## Sheet1

## **Exercise 2**

1	
T	υ

T=N*500							
N	seq	2perhos	t 2 8pe	rhost 8			
	1000	2	1	1			
	2000	9	6	3			
	4000	41	24	9			
	5000	65	37	13			

speedup 2perhspeedup 8perlefficiency 2perh efficiency 8perhost 8

		, ,	, ,	
2	2	0.5	0.25	
1.5	3	0.375	0.375	
1.708333333	4.55555556	0.4270833333	0.5694444444	
1.756756757	5	0.4391891892	0.625	

## 2D

T=N\*100

N	seq	4perhost 4	speedup		efficiency
	100	5	1	5	1.25
	200	45	12	3.75	0.9375
	250	90	24	3.75	0.9375
	300	154	95 1.621052	263158	0.405263157894737

## 3D

Т	=	N	*2	O

N	seq	8perhost 8	spe	edup efficiency	,
	30	1	0	#DIV/0!	#DIV/0!
	40	5	1	5	0.625
	50	12	2	6	0.75
	60	25	4	6.25	0.78125

Notes:

speedup here means absolute speedup  $\rightarrow$  reference is fastest sequential version







