

# ecCodes GRIB

Quiz (optional)

Shahram Najm

Development Section

Forecast Department

# Quiz

- **Q1: You have a number of grib files and you want to know the total number of messages in them. How would you do this?**
- **Q2: You have a grib file with several messages but you do not want the 5th one. How would you delete this unwanted message?**
- **Q3: You have a number of input files containing a mixture of grib1 and grib2 messages. You want to collect just the grib2 messages into a new file. How would you do this?**
- **Q4: For a given grib message, how would you show all the aliases for a given key?**
- **Q5: How would you set all the data values to the number “-35” (thereby creating a constant field)?**

# Quiz: Answers

**Q1:** You have a number of grib files and you want to know the total number of messages in them. How would you do this?

```
grib_count file1 file2 file3 ...
```

`grib_count` counts the messages in each grib file and outputs the sum. Remember there is also the “-v” option to see the number of messages in each file

## Quiz: Answers

**Q2:** You have a grib file with several messages but you do not want the 5th one. How would you delete this unwanted message?

```
grib_copy -w "count!=5" orig.grib temp  
mv temp orig.grib
```

You can also do this with `grib_filter` of course.

## Quiz: Answers

**Q3:** You have a number of input files containing a mixture of grib1 and grib2 messages. You want to collect just the grib2 messages into a new file. How would you do this?

```
grib_copy -w edition=2 file1 file2 out.grib2
```

Or use grib\_filter:

```
if (edition == 2) {  
    print "Taking message from [file]...";  
    append "out.grib2";  
}
```

# Quiz: Answers

**Q4:** For a given grib message, how would you show all the aliases for a given key?

```
grib_dump -Oa my.grib
```

Example:

```
55      resolutionAndComponentFlags = 48 [00110000]  
56-59   latitudeOfLastGridPoint = 0 [La2]  
60-63   longitudeOfLastGridPoint = 30000000 [Lo2]  
64-67   iDirectionIncrement = 2000000 [Di, Dx]  
68-71   jDirectionIncrement = 2000000 [Dj, Dy]  
72      scanningMode = 0 [00000000]  
...
```

# Quiz: Answers

**Q5:** How would you set all the data values to the number “-35” (thereby creating a constant field)?

```
grib_set -d -35 input output
```



**KEEP  
CALM  
YOU PASSED  
THE  
FINAL EXAM**

