

Contents

1 C++

1.1 Initialization

1.2 Value and copy semantics

1.3 Modules

1.4 Exceptions

1.5 Idiom

RAII Resource ...

SFINAE Resource ...

2 Compiler

2.1 Parsers

2.2 Lex

2.3 Front-End

2.4 Back-End

2.5 IR

2.6 Optimization

3 dailyLog

11-24-2019 : floating points (cppcon Lavavej floating point), functional programming (Nokia), shifting vector (st: Talbot how to choose right container)

11-25-2019 :

11-26-2019 : uninitialized stack memory (Bialek), async (Niebler)

11-27-2019 : Curl for c++, orderless arguments using template, abi louis dionne cppcon, itanium abi

11-28-2019 : Translation Look-aside buffer (TLB), Global Descriptor Table (GDT), anatomy of a program in memory

12-25-2019 : tinymce, clion, gpl/lmpl/open-source/closed-source/copyright/copyleft/license/patent/trademark WYSWYG editors, derivative works, ada generics vs c++ templates, header only libraries c++, c++ template libraries(boost, eigen), type theory/type systems (ml, agda)

12-26-2019 : Haskell B. Curry, Alonzo Church, cpp compilers (godbolt.org, wandbox.org, quick-bench.com, cppinsights.io), devirtualization, undefined behavior vs implementation-defined-behavior, inline vs outline constructor, inline function multiple definitions are allowed, boost mpl, c++ brigand library, stable sort, c++ libraries(Hana, MPL, Meta, Brigand1)

```
cdr\_api assertion\_func
cg\_assert.cpp client\_assertion\_failed
assertio.cpp assertion\_failed
simulink.c void mexFunction
sfc\_sf.cpp sf\_get\_data\_values\_from\_jit\_engine
abc
```

1-1-2020 :

```
readelf -a a.o | c++filt -t
aggregate initialization
```

1. sudo apt-get