

multi_write.f90

```
!  
! Description: how to create a multi field message in memory and write  
!             it to a file. The multi field messages can be created  
!             only in GRIB edition 2.  
!  
!  
!  
program multi_write  
  use grib_api  
  implicit none  
  integer          :: infile,outfile  
  integer          :: in_gribid,iret  
  integer          :: multi_gribid  
  integer          :: step,startsection  
  
  ! multi field messages can be created only in edition 2  
  call grib_open_file(infile,'../..../data/sample.grib2','r')  
  
  call grib_open_file(outfile,'multi_created.grib2','w')  
  
  ! a grib message is loaded from file  
  ! in_gribid is the grib id to be used in subsequent calls  
  call grib_new_from_file(infile,in_gribid)  
  
  startsection=4  
  do step=0,240,12  
  
    call grib_set(in_gribid,"step",step)  
    call grib_multi_append(in_gribid,startsection,multi_gribid)  
  
  enddo  
  
  ! write messages to a file  
  call grib_multi_write(multi_gribid,outfile)  
  
  call grib_release(in_gribid)  
  call grib_release(multi_gribid)  
  
  call grib_close_file(infile)  
  call grib_close_file(outfile)  
  
end program multi_write
```