@0xdbb9ad1f14bf0b36; # unique file ID, generated by `capnp id`

struct Person {

name @0 :Text;

birthdate @3 :Date;

email @1 :Text;

phones @2 :List(PhoneNumber);

struct PhoneNumber {

number @0 :Text;

type @1 :Type;

enum Type {

mobile @0;

home @1;

work @2;

}

}

}

struct Date {

year @0 :Int16;

month @1 :UInt8;

day @2 :UInt8;

flags @3 :List(Bool) = [ true, false, false, true ];

}

interface Node {

isDirectory @0 () -> (result :Bool);

}

interface Directory extends(Node) {

list @0 () -> (list: List(Entry));

struct Entry {

name @0 :Text;

node @1 :Node;

}

create @1 (name :Text) -> (file :File);

mkdir @2 (name :Text) -> (directory :Directory)

open @3 (name :Text) -> (node :Node);

delete @4 (name :Text);

link @5 (name :Text, node :Node);

}

interface File extends(Node) {

size @0 () -> (size: UInt64);

read @1 (startAt :UInt64 = 0, amount :UInt64 = 0xffffffffffffffff)

-> (data: Data);

# Default params = read entire file.

write @2 (startAt :UInt64, data :Data);

truncate @3 (size :UInt64);

}