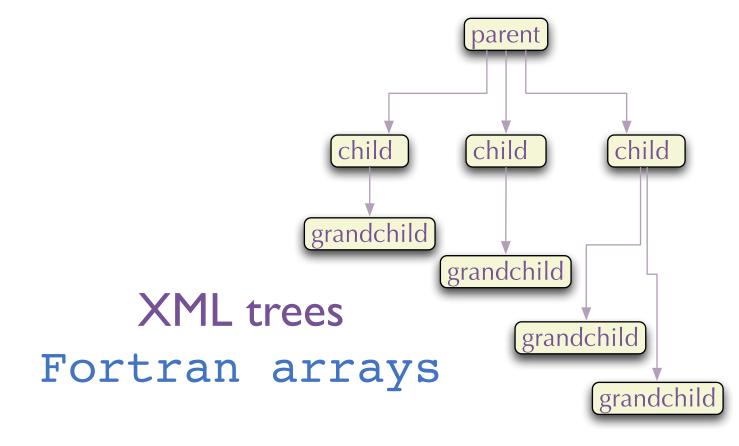
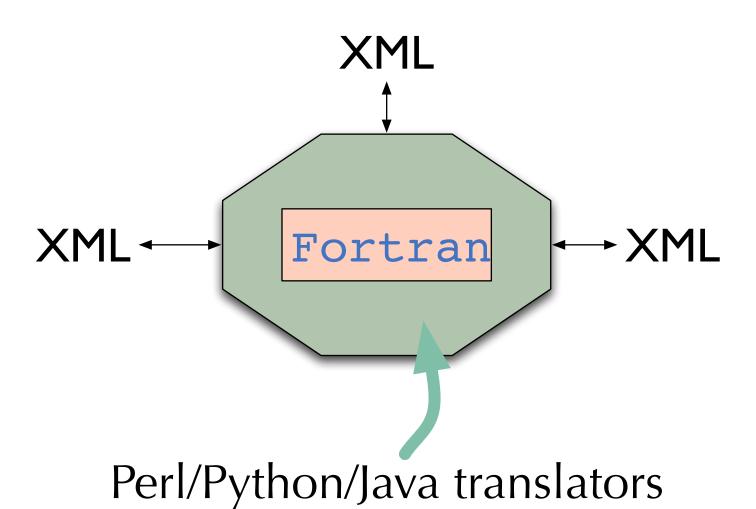
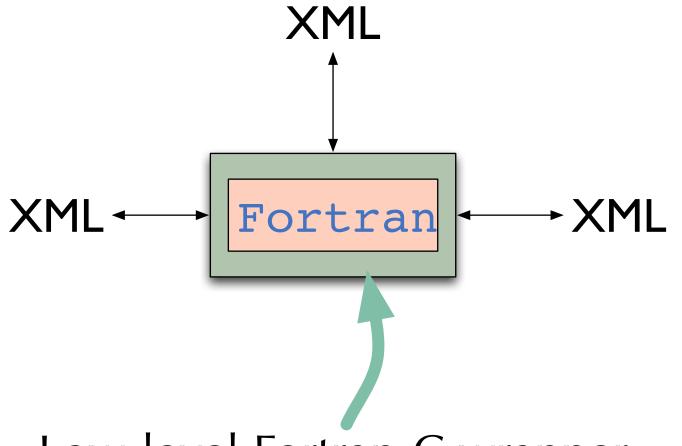
Fortran and **XML**

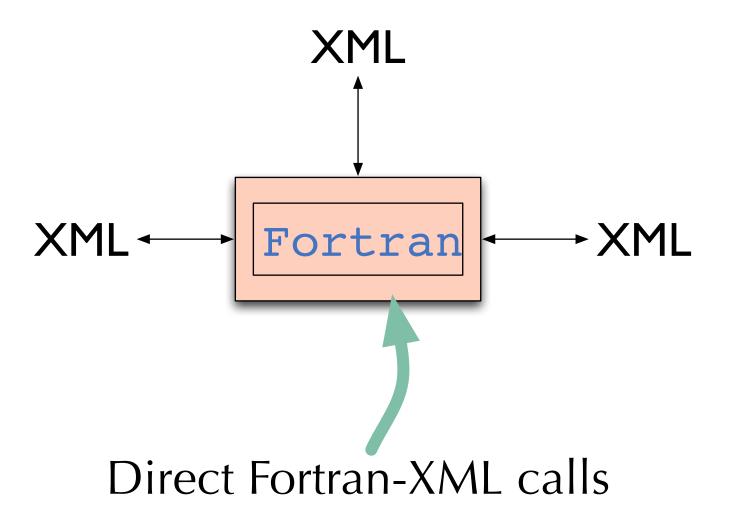


double precision x(30000), y(30000), z(30000)





Low-level Fortran-C wrapper



FoX: Fortran-XML

http://www.uszla.me.uk/FoX

http://nn-online.org/code/xml
http://sourceforge.net/projects/xml-fortran
http://sourceforge.net/projects/libxml2fortran

program science
 use FoX_wxml
...

module science use FoX_wxml

subroutine science use FoX_wxml

function science
 use FoX_wxml
...

File descriptor

```
program science
  use FoX_wxml
  type(xmlf_t) :: xf
  ...
  call xml doStuff(xf, ...
```

```
integer :: i = 20
open(i, "input.txt")
write(i, ...)
close(i)
type(xmlf t) :: xf
call xml openFile(xf, fileName, unit)
call xml doStuff(xf, ...)
```

call xml Close(xf)

Elements

</child>

<child/>

Attributes

```
<child name="Rita"/>
```

Data types

```
<child shoeSize="2"
height="1.8e0"/>
```

String Formatting

```
call xml_doStuff(xf, Number, fmt=fmt)
```

Exponential		Non-exponential	
s1	1e2	r0	3
s2	1.1e2	r1	3.1
s3	1.11e2	r2	3.14
s4	1.110e2	r3	3.142

Text

<child>This is a description of Rita
Oh, & her occupation.</child>

Namespace magic

```
call xml_DeclareNamespace(xf, &
  'http://www.w3.org/1999/xhtml')
call xml_AddElement(xf, 'html')
```

```
<html
xmlns="http://www.w3.org/1999/xhtml>
```