# Open merge request

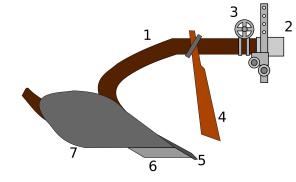
xFitter meeting, 20 Dec 2023

#### Parameter to control total number of threads



- Global parameter NCPUmax <u>https://gitlab.cern.ch/fitters/xfitter/-/merge\_requests/335</u>
- Useful for multiple modules using parallel computation (e.g. CERES and RT)
- Fork() requests are wrapped by xf\_fork(int NCPU) and xf\_ncpu(int NCPU)
  functions
  - xf\_ncpu(int NCPU) provides number of available CPUs based on request (NCPU) and NCPUmax
  - fx\_fork(NCPU) updates NCPUmax for the child process, after the fork().
- Now implemented for all instances of fork() ( CERES, Profiler, RT\_DISNC, ReactionAFB)

## **Ploughshare interface**



#### Interface to <u>ploughshare</u>:

- For reaction APPLgrid, triggered by PloughShare parameter
- Included into default installation script
- Would it be better to prefer using Ploughshare instated of xfitter-datafiles(?)

```
Terminfo = 'PloughShare=atlas-atlas-wpm-arxiv-1612.03016:
```

GridName=atlas-atlas-wpm-arxiv-1612.03016-xsec001.appl'

### Moving to lfs for xfitter-datafiles (?)

- Discussed in summer, merge request for ATLAS files makes xfitter-datafiles repository "lfs" by default
- Can be handled with extra commands
  - git lfs fetch
  - git lfs checkout
- However, observe very slow upload on non-CERN local nodes.
- General discussions on forums suggest to avoid Ifs whenever possible

However, maybe we can investigate opportunity to reactive script do download targetted files only, or move towards ploughshare (at least for applgrids)