

# Lazy ramblings<sup>TM</sup> about Haskell

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# Haskell

LAZY • PURE • STRONGLY TYPED

# Haskell Platform

Cabal • GHC(i) • Hoogle • Hackage • HLint • QuickCheck

# Interesting Stuff

Accelerate • Criterion • Nix(OS) • Ganeti

# Accelerate

```
dotp :: Acc (Vector Float) -> Acc (Vector Float) -> Acc (Scalar Float)
dotp xs ys = fold (+) 0 (zipWith (*) xs ys)
```

# Criterion

```
import Criterion.Main

-- The function we're benchmarking.
fib m | m < 0      = error "negative!"
      | otherwise = go m
  where
    go 0 = 0
    go 1 = 1
    go n = go (n-1) + go (n-2)

-- Our benchmark harness.
main = defaultMain [
  bgroup "fib" [ bench "1"    $ whnf fib 1
                , bench "5"    $ whnf fib 5
                , bench "9"    $ whnf fib 9
                , bench "11"   $ whnf fib 11
                ]
]
```

# Criterion

```
$ ./Fibber --output fibber.html
benchmarking fib/1
time                23.91 ns      (23.30 ns .. 24.54 ns)
                    0.994 R²      (0.991 R² .. 0.997 R²)
mean                24.36 ns      (23.77 ns .. 24.97 ns)
std dev             2.033 ns      (1.699 ns .. 2.470 ns)
variance introduced by outliers: 88% (severely inflated)

...more output follows...
```





# Ganeti

virtual server management software tool

# More interesting stuff...

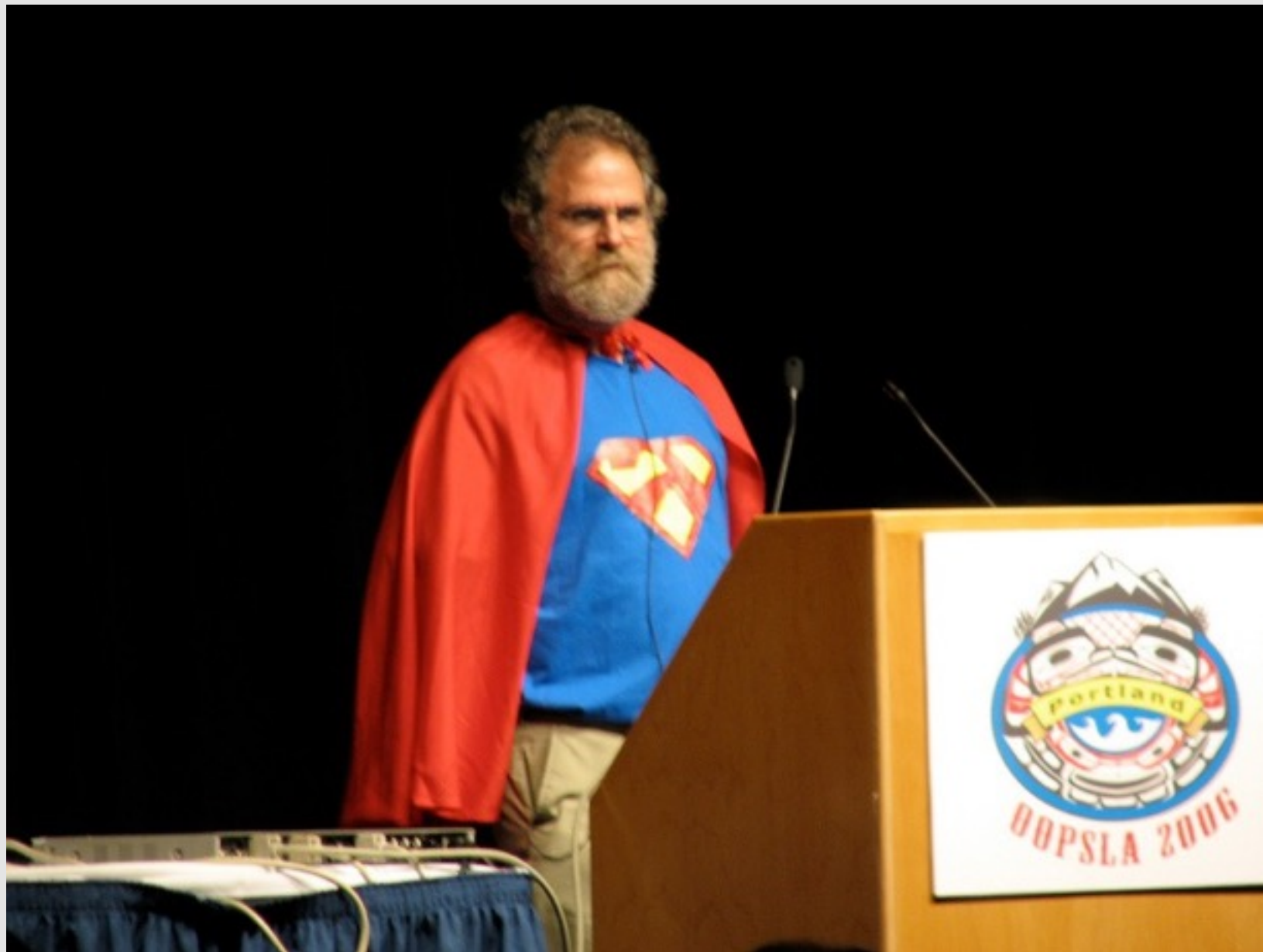
Parallelism • STM • Template Haskell • Copilot/Atom • Warp

Even more interesting stuff...

This is getting boring, I know...

Mio • Phillip Wadler • Eric Meijer • Original Haskell • Success

# Phillip Wadler



# Eric Meijer



# Haskell



**AVOID SUCCESS AT ALL COST!**

# Thanks!

[github.com/jkozlowski/haskell-presentation](https://github.com/jkozlowski/haskell-presentation)