



Milkyway Interoperability Forum



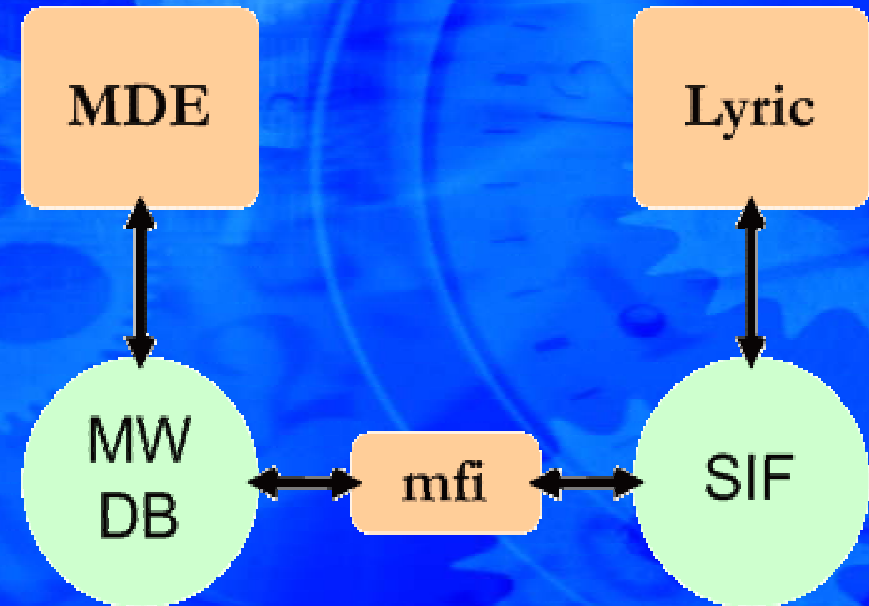
Goals

- Provide Milkyway users with access to Pulsic's powerful Lyric Physical Design Framework including shape based routing technology
 - replace LEF/DEF exchange
 - include Pulsic menu on MDE (and Milkyway menu on Lyric)
- Lyric tools work on proprietary database, not Milkyway
- LEF/DEF exchange is slow (but speed is not critical)
- MAP-in integration gives Pulsic control over data exchange
 - only export data that is required by Lyric
 - import incremental changes made by Lyric back into Milkyway



Overview

- Import/export of layout design via C API
- Separate “mfi” utility translates between Milkyway database and SIF
 - SIF is Pulsic’s proprietary format
- Two modes
 - Launch Lyric GUI from MDE
 - access all Lyric’s features
 - Save to Milkyway on exit
 - Run Lyric tools in background





Overview

■ Implementation

- Data import/export access to design database using C API
- Approx 6000 lines of C to implement bidirectional interface
- Approx 5 weeks of development work required
- Predict extra 3 weeks to complete import interface and MDE menus
- Limited access to technology information via API
 - With hindsight, read technology file directly

■ Accurate and comprehensive documentation of API

- Could improve overview of Milkyway database

■ Control over data interface is Pulsic's highest priority