

bufr_ls

DESCRIPTION

List content of BUFR files printing values of some header keys. Only scalar keys can be printed. It does not fail when a key is not found.

USAGE

bufr_ls [options] bufr_file bufr_file ...

OPTIONS

-p key[:{s|d|i}],key[:{s|d|i}],...

Declaration of keys to print. For each key a string (key:s), a double (key:d) or an integer (key:i) type can be requested. Default type is string.

-F format

C style format for floating-point values.

-P key[:{s|d|i}],key[:{s|d|i}],...

As -p adding the declared keys to the default list.

-w key[:{s|d|i}]{!=}value,key[:{s|d|i}]{!=}value,...

Where clause. Messages are processed only if they match all the key/value constraints. A valid constraint is of type key=value or key!=value. For each key a string (key:s), a double (key:d) or an integer (key:i) type can be specified. Default type is string. In the value you can also use the forward-slash character '/' to specify an OR condition (i.e. a logical disjunction) Note: only one -w clause is allowed.

-s key[:{s|d|i}]=value,key[:{s|d|i}]=value,...

Key/values to set. For each key a string (key:s), a double (key:d) or an integer (key:i) type can be defined. By default the native type is set.

-n namespace

All the keys belonging to namespace are printed.

-m

Mars keys are printed.

-V

Version.

-W width

Minimum width of each column in output. Default is 10.

-g

Copy GTS header.

-7

Does not fail when the message has wrong length

bufr_ls examples

1. Without options a **default list of keys** is printed. The default list can be different depending on the type of BUFR message.

```
> bufr_ls ../data/bufr/syno_multi.bufr
```

The result is:

```
../data/bufr/syno_multi.bufr
centre                masterTablesVersionNumber  localTablesVersionNumber
typicalDate           typicalTime                 rdbType
rdbSubtype            rdbtimeDate                rdbtimeTime
numberOfSubsets       localLatitude              localLongitude
ecmf                  13                         1
20090124              120000                    1
1                    20090124                  121435
1                    70.93                     -8.67
ecmf                  13                         1
20090124              120000                    1
1                    20090124                  121435
1                    77                        15.5
ecmf                  13                         1
20090124              120000                    1
1                    20090124                  121435
1                    78.92                     11.93
3 of 3 messages in ../data/bufr/syno_multi.bufr

3 of 3 total messages in 1 files
```

2. It is allowed to use **wildcards** in filenames.

```
> bufr_ls ../data/bufr/syno_*.bufr
```

3. To list only a specific set of keys use the **-p** option.

```
> bufr_ls -p totalLength,bufrHeaderCentre,bufrHeaderSubCentre ../data/bufr/syno_multi.bufr
```

4. To list only a subset of messages use the **-w** (where option). Only the 12 UTC messages are listed with the following line.

```
> bufr_ls -w typicalTime="120000" ../data/bufr/syno_*.bufr
```

5. All the non-12 UTC messages are listed as follows:

```
> bufr_ls -w typicalTime!="120000" ../data/bufr/syno_*.bufr
```

6. To list only the second message from a BUFR file:

```
> bufr_ls -w count=2 ../data/bufr/syno_multi.bufr
```