

Q & A, Project Status, and Wrap-up



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Any Questions About the Language?



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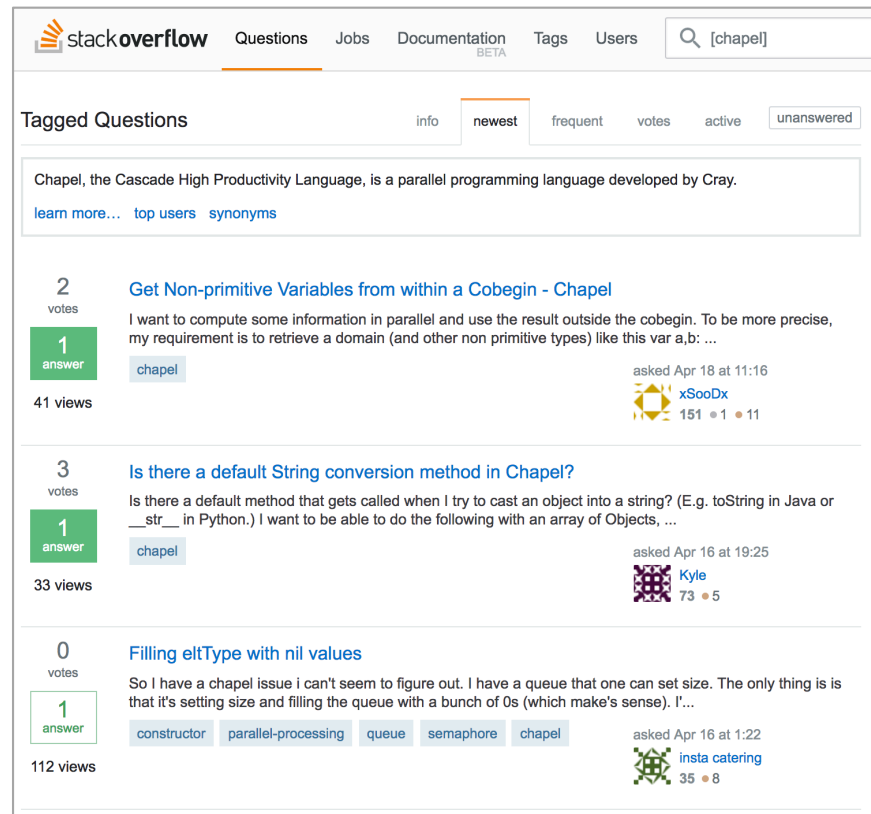
How can I...

...ask questions about the language and its usage?

Stack Overflow: [chapel] tags followed by core developers

chapel-users@lists.sourceforge.net: user-oriented discussion list

#chapel (irc.freenode.net): user-oriented IRC channel



The screenshot shows the Stack Overflow website with search results for the tag 'chapel'. The page includes a navigation bar with links to Questions, Jobs, Documentation, Tags, and Users. A search bar at the top right contains the text '[chapel]'. Below the navigation bar, there are tabs for 'Tagged Questions' and filters for 'info', 'newest', 'frequent', 'votes', 'active', and 'unanswered'. The 'newest' tab is selected. A description of Chapel is provided: 'Chapel, the Cascade High Productivity Language, is a parallel programming language developed by Cray.' Below this, three questions are listed:

- Get Non-primitive Variables from within a Cobegin - Chapel**
2 votes, 1 answer, 41 views. Asked Apr 18 at 11:16 by xSooDx (151 ● 1 ● 11).
- Is there a default String conversion method in Chapel?**
3 votes, 1 answer, 33 views. Asked Apr 16 at 19:25 by Kyle (73 ● 5).
- Filling eltType with nil values**
0 votes, 1 answer, 112 views. Asked Apr 16 at 1:22 by insta catering (35 ● 8).



How can I...

...track the project?

chapel-announce@lists.sourceforge.net: low-frequency announcements

<http://facebook.com/ChapelLanguage>: high-frequency announcements

<http://twitter.com/ChapelLanguage>: high-frequency announcements

<https://www.youtube.com/channel/UCHmm27bYjhknK5mU7ZzPGsQ/> : Chapel videos



The collage displays four screenshots of the Chapel Programming Language's social media presence:

- Facebook:** The Chapel Programming Language page, created on April 21 at 5:47pm. It features a post about the Chapel Language's performance in the Computer Language Benchmarks Game, including a box plot titled "How many times slower" comparing Chapel to other languages like C, C++, Fortran, and Java. The page has 270 people reached and a comment from Vladimir Fuka.
- Twitter:** The @ChapelLanguage profile, which has 222 tweets, 12 following, 129 followers, and 32 likes. A tweet from 5 hours ago promotes the PAW 2017 workshop and includes a link to sourceryinstitute.github.io/PAW/. The profile also mentions 115 photos and videos.
- YouTube:** The Chapel Parallel Programming Language channel, which has a video titled "SC16 Chapel Tutorial Promo" with 392 views. Another video, "Chapel Productive, Multiresolution Parallel Programming | Brad Chamberlain, Cray, Inc.", has 651 views. A third video, "CHIUV 2016 keynote: 'Chapel in the (Cosmological) Wild', Nikhil Padmanabhan", has 277 views.



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Where to..

Submit bug reports:

GitHub issues for chapel-lang/chapel: public bug forum
 chapel_bugs@cray.com: for reporting non-public bugs

Discuss Chapel development

chapel-developers@lists.sourceforge.net: developer discussions
 #chapel-developers (irc.freenode.net): developer-oriented IRC channel

Discuss Chapel's use in education

chapel-education@lists.sourceforge.net: educator discussions

Directly contact Chapel team at Cray

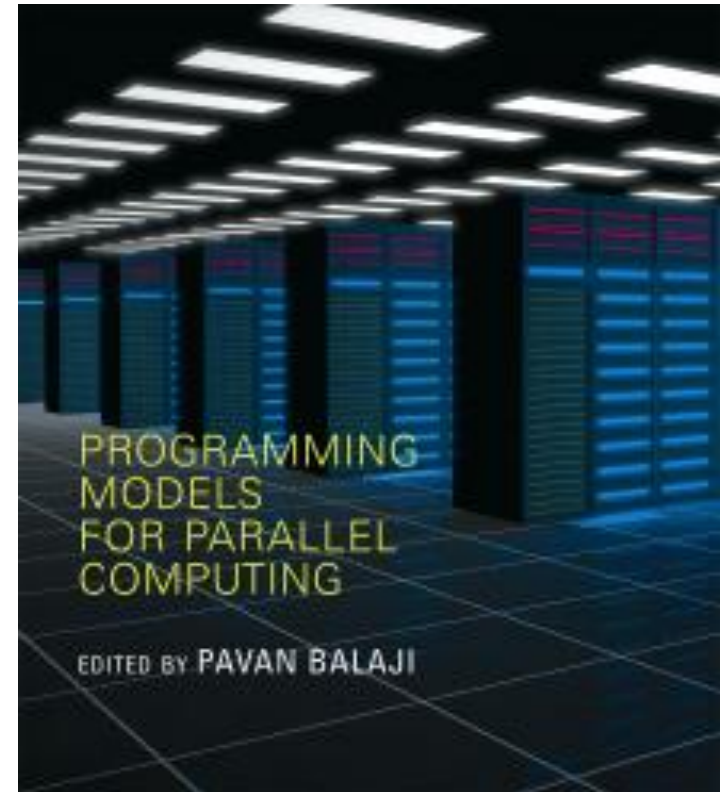
chapel_info@cray.com



Suggested Reading

Chapel chapter from [Programming Models for Parallel Computing](#)

- a detailed overview of Chapel's history, motivating themes, features
- published by MIT Press, November 2015
- edited by Pavan Balaji (Argonne)
- chapter is now also available [online](#)



Other Chapel papers/publications available at <http://chapel.cray.com/papers.html>



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Chapel Blog Articles

[Chapel: Productive Parallel Programming](#), [Cray Blog](#), May 2013.

- *a short-and-sweet introduction to Chapel*

[Six Ways to Say “Hello” in Chapel](#) (parts [1](#), [2](#), [3](#)), [Cray Blog](#), Sep-Oct 2015.

- *a series of articles illustrating the basics of parallelism and locality in Chapel*

[Why Chapel?](#) (parts [1](#), [2](#), [3](#)), [Cray Blog](#), Jun-Oct 2014.

- *a series of articles answering common questions about why we are pursuing Chapel in spite of the inherent challenges*

[\[Ten\] Myths About Scalable Programming Languages](#), [IEEE TCSC Blog](#) ([index available on chapel.cray.com “blog articles” page](#)), Apr-Nov 2012.

- *a series of technical opinion pieces designed to argue against standard reasons given for not developing high-level parallel languages*



What's Next?

- **Complete new initializer, error-handling features**
- **Continue to improve multi-locale performance & scaling**
 - particularly in the context of application codes
- **Improve support for vectorization and GPUs**
- **Revamp the compiler architecture**
 - make it more approachable to developers
 - improve compilation time
 - support separate compilation and/or incremental recompilation
 - support interactive Chapel programming (e.g., REPL / interpreter)
- **Continue growing set of libraries**
- **Deploy a package manager for Chapel**



Any Final Questions For Today?



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Don't forget!

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- Take some Chapel stickers / microfiber cloths!
- Give us your feedback (personally or online)
- Keynote talk on Thursday (some overlap, some new)



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