

For GRIB edition 1, why does the centre change when I set stepType - ecCodes GRIB FAQ

This happens for stepType of "max" and "min". Unfortunately edition 1 does not support maximum and minimum in its "Time Range Indicator" table ([Table 5](#)). So ECMWF *invented* its own centre-specific combination to support this. There is no such issue in GRIB edition 2.

To see this let's try setting the stepType key on a GRIB file whose centre is not ECMWF:

```
% grib_ls -p centre,edition my.grib1
centre      edition
consensus   1

# Set its stepType to max
% ECCODES_DEBUG=-1 grib_set -s stepType=max my.grib1 max.grib1
ECCODES DEBUG grib_set_string stepType=|max|
ECCODES DEBUG grib_set_long timeRangeIndicator=2
ECCODES DEBUG grib_set_long centre=98

% grib_ls -p centre,stepType max.grib1
centre      stepType
ecmf        max
```

Here we turn on the debugging to see what other keys get set when we change the step type. We can see that the centre got changed to "98" (=ecmf). If we had used a different step type (e.g., "accum") this would not have happened.

Related articles

- [Keys and their types - ecCodes GRIB FAQ](#)
- [How to install ecCodes with Python bindings in conda - ecCodes FAQ](#)
- [Python3: codes_write error: 'argument must be str, not bytes' - ecCodes FAQ](#)
- [grib_to_netcdf: skips Control Forecast when I convert Ensemble Forecast data - ecCodes GRIB FAQ](#)
- [grib_to_netcdf: Why do I get the error "Wrong number of fields... Try using the -T option" - ecCodes GRIB FAQ](#)