WASM RUNTIMES

Wasm features depend on runtime implementations

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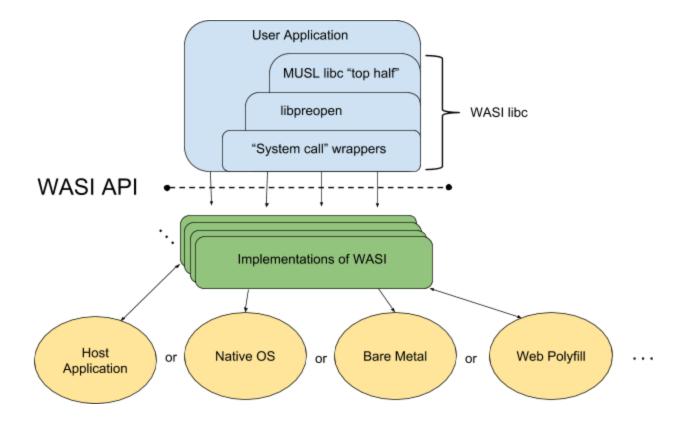
Wasm features depend on runtime implementations

```
262
          ;;; Move the offset of a file descriptor.
          ;;; Note: This is similar to `lseek` in POSIX.
263
264
          (@interface func (export "fd seek")
             (param $fd $fd)
265
266
             ;;; The number of bytes to move.
267
             (param $offset $filedelta)
             ;;; The base from which the offset is relative.
268
             (param $whence $whence)
             ;;; The new offset of the file descriptor, relative to the start of the file.
270
             (result $error (expected $filesize (error $errno)))
271
272
```

WASI-LIBC

- We already talked about quite a few of the compilation steps
- Clang with WASI-SDK compiles the C code into LLVM IR and LLVM applies optimizations to the IR
- LLVM IR is then lowered to Wasm instructions
- Object files generated are linked together using the LLD linker
- Linker links the program with wasi-libc, ensuring that standard library functions used in the C code are properly implemented

WASI-LIBC



Source: WASI-libc

WASM RUNTIMES

- Parsing and Validation
- Compile
- Execute