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

Chapel Team
December 9, 2021 / March 31, 2022
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, CHIUW, 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
THANK YOU

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