

High performance 4

$n=256$

Ex 3.
a) Which of these Algo's are best

b) Scalability ☺

A_1 & A_3 not scalable (look at p)

A_2 & A_4 is better scalable ☺

	A_1	A_2	A_3	A_4
P	65.5k	8	256	16
T_P	1	256	16	128
S	2k	8	128	16
E_P	$\frac{1}{2}$	1	$\frac{1}{32}$	1
$P T_P$	65.5k	2k	4096	2k
Rank	F	S+	C	A

note: look at processors(p) and cost($p T_P$)

Ex 7

a) How much time does it take to find a solution.

We go right $\rightarrow 4$ min

We go left $\rightarrow 12$ min

b) 4 Since one processor per side

$$T_P=4 \quad P T_P=8 \quad T_S=12$$

$$S = \frac{T_S}{T_P} = \frac{12}{4} = \frac{4}{1} = 4$$

Left as an exercise for the reader