Slider (.sdr): Optimization-Oriented Programming

Hybrid Academic–Business Whitepaper

Abstract: Slider (.sdr) unifies performance, safety, concurrency, and interoperability into a single optimization-first programming language.

1. Executive Summary

Slider addresses fragmentation across languages by delivering C-class performance, Rust/Ada safety, Go/Erlang concurrency, and Python readability.

2. Comparative Analysis

Lang	Perf	Safety	Concurrency	Interop	Startup
C/C++	■■■■■	■	■■	■■■	Fast
Rust	■■■■■	■■■■■	■■■	■■	Fast
Go	■■■	■■	■■■■■	■■	Fast
Ada	■■■■	■■■■■	■■	■	Moderate
Python	■	■	■	■■■■	Slow
Slider	■■■■■	■■■■	■■■■■	■■■■■	Fast

3. Use Cases

- Finance
- Telecom
- Robotics
- Gaming
- Cloud
- Scientific/HPC
- Security

4. Roadmap

- ACS I/O
- GPU backends
- Formal proofs
- Incremental compilation
- Package ecosystem

5. Conclusion

Slider represents a new epoch: optimization-first, unifying speed, safety, concurrency, and interop.