

```

//Code to handle the execution of InnerLoop_task
double InnerLoop_code( int seg, void *data ) {
    // Get the kernel data
    KernelData *kernelData = (KernelData*)ttGetUserData();
    // Go through the two possible phases
    switch ( seg ) {
        // Execute component code
        case 1:
            // Execute the task component
            InnerLoop_main(
                kernelData->InnerLoop_ctx,
                kernelData->OuterLoop_ang_ref->InnerLoop_ang_ref,
                kernelData->DataHandling->DataHandling_angle_data,
                &kernelData->InnerLoop_thrust->InnerLoop_ang_err,
                &kernelData->InnerLoop_thrust->InnerLoop_Torque,
                &kernelData->InnerLoop_thrust->InnerLoop_ang_vel
            );
            // Return the WCET for the task
            return 0.001900;
        // We are done
        default:
            return FINISHED;
    }
}

```