Step 3:- 2+ 1029

alling

general rack 3 9 19	7	
	***	51 W = 70+3
Data Distribution .		3
Same of the second	A Paragres	mallac I'd .
PE=4i-	e sa mushous	<u> </u>
	PE#0	-> PEHA
Step 1: 2+ 1024 = 3	PEH	100 Pt 27
	0540	PE41
Step 2:- 2+ 512 = 2.5	PE#0	
1024	1	42
lop 3:-	#2	~ >
Addition: 351	40 4	1
THAT I'M	7 1	/
Step 4: 2+ 1 = 2.001	42 #3	10
Step 4: 2+ 1 = 2.001	ri Labore	ir alas
	2001	No andrews No
steps:- Add 1	Janes Parkers	
		00 DE 5000
Step 6: 2+ for4 = 2.001		
Hep f : 1		
The state of the s		
Total = 522.502		0 - 1
lotal - Jan. 102		
A REAL PROPERTY OF THE PROPERT		

General formula:  $P = 2^{9}$ ,  $N = 2^{1024} = 2048 = 2^{11}$  NOTES

- Data Distribution:  $2 + \frac{2}{1024} = \frac{2}{1024} + \frac{2}{1024} = \frac{2}{1024} + \frac{2}{1024} = \frac{2}{1024} + \frac$ 

9	PE	E(2+2tr-n-10)	Total	Speedup	Efficiency
0	1	11	2044	1	100%
1	2	3	1029	1.989	99.45%
2	4	5.5	522.5	3.918	97.95%
3	8	7.45	271.75	7.533	94.98757.
4	16	9.875	148.88	13.75	85.9375%
5	32	11.9375	89.94	22.76	71.125%
6	64	13.96875	62.97	32.50	50.78125
7	128	15.984375	51.99	39.37	30,45%
8	256	14.9921875	49	41.78	16.324.
9	512	19.99609375	50	40.94	7.99%
10	1024	21.9980 4688	53	38 .62	3. FF1.

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rocessor only computes the Distributed Memory: tach

· Partitioning: - Decomposing the problem into pieces.  like Data parallelism, task parallelism, model for
• Communication: Depending on the partitioning Scheme, the amount of communication & the type of communication is determined
· Synchronaization: In order to operate in an appropriate way, the or processes may need to be synchronized
· Load Balancing: Work needs to be equally divided among the or processes in order to balance the most load and prinimize idle times.