benchmark results

for elm-rope

List

all

	runs / second	goodness of fit
recursive	112,248	99.33%
not (any isBad) with let isBad = not ...	39,986	99.4%
not (any (not ...))	39,706	98.9%
not (any (not << ...))	21,304	99.35%

Rope

foldl

	runs / second	goodness of fit
custom	3,865	99.06%
custom with module-level helper	3,518	98.95%
nested	3,057	99.32%

foldr

	runs / second	goodness of fit
custom with module-level helper	3,736	98.74%
custom	3,597	99.07%
nested	3,294	98.64%

toList

	runs / second	goodness of fit
with foldr	3,017	99.5%
with foldr preserving last list	2,999	98.97%
with foldl |> reverse	2,077	98.41%

all
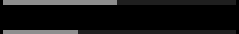
	runs / second	goodness of fit
nested	1,506,599	98.59%
not (any (not ...))	1,378,326	98.21%

sum (also applies to product)

	runs / second	goodness of fit
with foldl	4,048	98.27%
nested	3,532	98.6%
with foldr	3,277	98.96%

minimum (also applies to maximum)

	runs / second	goodness of fit
with nested fold	2,569	98.75%
with filterMap	2,220	99.12%
with foldl	2,098	98.35%
with foldr	2,019	98.83%

reverse

	runs / second	goodness of fit
foldl to flat	3,509	97.91%
keep nested	2,873	97.96%
foldr to end to flat	1,853	98.88%

filter

	runs / second	goodness of fit
foldr to flat	2,707	98.47%
foldl |> reverse to flat	2,145	98.82%
foldl to end to flat	1,977	99.05%

| keep nested | 1,870 | 98.07% |

filterMap

	runs / second	goodness of fit
foldr to flat	2,383	97.97%
foldl |> reverse to flat	1,919	97.74%
foldl to end to flat	1,770	98.93%
keep nested	1,472	98.6%

map

	runs / second	goodness of fit
foldr to flat	2,464	98.47%
foldl |> reverse to flat	1,898	98.92%
keep nested	1,609	99.26%

indexedMap

	runs / second	goodness of fit
with foldl |> reverse	1,615	98.84%
with foldl to end	1,544	99.24%

concat

	runs / second	goodness of fit
nested	58,512	99.23%
with :: fold to Node	16,921	98.67%
with append	15,069	98.95%

concatMap

	runs / second	goodness of fit
with :: fold to Node	1,768	99.31%
with append	1,413	98.56%
nested	1,220	99.07%

length

	runs / second	goodness of fit
with foldl	4,275	98.58%
with foldr	3,330	99.03%
nested	2,879	99.21%

isEmpty

	runs / second	goodness of fit
nested	20,364	98.33%
with foldl	10,020	99.23%
with foldr	6,657	98.86%