CSE 590o: Chapel

University of Washington October 3, 2007









Today

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

DARPA HPE



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

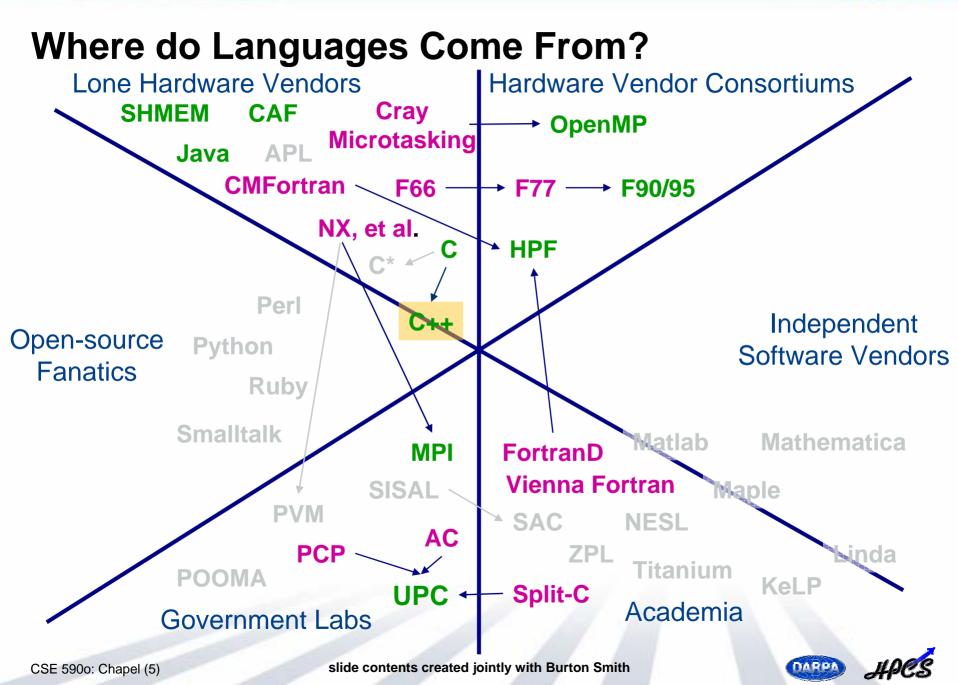


Who are you? (take 2)

- Name
- Interest areas (in general, for Chapel)

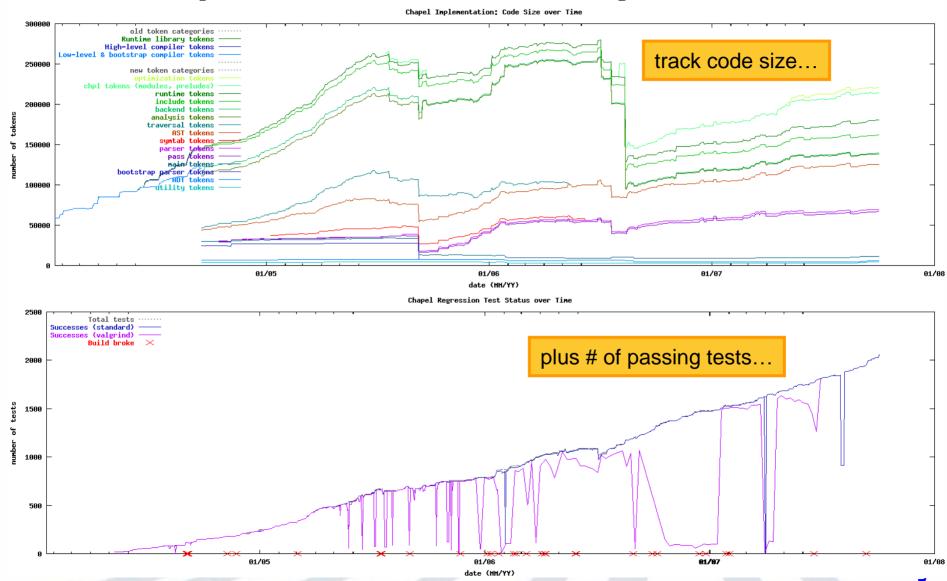
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One Chapel Team Productivity Indicator...



CSE 590o: Chapel (6)

DARPA APES



And as an additional sanity check...



DARPA





Last week's TODOs

- Yours:
 - read IJHPCA paper (link to paper on course web)
 - mail proposal for earning credit to brade@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

Date	Topics	Reading	Facilitator	Co-facilitator(s)	Presentation Materials
Sep 26	Chapel Context Seminar Organization/Goals	н	Chamberlain	+	dder
Oct 3	Chapel Motivation Language Overview	UHPCA article: Parallel Programmability and the Chapel Language	Chamberlain		
Oct 10	Chapel Bance - banc types - variable declarations - expressional/statements - type conversions - function delarational/calls - modules - tuples	Lauguage Spes. Chapters 6-13, 17	Chamberlain	-	
Oct 17	Chapel OOP & Generics records and classes usions generic classes/functions fanction resolution	Laurence Spec, Chapters 14-16, 21	Deitz	Ywsaker? (generics)	
Oct 24	Chapel Ranger, Domans, Arrayr: arthraetic, associative, sparse, opaque doman operations array operations reductions and scans	Language Spec, Chapters 18-19, 24	Chamberlain	1	
Oct 31	TBD	in.	TBD		
Nov 7	Berators and Promotion wer-level remaints: we in language concepts suplementation strategies relation to promotion	Language Spec, Chapter 20	Dežz	-	
Nov 14	Task Parallelism, Synchronization, Locality begin, cobegin, coforall rync, single variables atomic sections? locale type, on clauses	Language Spec, Chapter 22	Detz	Kamball (synchronization	0





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

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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?

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