






benchmark results




for elm-rope

List

| | runs / second | goodness of fit |
|--|--|-----------------|
| all | | |
| recursive | 218,579  | 98.69% |
| not (any (not ...)) | 218,232  | 99.26% |
| not (any isBad) with let isBad = not ... | 206,403  | 97.88% |
| not (any (not << ...)) | 19,989  | 99.41% |



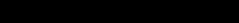
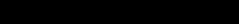
Rope

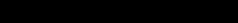
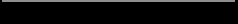

| fold -l vs -r | runs / second | goodness of fit |
|---------------|---|-----------------|
| foldl | 4,809  | 98.86% |
| foldr | 4,783  | 98.99% |

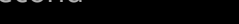



| toList | runs / second | goodness of fit |
|---------------------------------|--|-----------------|
| with foldr preserving last list | 4,510  | 98.47% |
| with foldr | 4,428  | 99.25% |
| with foldl > reverse | 3,581  | 99.02% |

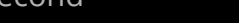

| all | runs / second | goodness of fit |
|---------------------|---|-----------------|
| not (any (not ...)) | 309,005  | 99% |
| nested | 218,833  | 99.06% |



















| sum (also applies to product) | runs / second | goodness of fit |
|-------------------------------|--|-----------------|
| nested | 8,917  | 98.74% |
| with foldr | 5,081  | 98.78% |
| with foldl | 5,003  | 98.3% |

| minimum (also applies to maximum) | runs / second | goodness of fit |
|-----------------------------------|---|-----------------|
| with nested fold | 4,029  | 98.71% |
| with filterMap | 3,756  | 98.72% |
| with foldr | 2,447  | 99.3% |
| with foldl | 2,402  | 99.18% |

| reverse | runs / second | goodness of fit |
|----------------------|---|-----------------|
| keep nested | 5,830  | 98.81% |
| foldl to flat | 4,527  | 98.83% |
| foldr to end to flat | 1,849  | 98.78% |

| filter | runs / second | goodness of fit |
|--------------------------|---|-----------------|
| foldr to flat | 3,852  | 98.93% |
| foldl > reverse to flat | 3,473  | 98.66% |
| foldl to end to flat | 2,672  | 98.81% |
| keep nested | 2,315  | 98.92% |

| filterMap | runs / second | goodness of fit |
|--------------------------|---|-----------------|
| foldr to flat | 3,254  | 98.78% |
| foldl > reverse to flat | 2,959  | 99.44% |
| foldl to end to flat | 2,344  | 98.88% |

| | | | |
|--------------------------|---------------|---|-----------------|
| keep nested | 1,494 |  | 99.06% |
| map | runs / second | | goodness of fit |
| foldr to flat | 3,113 |  | 99.17% |
| foldl > reverse to flat | 2,743 |  | 99.24% |
| keep nested | 1,848 |  | 99.23% |
| indexedMap | runs / second | | goodness of fit |
| with foldl > reverse | 1,993 |  | 99.35% |
| with foldl to end | 1,480 |  | 99.4% |
| concat | runs / second | | goodness of fit |
| nested | 60,429 |  | 98.25% |
| with :: fold to Node | 17,841 |  | 99.35% |
| with append | 17,275 |  | 98.95% |
| concatMap | runs / second | | goodness of fit |
| with :: fold to Node | 2,619 |  | 98.71% |
| nested | 1,517 |  | 98.74% |
| with append | 1,402 |  | 98.54% |
| length | runs / second | | goodness of fit |
| with foldr | 6,154 |  | 98.33% |
| with foldl | 6,016 |  | 98.52% |
| nested | 4,735 |  | 99.29% |
| isEmpty | runs / second | | goodness of fit |
| nested | 43,691 |  | 98.94% |
| with foldr | 11,478 |  | 98.42% |
| with foldl | 11,231 |  | 98.77% |