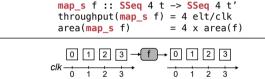
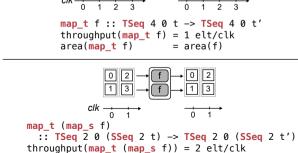
Standard, Data-Parallel Language conv_math x = map (\y -> div (tuple y 3)) (reduce add x)

1D Convolution In

```
conv1d input =
let shift_once = shift input
let shift_twice = shift shift_once
let window_tuple = map2 tuple_append
  (map2 tuple shift_once shift_twice) input
let window = map tuple_to_seq
  (partition N 1 window_tuple)
let result = map conv_math window
unpartition result
```


Different Schedules For 1D Convolution's map





 $= 2 \times area(f)$

area(map t (map s f))