

125

Type
Bounds
Lifetime
Initialisation
Arithmetic
Thread

Cmajor/JS
Static/dynamic type system
Enforced/checked
Static/ ref-counted
Default initialised
ID/defined
Single* threaded

Swift
Static type system
Checked
Value semantics & Ref-counted
Enforced
Trap/explicit behaviour
Enforced actors & sendable

C++23
Static type system reinterpret_cast
Asan
Partially enforced/ Asan
MSan/Asan
UBsan
Tsan

Circle
Static type system
Checked
Enforced borrow checker
Enforced
Checked/ defined
Enforced sync/send & BC

cpp2

Static type
system

Checked

Partially
enforced/
checked

Enforced

Checked

Tsan

iso c++
Profile: Type*
Profile: Ranges, Algorithms & Pointers
Profile: RAI
Profile: Initialisation
Profile: Arithmetic
Tsan

126

iso c++
Profile: Type*
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Tsan