φ3,3

With pipelining

Tp = lenkt + (4, -1)*t where len = 24 tills

pipelined

execution

time

 $I = \underbrace{(en * 4 * t)}_{(en * t + (14 - 1) * t)} = \underbrace{4 * (en * t)}_{(en * t + 3t)}$

= 4 * (en Len+3

with pipelining

add operation is 4*len times faster.

mathematically

lim <u>Littlen</u> = 4 len >00 lent3

so with pipelining when len goes to infinity it will be 4 times faster then sequential execution.