

Library in a week 2008 – A status report

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A daily session at BoostCon '08

- Attempt to implement a significant chunk of code in a week
- We chose the topic “Algorithms”, and looked at suggestions that people had made on the original (old) boost wiki – algorithms that they felt were “missing” from boost.

The Players

- Jeff Garland
- Marshall Clow
- Jesse Williamson
- Robert Stewart

The Algorithms

- In the namespace `boost::algorithms::sequence`
- Iterator-based versions
- `boost::range`-based versions where appropriate (most algorithms)

Copying

- `copy_if` / `reverse_copy_if`
- `copy_while` / `reverse_copy_while`
- `copy` / `reverse_copy` (range versions of `std::versions`)
- `partition_copy`

Sequence Testing

- `all / all_if`
- `none / none_if`
- `any / any_if`
- `exists_and_only / exists_and_only_if`

Sequence Transformation

- `apply / apply_if` (mutates sequence)
- `transform_if` (creates new sequence)

Miscellaneous

- `for_each_if`
- `find_not_if`
- `iota`
- `select1st, select2nd`

Status

- 📌 Code written
- 📌 Unit tests written
- 📌 Documentation written
- 📌 Review requested (recently)