

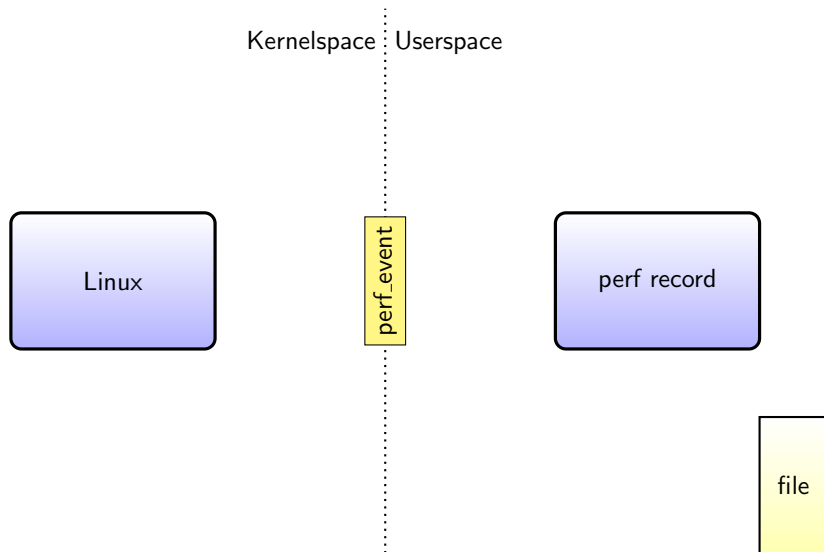
# perf file format

Urs Fässler

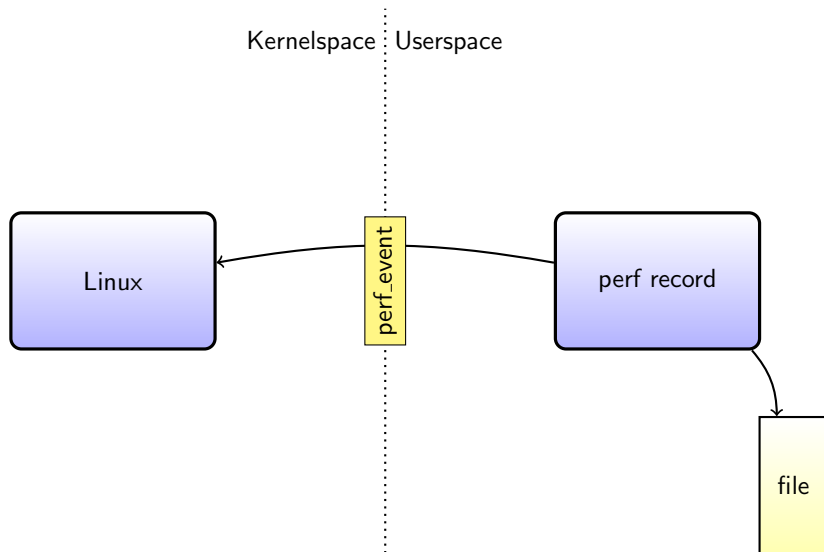
CERN Openlab

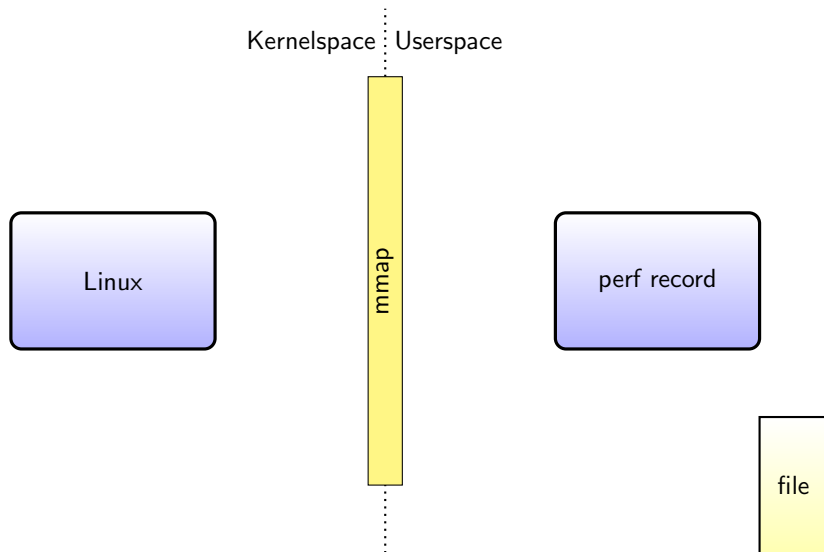
02.08.2011

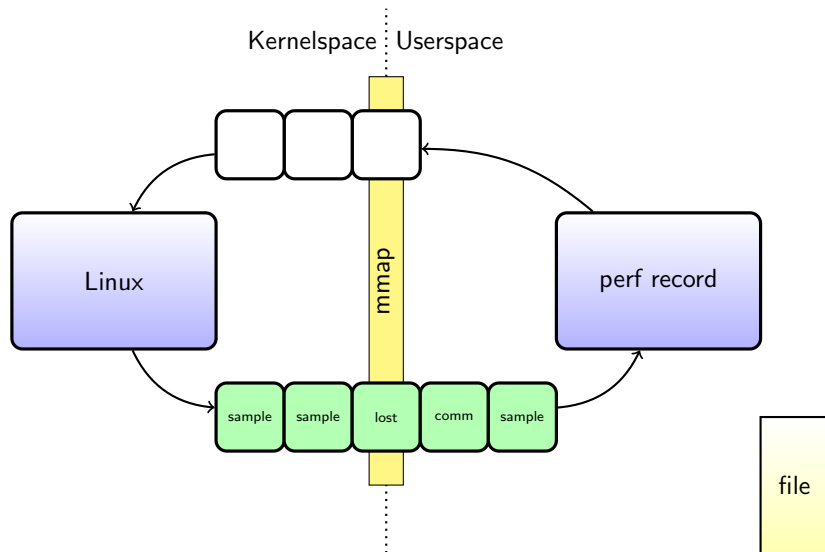
# initialization

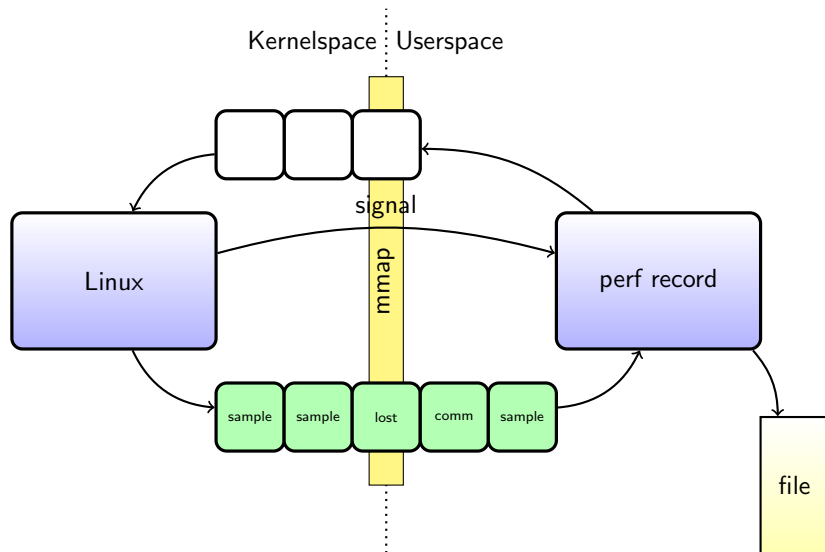


# initialization





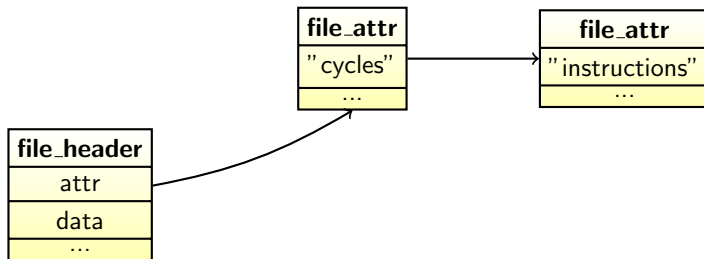




# perf file format

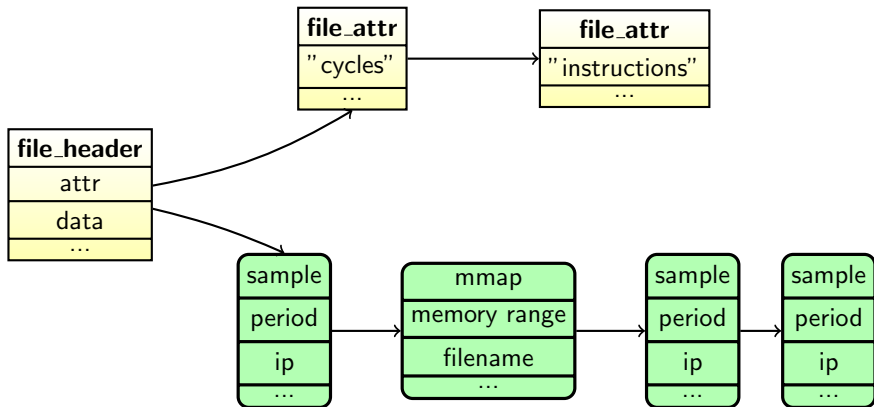
<b>file_header</b>
attr
data
...

# perf file format

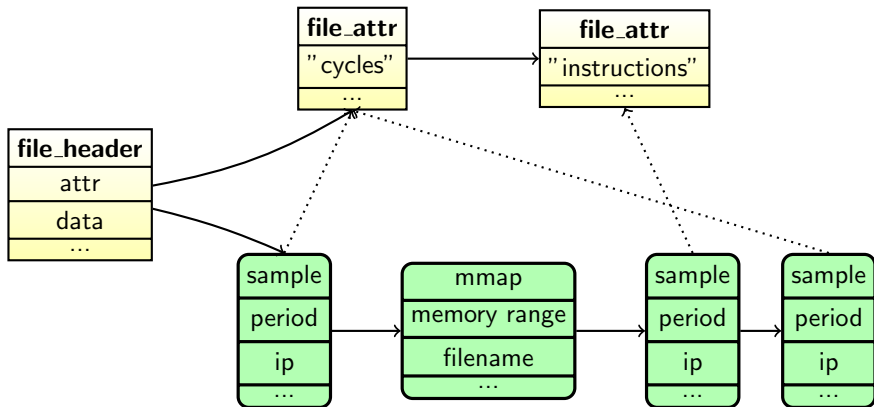




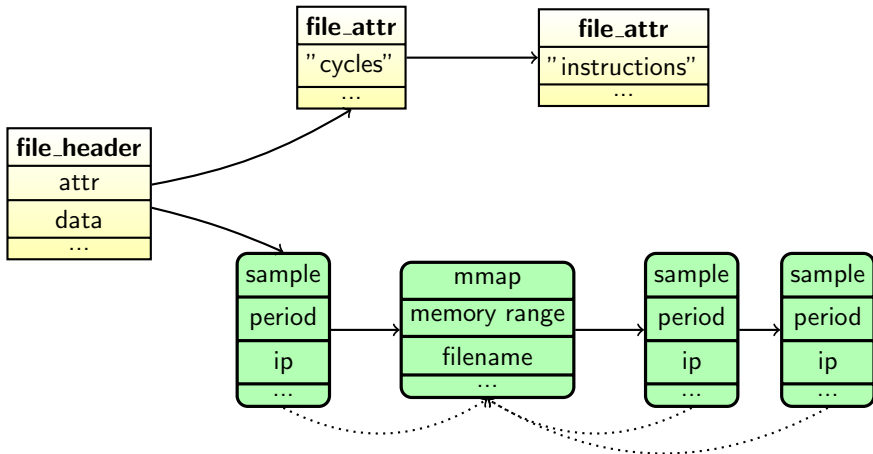
# perf file format



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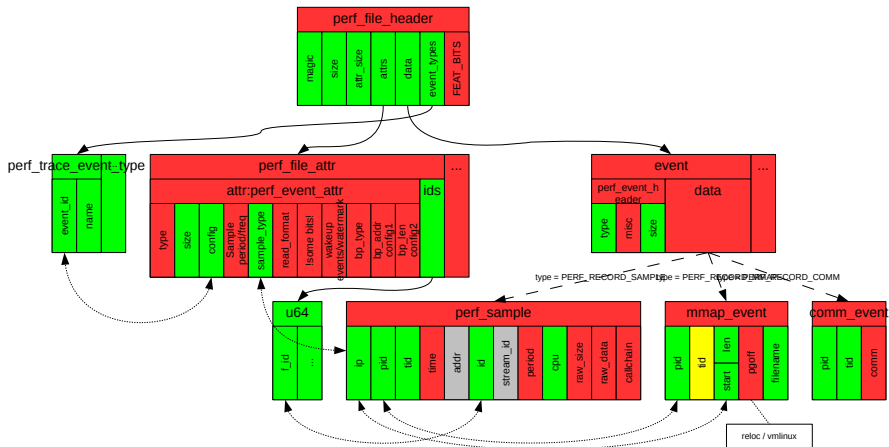


# perf file format





# detailed file format



# map ip to function name

- ① sample contains Instruction Pointer
- ② find corresponding mmap event
  - mmap events contains binary name
- ③ addr2line shows source file and function name from IP and binary
- ④ aggregate all samples in the same function

- understand timestamp of sample
- mapping instruction pointer to library functions
- understand how the address  $\leftrightarrow$  filename works

- good understanding of file format
  - map samples to functions
  - same result as perf report
  - library and system function doesn't work entirely