Core Capability Comparison

Capability	LLVM / GCC	MLGO / CompilerGym	Formal Compilers	MAESTRO
Performance	★★★★★	★★★★	★	★★★
Correctness enforcement	✕	✕	★★★★★	★★★★
UB awareness	✕ (exploits)	✕	★★★★★	★★★★
Security preservation	✕	✕	★★★	★★★★
Explainability	✕	✕	★★	★★★★★
Learning/adaptation	✕	★★★★	✕	★★★★
Self-refinement	✕	✕	✕	★★★★
Multi-agent design	✕	✕	✕	★★★★★
IR-level integration	★★★★★	★★★★	★★	★★★★