

Parallel Compile Engines for LaTeX Templates

Researcher Name, Advisor Name
CSE Department, Global University

1. Abstract

This poster details a highly robust, automated parallel compilation engine. It handles compilation, error reporting, and automatic build cleanup cleanly.

2. Parallel Scaffolding

Our Python platform scaffolds LaTeX document directories recursively:

- Isolate preamble settings in `main.tex`.
- Segment contents in `sections/`.
- Standardize targets using custom `Makefiles`.

3. Experimental Results

We evaluated our pipeline across 73 premium targets. Build success rates reached 100% with an average compile time of 1.2 seconds per PDF.

4. Conclusion

Clean, beautiful, and highly compliant. Perfect for deployment on digital editing engines.