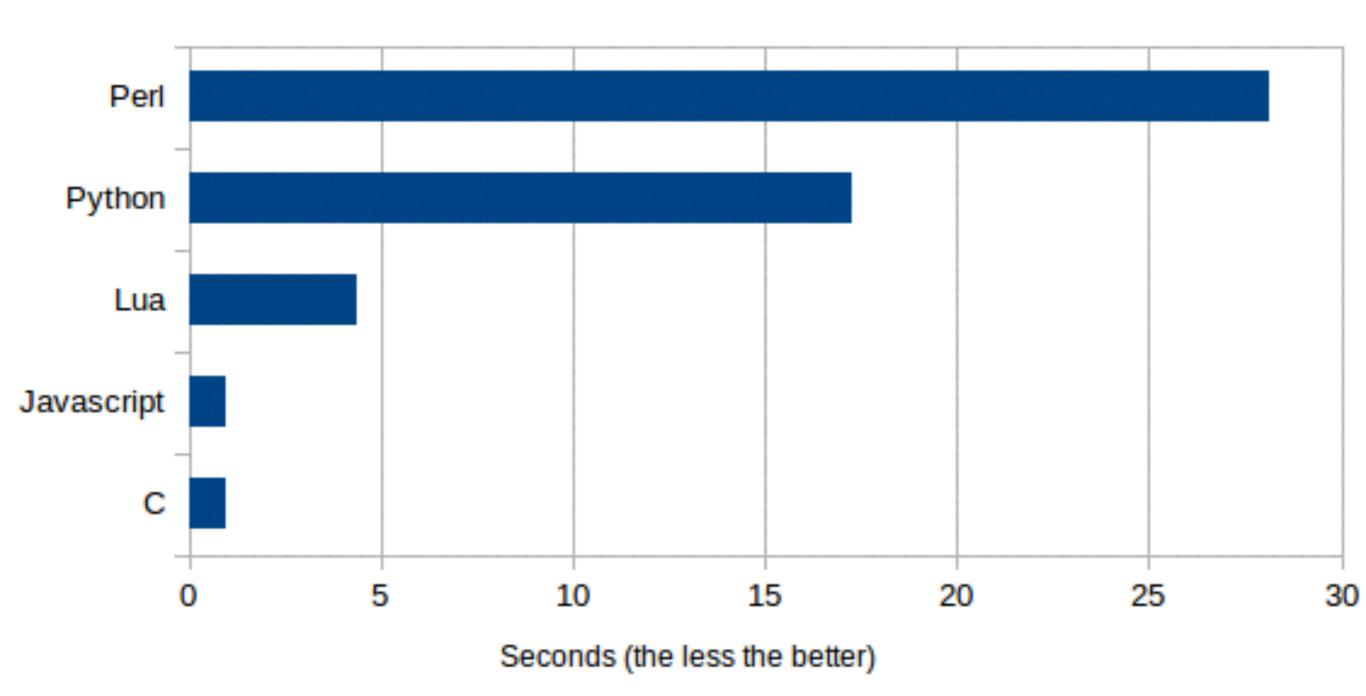


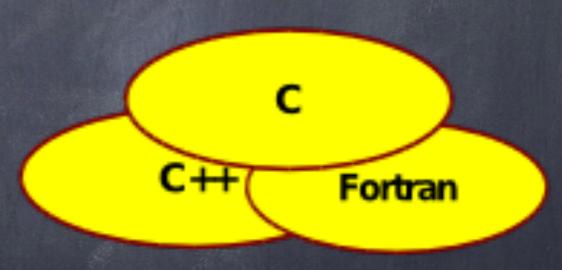




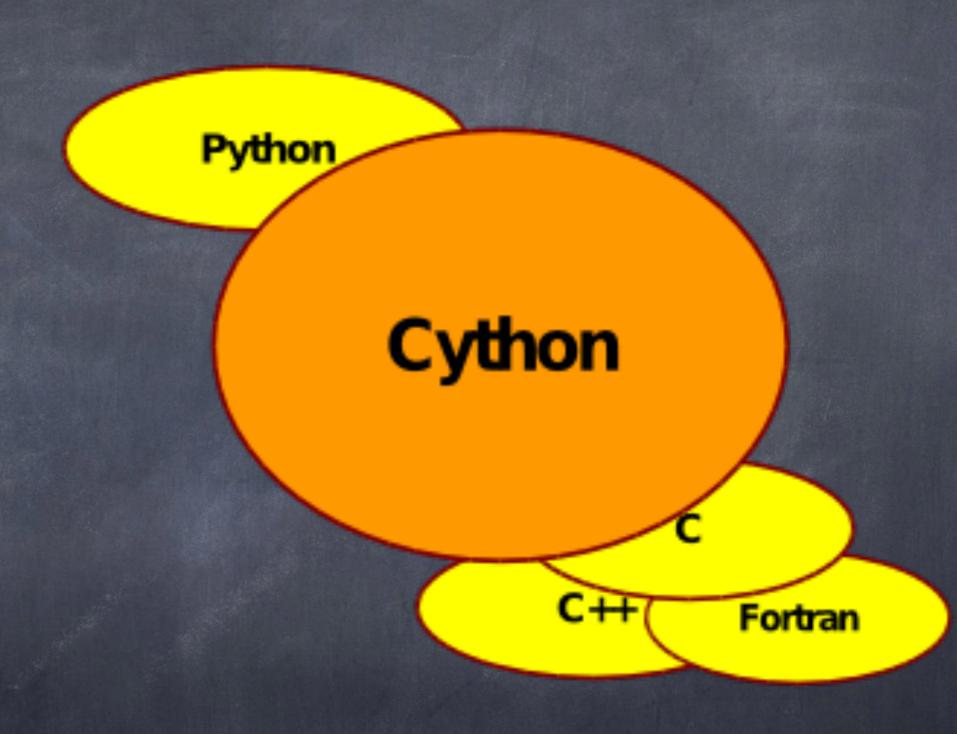
Interpreters Speed Comparison. Floating Points







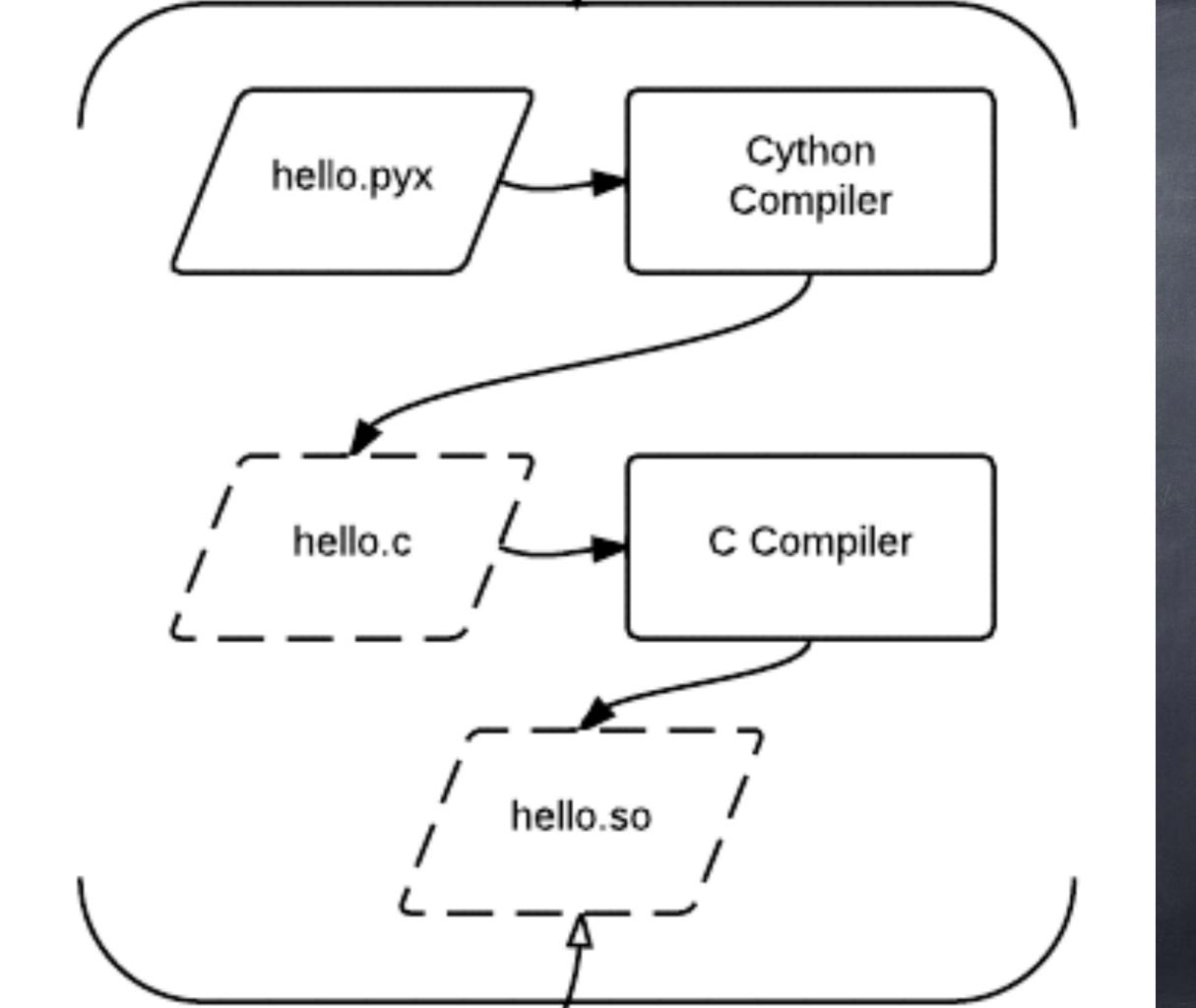
Performance





Performance

Cylhon



```
# hello.pyx - Python Module,
this code will be translated to
C by Cython.
def say_hello():
    print "Hello World!"
```

```
# launch.py - Python stub loader, loads the module that was made by Cython.
```

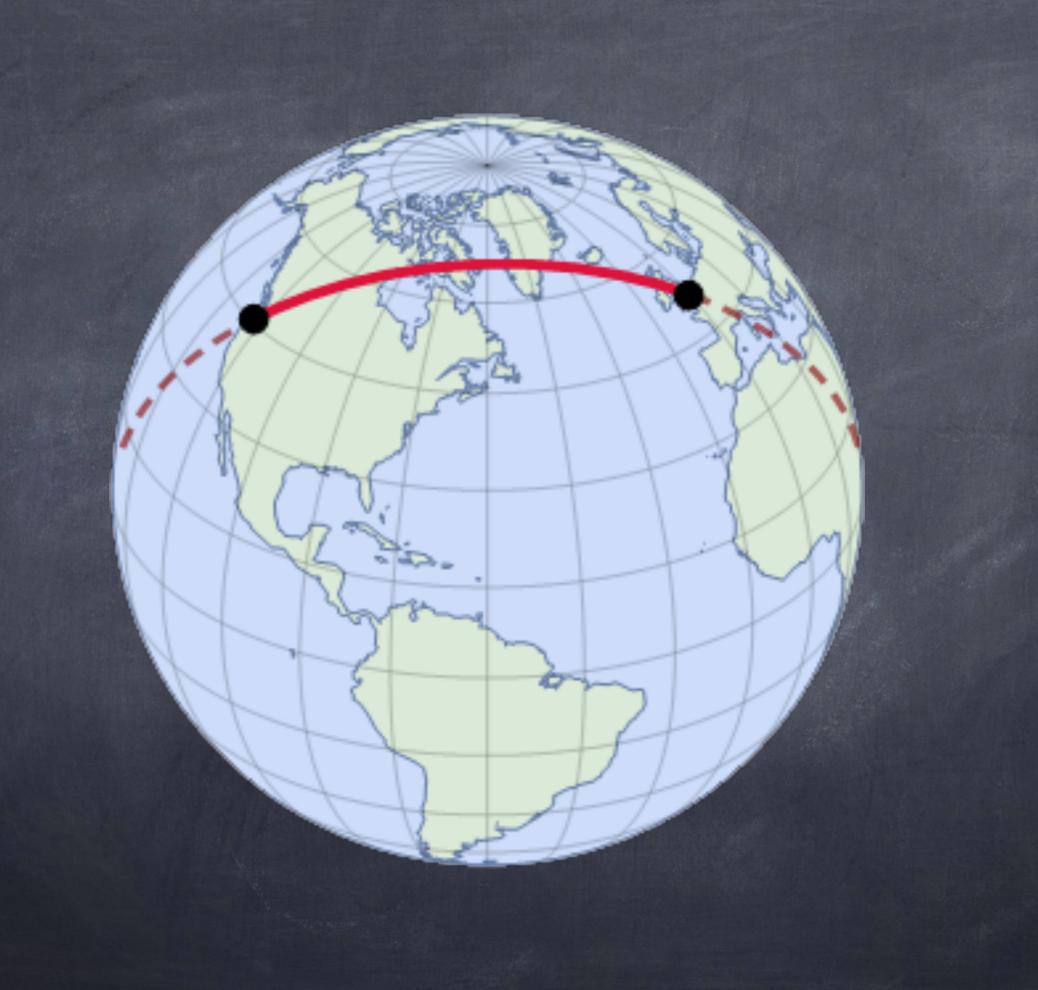
```
# This code is always interpreted,
like normal Python.
# It is not compiled to C.
```

import hello
hello.say_hello()

```
/st Generated by Cython 0.21 st/
#define PY_SSIZE_T_CLEAN
#ifndef CYTHON USE PYLONG INTERNALS
#ifdef PYLONG_BITS_IN_DIGIT
#define CYTHON_USE_PYLONG_INTERNALS 0
#else
#include "pyconfig.h"
#ifdef PYLONG_BITS_IN_DIGIT
#define CYTHON USE PYLONG INTERNALS 1
#else
#define CYTHON_USE_PYLONG_INTERNALS 0
#endif
#endif
#endif
#include "Python.h"
#ifndef Py_PYTHON_H
    #error Python headers needed to compile C extensions, please install development version of Python.
#elif PY VERSION HEX < 0 \times 020600000 \mid | (0 \times 030000000 <= PY VERSION HEX && PY VERSION HEX < <math>0 \times 03020000)
    #error Cython requires Python 2.6+ or Python 3.2+.
#else
#define CYTHON_ABI "0_21"
#include <stddef.h>
#ifndef offsetof
#define offsetof(type, member) ( (size_t) & ((type*)0) -> member )
#if !defined(WIN32) && !defined(MS_WINDOWS)
  #ifndef __stdcall
    #define __stdcall
  #endif
  #ifndef __cdecl
    #define __cdecl
  #endif
  #ifndef fastcall
    #define fastcall
  #endif
#endif
#ifndef DL IMPORT
  #define DL_IMPORT(t) t
#endif
#ifndef DL_EXPORT
  #define DL_EXPORT(t) t
#endif
#ifndef PY_LONG_LONG
```

```
/* "hello.pyx":2
* # hello.pyx - Python Module, this code will be translated to C by Cython.
* def say hello():
                   # <<<<<<<
      print "Hello World!"
/* Python wrapper */
static PyObject *__pyx_pw_5hello_1say_hello(PyObject *__pyx_self, CYTHON_UNUSED)
PyObject *unused); /*proto*/
static PyMethodDef __pyx_mdef_5hello_1say_hello = {"say_hello",
(PyCFunction)__pyx_pw_5hello_1say_hello, METH_NOARGS, ∅};
static PyObject *__pyx_pw_5hello_1say_hello(PyObject *__pyx_self, CYTHON_UNUSED)
PyObject *unused) {
 PyObject * pyx r = 0;
 __Pyx_RefNannyDeclarations
 Pyx RefNannySetupContext("say hello (wrapper)", 0);
 __pyx_r = __pyx_pf_5hello_say_hello(__pyx_self);
 /* function exit code */
   Pyx RefNannyFinishContext();
  return pyx r;
```

Now a real example



CO CACOLOCOLOCOLO



Crotchas



PREMATURE OPTIMIZATION

Come on, do it! Do it now! It feels soooo good.

Automatically compiling Cython extension?

Advanced interconnection with C?

Numpy and Cython?

Looking for bottlenecks