



Hewlett Packard
Enterprise

CHAPEL RELEASE NOTES, 1.25.1 / 1.26.0: PROPOSED PRIORITIES FOR THE NEXT SIX MONTHS



Chapel Team

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PROPOSED PRIORITIES FOR THE NEXT SIX MONTHS

- **Chapel 2.0**

- Standard module stabilization (primarily)
- Language stabilization: parallel-safe collections, first-class functions, 'import'/'use' shadowing, class ergonomics

- **'Dyno' Compiler Rework:** replace production parser, improve resolution and pass manager

- **Performance Tuning and Portability:** HPE Cray EX, AWS/EFA, GPUs, ...

- **GPU Support:** use case studies, locale model and memory types, multi-locale support

- **User Support:** Arkouda, CHAMPS, ChplUltra, ChOp, other requests and Q&A from users, ...

- **Outreach and growing the user base:** talks, CHI UW, social media, blog, papers, how-tos, ...

- **Build, Test, Release:** attempt to increase release cadence, improve test and release processes

- **LLVM Upgrade:** update to LLVM 14 to keep current

- **Mason:** improved integration with packages, testing, documentation



An aerial photograph of a winding wooden boardwalk bridge crossing a vibrant turquoise river. The bridge is made of light-colored wooden planks and curves through a lush, green landscape. On the left bank, a waterfall cascades down a mossy rock face. Several people are seen walking across the bridge. The water is exceptionally clear, revealing the riverbed below.

THANK YOU

<https://chapel-lang.org>
@ChapelLanguage

