Chapel: A Condensed Digest

Past: DARPA HPCS-funded research prototype

- Designed from first principles rather than by extension
  - supports modern features while avoiding sequential baggage
- NOT SPMD
  - global multitasking: more general; suitable for next-gen architectures
  - namespace defined by lexical scoping: more natural and intuitive
- Open source and collaborative

Present: Towards production-grade

- Performance improvements and language features
- Next-gen architectures (e.g., massively multithreaded, accelerators)
  - **come hear more at the Emerging Technologies Booth (#233)**
- New collaborations (e.g., Colorado State, AMD, ETH Zurich)
- Other application areas (e.g., Big Data, interpreted environment)
- Increase user base (e.g., Co-design Centers, universities, industry)

Future: The Chapel Foundation

- An independent entity to oversee the language specification and open source implementation
- **Come hear more at the CHUG BoF (5:30-7pm, room 383-84-85)**