

FORTTRAN

C++

**Nested data structures
in particle physics**

HYDRA
(1973)

ZBOOK
(1974)

ZEBRA
(1983)

ROOT
(1995)

CWN
in PAW
(1989)

BOS
(1975)

YBOS
(CDF r1)

Objectivity
(c.1994-2004)

ProtoBuf
(2001)

Avro
(2009)

Arrow
(2016)

C-Store
(2005)

Parquet
(2013)

MonetDB
(2002)

Dremel
(2010)

Industry solutions

1970

1980

1990

2000

2010

2020