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/*****
* FILE: omp_getEnvInfo.c
* DESCRIPTION:
*   OpenMP Example - Get Environment Information - C/C++ Version
*   The master thread queries and prints selected environment information.
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*****/

#include <omp.h>
#include <stdio.h>
#include <stdlib.h>

int main (int argc, char *argv[])
{
int nthreads, tid, procs, maxt, inpar, dynamic, nested;

/* Start parallel region */
#pragma omp parallel private(nthreads, tid)
{

/* Obtain thread number */
tid = omp_get_thread_num();

/* Only master thread does this */
if (tid == 0)
{
printf("Thread %d getting environment info...\n", tid);

/* Get environment information */
procs = omp_get_num_procs();
nthreads = omp_get_num_threads();
maxt = omp_get_max_threads();
inpar = omp_in_parallel();
dynamic = omp_get_dynamic();
nested = omp_get_nested();

/* Print environment information */
printf("Number of processors = %d\n", procs);
printf("Number of threads = %d\n", nthreads);
printf("Max threads = %d\n", maxt);
printf("In parallel? = %d\n", inpar);
printf("Dynamic threads enabled? = %d\n", dynamic);
printf("Nested parallelism supported? = %d\n", nested);

}

} /* Done */
}

```