CSE 590o: Chapel

University of Washington
October 3, 2007
Today

- A few loose ends from last week
- TODOs
- The IJHPCA paper
Office Hours

**Office:** CSE 450  
**When:** Wed 4:30-5:30 (typically; might check to be sure)  
By appt. Wed 1:00-2:30, or possibly some other time
Who are you? (take 2)

- Name
- Interest areas (in general, for Chapel)
Where do Languages Come From?

- Lone Hardware Vendors
  - SHMEM
  - CAF
  - Java
  - APL
  - CMFortran
  - Microtasking
- Hardware Vendor Consortiums
  - OpenMP
  - F66
  - F77
  - F90/95
  - HPF
- Open-source Fanatics
  - NX, et al.
  - C
  - C++
  - Perl
  - Python
  - Ruby
  - Smalltalk
  - PVM
  - MPI
  - AC
  - SISAL
  - FortranD
  - Vienna Fortran
  - SISAL
- Government Labs
  - PCP
  - AC
  - UPC
  - VDSP

- Independent Software Vendors
  - POOMA
  - PCP
  - UPC
  - Split-C
  - Matlab
  - Mathematica
  - Maple
  - Linda
  - Maple
  - Titan
  - Academia
  - KeLP

CSE 590o: Chapel (5)
One Chapel Team Productivity Indicator…

- Track code size…
- Plus # of passing tests…
And as an additional sanity check...

track execution time of generated code...

and the compiler...
Last week’s TODOs

- **Yours:**
  - read IJHPCA paper (link to paper on course web)
  - mail proposal for earning credit to bradc@cray.com

- **Ours:**
  - set up mailing list
  - anyone not receiving course mail?
  - update course web with schedule, readings
  - install Chapel prototype compiler
    - Linux (can use recycle, bicycle, or tricycle)
    - Windows (Cygwin)
  - Mac
This Week’s TODOs

- **Yours**
  - mail in proposal for earning credit if you haven’t
  - read Language Spec, Sections 6-13, 17
  - try Chapel installation if so inclined
  - track comments on both these things, to the extent you’re willing

- **Ours**
  - put together some interesting example codes for these sections
  - finish Windows/Mac installations
The IJHPCA Paper

Three main sections:

**Wishlist:** What should a productive parallel language should do?

**Competition:** How do current languages measure up?

**Chapel Overview:** What is Chapel? How does it address our wishlist?