

```

1 | #include "cppdefs.h"
2 | -----
3 | !BOP
4 | !
5 | ! ROUTINE: 00 biogeochemical driver --- the main program \label{sec:main}
6 | !
7 | ! INTERFACE:
8 |   program main
9 | !
10 | ! DESCRIPTION:
11 | ! TODO
12 | !
13 | ! USES:
14 |   use time
15 |   use fabm_0d
16 |   use fabm, only: fabm_initialize_library
17 |   use fabm_types, only: type_version, first_module_version
18 |   use fabm_version
19 | !
20 |   IMPLICIT NONE
21 | !
22 | ! REVISION HISTORY:
23 | !   Original author(s): Jorn Bruggeman
24 | !
25 | !EOP
26 | !
27 | ! LOCAL VARIABLES:
28 |   character(LEN=8)          :: datestr
29 |   real                    :: t1=-1, t2=-1
30 |   type (type_version), pointer :: version
31 | -----
32 | !BOC
33 |   call CPU_Time(t1)
34 |   call Date_And_Time(datestr, timestr)
35 |   STDERR LINE
36 |   STDERR '00 FABM driver (using GOTM infrastructure)'
37 |   STDERR 'FABM version: ', git_commit_id, ' (' , git_branch_name, ' branch)'
38 |   call fabm_initialize_library()
39 |   version => first_module_version
40 |   do while (associated(version))
41 |     LEVEL0 trim(version%module_name)//' version: ', trim(version%version_string)
42 |     version => version%next
43 |   end do
44 |   STDERR 'Started on ', datestr, ' ', timestr
45 |   STDERR LINE
46 |
47 |   call init_run()
48 |   call time_loop()
49 |   call clean_up(ignore_errors=.false.)
50 |
51 |   call CPU_Time(t2)
52 |   call Date_And_Time(datestr, timestr)
53 |   STDERR LINE
54 |   STDERR 'Finished on ', datestr, ' ', timestr
55 |   STDERR 'CPU-time was in loop: ', t2-t1, ' seconds'
56 |   STDERR 'Sim-time/CPU-time: ', simtime/(t2-t1)
57 |   STDERR LINE
58 |
59 |   end
60 | !EOC
61 |
62 | ! -----
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64 | ! -----

```