



# BABEL

## Announcing Babel-0.8.8

**Gary Kumfert,  
Tamara Dahlgren, and Thomas Epperly**

***Center for Applied Scientific Computing***

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**UCRL-??????**



# Overview

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- **F90 Support; Phase III**
  - ▶ **Now uses Chasm 1.0.1 (LANL)**
- **Babel Array API Enhancements**
- **New Flags**
  - ▶ **Boyana committed her favorites**
- **Refined Behavior**
  - ▶ **Increased Version Control Friendliness**

# F90: Phase III

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# Babel Array Enhancements

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- **Increased support from 4-D to 7-D**
- **create1d[Init]( int32\_t len, T\* data)**
- **Refactored C++ array implementation**
  - ▶ **Moved to traits-based implementation, need to recompile code, but shouldn't need to edit your code**
  - ▶ **faster get/set for arrays of fixed-size types**
  - ▶ **added operator[] (for use in 1-D)**
  - ▶ **added STL input iterators (for use in 1-D)**

# New Flags

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- **-E | --exclude-external**  
restricts generation to only symbols specified on the commandline
  - ▶ Q: Future default behavior?
- **-l | --language-subdir**  
appends language-specific subdir to output generation path
- **-u | --hide-glue**  
hides non-impl files in a glue/  
subdirectory

# Refined Behavior

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- **Version Control Friendly File Generation**
  - ▶ All files are now generated in temporary directory
  - ▶ When Babel completes, temp files are copied only if `diff != 0`
- **Filename=unscoped symbol names when `--generate-subdirs` and `--exclude-external` are set**