benchmark results

for elm-rope

List

all

	runs / second		goodness of fit
recursive	329,895		98.81%
not (any (not …))	279,945		99.09%
not (any isBad) with let isBad = not …	279,555		98.87%
not (any (not << …))	32,377		98.97%

Rope

foldl

	runs / second		goodness of fit
custom with module-level helper	11,249		99.18%
nested	7,730		98.85%
custom	7,707		99.37%

foldr

	runs / second		goodness of fit
custom with module-level helper	7,132		98.38%
nested	6,915		99.42%
custom	5,588		98.86%

toList

	runs / second		goodness of fit
with foldr	5,651		98.05%
with foldr preserving last list	5,581		97.23%
with foldl |> reverse	5,560		99.01%

all

	runs / second		goodness of fit
nested	2,738,366		98.42%
not (any (not …))	2,391,651		98.21%

sum (also applies to product)

	runs / second		goodness of fit
nested	12,755		98.32%
with foldl	7,209		98.45%
with foldr	6,479		98.94%

minimum (also applies to maximum)

	runs / second		goodness of fit
with nested fold	6,531		98.8%
with filterMap	5,814		99.07%
with foldr	3,507		98.82%
with foldl	3,465		98.4%

reverse

	runs / second		goodness of fit
keep nested	8,861		98.65%
foldl to flat	6,522		98.58%
foldr to end to flat	2,569		97.61%

filter

	runs / second		goodness of fit
foldr to flat	5,134		98.69%
foldl |> reverse to flat	4,586		98.29%
foldl to end to flat	3,736		98.8%

	runs / second	goodness of fit
keep nested	3,327	98.65%

filterMap

	runs / second	goodness of fit
foldr to flat	4,519	98.45%
foldl |> reverse to flat	4,095	98.55%
foldl to end to flat	3,447	98.61%
keep nested	2,401	98.91%

map

	runs / second	goodness of fit
foldr to flat	4,429	98.62%
foldl |> reverse to flat	4,344	99.21%
keep nested	2,814	98.53%

indexedMap

	runs / second	goodness of fit
with foldl |> reverse	3,290	99.31%
with foldl to end	2,477	99.21%

concat

	runs / second	goodness of fit
nested	95,583	99.21%
with append	29,054	99.22%
with :: fold to Node	25,833	98.6%

concatMap

	runs / second	goodness of fit
with :: fold to Node	3,268	98.68%
with append	2,865	98.45%
nested	2,151	98.28%

length

	runs / second	goodness of fit
with foldl	7,556	99%
with foldr	6,533	98.93%
nested	6,521	98.45%

isEmpty

	runs / second	goodness of fit
nested	57,533	99.08%
with foldr	15,631	99.02%
with foldl	15,604	99.21%