	Margaret
Name: Notega	· WOLL
Roll Number:	101
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mate of 1-to-all broadca	st he Im -
number of processes)?	[2m]
	(7/
5.6	
essages would you expe	t the sending
LI) . P	[2m]
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	[2m]
s to all p process	i1
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1 process	
uses in OpenMP:	[3*3m]
uses in Openivir.	[5 5111]
- of thread	l currently
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	s to 1 process

- =) Critical clause has the critical section that has shared memory or variables of is used to avoid the race condition and allow several variables to share a particular war or memory.
- => Qastpoinate (vax)

  assign last value of master thread to the variable given

  This is a pointle vax which is declared in openup

  part and assies last value of master thread.
- => Scredule (static, 4)
  4 is thank size.

the same and the s	
Parallel and Distributed Computing (7A)	Name:
1 Trail 2022), Instructor: Dr. Sved M. Istera	Moleege Mesood
2022-10-25	Roll Number:
Total Marks: 15 (5*2 + 5) Time Allowed: 10 mins	191-9901
A Hipkord II	
1. Linked-List iteration was not something that could ea	isily be parallelized in OpenMP due to
/ The same of the number of fletations in	WOLVOOR
( There is no parallel while loop construct in O	nenMP
The data structure storing each node is very	large
d.) Both (a) and (b)	
<ol> <li>When the chunk size is not specified, and we use sta</li> <li>Equals 1</li> </ol>	
a. Equals 1	tic scheduling in OpenMP, the chunk size.
b. Equals total_threads	JEC,
c. Equals n/num_of_procs (where n = total iter	and the second s
Equals n/total_threads (where n = total itera	rations)
	tions)
3. With guided scheduling, the chunk size used:	
a. Neeps increasing till the size C (	
Keeps decreasing, till the size C (parameter)  C. Stays constant	is reached
d. Decreases and increases within at	
d. Decreases and increases within the range of	f size C (parameter)
When OMP DYNAMTC is not to the second	
a. The same number of threads as a second	will use:
a. The same number of threads as mentioned b. The same number of threads as mentioned c. The same number of threads as [2 * omp	in the num_threads() clause
C. The same number of the control of	III LITE OIIID SET DIM +b / ()
A dynamic adjustment algorithm to create t  5. When we computed the value of	get_num procs()]
i alia con unito ciedife i	.nreads that anti:
<ol> <li>When we computed the value of π using the Monte construct. What feature of the problem enabled us</li> </ol>	Parmice system performance
construct. What feature of the problem enabled us the Program one paradiol for the problem.	Carlo method, we did not use the
to # Pras material of the problem enabled us	to solve without needing the and
re # Pragra one Rangelel really	LE effonsed no no company the
alle of T.	is allowed us to compute the
· c	
6. What could be the output of this program?	R.W
	humlel-c
#include <iostream></iostream>	$nu. m(j) = u m(j) + j \qquad j = 0$
#include <omp.h></omp.h>	17 M
using namespace std;	0 = 13 + 0
int main() {	1 4 18 + 1
int nums[12] = { 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2 };	9 = 11 + g 1111
#Dragma omn parellel for pure three de/4) . I	(1)
<pre>#pragma omp parallel for num_threads(4) schedule(static, 3 for (int j = 0; j &lt; 12; j++) {</pre>	
nums[j] += j;	n = a + 1
int x = omp_get_thread_num();	We de la
cout << "At thread: " << x << " iteration: " << j << endl;	At thread: o itsation:
}	11 114 etc. 0 11071/21.
for (int i = 0; i < 12; i++) {	2 1 2 3 1 5 175 1 1 1
cout << nums[i] << "\t";	0,1,2 3,45 678 4,10,11
solves Or	시즘 하는 그 사이는 것 같아요. 그 얼마나 나는 그리다.
return 0;	
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