

Timing Analysis

n: number of chunks

k: chunk width

Operation	Cycles
Generate table	$n \cdot 2^k$
A2B conversion	n
Total	$n \cdot 2^k + n$

Given clock period = 10.

n = 4

k = 8

Generate Table Cycles

$$= \frac{\text{time write enable of RAM gets '0'} - \text{time start gets '1'}}{10}$$

$$\text{Generate Table Cycles} = \frac{10285 - 45}{10} = 1024$$

$$\text{Generate Table Cycles} = \frac{\text{time done gets '1'} - \text{time write enable gets '0'}}{10}$$

$$\text{Generate Table Cycles} = \frac{10325 - 10285}{10} = 4$$



