







# benchmark results



for elm-rope



## List


all	runs / second	goodness of fit
recursive	118,097 	97.78%
not (any isBad) with let isBad = not ...	63,020 	99.3%
not (any (not ...))	60,393 	98.49%
not (any (not << ...))	32,398 	98.76%





## Rope




fold -l vs -r	runs / second	goodness of fit
foldl	5,999 	99.01%
foldr	5,315 	98.86%





toList	runs / second	goodness of fit
with foldr	4,251 	98.62%
with foldr preserving last list	4,211 	99.15%
with foldl  > reverse	2,573 	98.45%




all	runs / second	goodness of fit
nested	294,305 	98.53%
not (any (not ...))	256,082 	98.94%



















sum (also applies to product)	runs / second	goodness of fit
with foldl	5,761 	99.35%
nested	5,624 	98.97%
with foldr	5,140 	99.38%

minimum (also applies to maximum)	runs / second	goodness of fit
with nested fold	3,437 	98.5%
with filterMap	2,918 	99.32%
with foldr	2,797 	98.99%
with foldl	2,657 	97.95%

reverse	runs / second	goodness of fit
foldl to flat	4,169 	97.79%
keep nested	3,665 	98.88%
foldr to end to flat	2,138 	99.14%

filter	runs / second	goodness of fit
keep nested	3,582 	98.51%
foldr to flat	3,570 	98.44%
foldl  > reverse to flat	2,893 	98.75%
foldl to end to flat	2,339 	98.6%

filterMap	runs / second	goodness of fit
foldr to flat	3,075 	98.1%
foldl  > reverse to flat	2,498 	98.52%
foldl to end to flat	2,212 	98.54%

keep nested	1,631		97.96%
map	runs / second		goodness of fit
foldr to flat	3,157		98.47%
keep nested	3,092		98.48%
foldl  > reverse to flat	2,214		98.57%
indexedMap	runs / second		goodness of fit
with foldl  > reverse	1,762		97.92%
with foldl to end	1,573		99.02%
concat	runs / second		goodness of fit
nested	107,932		99.36%
with :: fold to Node	22,621		98.78%
with append	20,871		98.42%
concatMap	runs / second		goodness of fit
with :: fold to Node	1,967		98.05%
nested	1,812		98.98%
with append	1,384		98.8%
length	runs / second		goodness of fit
nested	6,394		98.8%
with foldl	5,520		98.66%
with foldr	4,915		99.13%
isEmpty	runs / second		goodness of fit
nested	30,824		98.9%
with foldl	13,270		98.68%
with foldr	9,235		98.62%