



**Hewlett Packard
Enterprise**

CHAPEL 1.27.0/1.28.0 RELEASE NOTES: PROPOSED PRIORITIES FOR NEXT SIX MONTHS

Chapel Team

June 30, 2022 / September 15, 2022

PROPOSED PRIORITIES FOR THE NEXT SIX MONTHS

- **Chapel 2.0**

- Standard module stabilization (primarily)
- Language stabilization: ranges, parallel-safe collections, first-class functions, class ergonomics

- **'Dyno' Compiler Rework:** replace production resolution, start separate compilation effort

- **Performance Tuning and Portability:** HPE Cray EX, locale per NIC/socket, GPUs, ...

- **GPU Support:** AMD GPU support, porting and analysis of user kernels and benchmarks

- **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:** reduce triage load and noise

- **LLVM Upgrade:** update to LLVM 15 to keep current



THANK YOU

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

