Key:

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Type
Bounds
Lifetime
Initialisation
Arithmetic
Thread
Definition

static/compile-time/enforced

dynamic/run-time/checked

separate-tool/external-application

non-existant

	Cmajor/JS	Swift	C++23	Circle	cpp2	iso c++
Type	Static/dynamic type system	Static type system	Static type system reinterpret_cast	Static type system	Static type system	Profile: Type*
Bounds	Enforced/checked	Checked	Asan	Checked	Checked	Profile: Ranges, Algorithms & Pointers
Lifetime	Static/ ref-counted	Value semantics & Ref-counted	Partially enforced/ Asan	Enforced borrow checker	Partially enforced/ checked	Profile: RAII
Initialisation	Default initialised	Enforced	MSan/Asan	Enforced	Enforced	Profile: Initialisation
Arithmetic	ID/defined	Trap/explicit behaviour	UBsan	Checked/ defined	Checked	Profile: Arithmetic
Thread	Single* threaded	Enforced actors & sendable	Tsan	Enforced sync/send & BC	Tsan	Tsan
Definition	Single file/modules	Modules	Modules	Modules	Modules	Modules

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