

Python Pickling and Wrapping

Pickling

- In order to print out objects or read them back from a file, an operation called “pickling” must be performed. This converts the object into a linear stream of bytes to be written or read.

```
import pickle  
aclass=MyClass(11)  
f=open('myresults.dat','w')  
pickle.dump(aclass,f)
```

- To restore use

```
aclass=pickle.load(f)
```

SciPy Wrapping Codes

- Numpy has f2py for Fortran.

```
f2py -c -m hello hello.f
```

Note: may not use a good compiler (will use the one Python uses to install packages). There are ways to get around this but we won't worry about them for now.

This will make a module hello.so and you can import it like any other module

```
import hello  
hello.writedata(stuff)
```

SciPy Wrapping

- C/C++
- Several tools, most popular is SWIG
<http://www.swig.org/>