Q & A, Project Status, and Wrap-up
Safe Harbor Statement

This presentation may contain forward-looking statements that are based on our current expectations. Forward looking statements may include statements about our financial guidance and expected operating results, our opportunities and future potential, our product development and new product introduction plans, our ability to expand and penetrate our addressable markets and other statements that are not historical facts. These statements are only predictions and actual results may materially vary from those projected. Please refer to Cray's documents filed with the SEC from time to time concerning factors that could affect the Company and these forward-looking statements.
Any Questions About the Language?
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
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
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](http://chapel.cray.com/papers.html)
Chapel Blog Articles

- 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

- 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?
Don’t forget!

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

Information in this document is provided in connection with Cray Inc. products. No license, express or implied, to any intellectual property rights is granted by this document.

Cray Inc. may make changes to specifications and product descriptions at any time, without notice.

All products, dates and figures specified are preliminary based on current expectations, and are subject to change without notice.

Cray hardware and software products may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Cray uses codenames internally to identify products that are in development and not yet publically announced for release. Customers and other third parties are not authorized by Cray Inc. to use codenames in advertising, promotion or marketing and any use of Cray Inc. internal codenames is at the sole risk of the user.

Performance tests and ratings are measured using specific systems and/or components and reflect the approximate performance of Cray Inc. products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance.

The following are trademarks of Cray Inc. and are registered in the United States and other countries: CRAY and design, SONEXION, and URIKA. The following are trademarks of Cray Inc.: ACE, APPRENTICE2, CHAPEL, CLUSTER CONNECT, CRAYPAT, CRAYPORT, ECOPHLEX, LIBSCI, NODEKARE, THREADSTORM. The following system family marks, and associated model number marks, are trademarks of Cray Inc.: CS, CX, XC, XE, XK, XMT, and XT. The registered trademark LINUX is used pursuant to a sublicense from LMI, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis. Other trademarks used in this document are the property of their respective owners.