.0% | 1.80e+01 0.0% |
| ▶ 42: __omp_kernel_initialization | 1.22e+04 25.5% | 1.15e+04 24.1% |
| main.cc: 42 | 4.57e+02 1.0% | 4.57e+02 1.0% |
| ▶ 42: __omp_offloading_32_c930c82_main_l41_impl__debug__\$_data_share | 2.02e+02 0.4% | 1.57e+02 0.3% |
| ▶ 44: kmpc for static fini | 2.37e+01 0.0% | 2.37e+01 0.0% |