Demo: Core Diving

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Profiling Infrastructure
The magic at work here

GHC Pipeline

- Haskell
  - Core
    - Cmm
      - LLVM
        - Exe

Advantages
Works with optimized build

Disadvantages
Stack traces even harder
Core transformations make source hard to track

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Ticks

Map

Meta

DWARF

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C-style profiler

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Compared to cost centre profiling?

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The Demonstration

Example source:
- Original author Joey Adams, posted on Stack Exchange, Code Review section
- http://codereview.stackexchange.com/questions/9998/optimizing-bytestring-escaping
Try it!

Rough How-To

1. Have Linux (sorry)
2. Get LLVM and libdwarf-dev
3. Build GHC & ThreadScope

Detailed How-To

http://github.com/scpmw/ghc/#how-to-build-and-use

... and thanks for listening!