NAME

mbstripNaN − filter to remove NaN nodes

VERSION

Version 5.0

SYNOPSIS

mbstripNaN

DESCRIPTION

mbstripNaN is a utility for removing NaN nodes that are produced by the GMT utilities **grd2xyz** and **blockmean** with the −bo option. The standard output of **mbstripNaN** may be fed into the standard input of **surface** with the −bi option. This is used by the **mbm_grd2geovrml** utility in order to spline fill areas of no data so that irregular bathymetry may be effectively visualized using GeoVRML which has no concept of NaN.

Note that **mbstripNaN** works with a double precision data stream.

The code is simple. Here it is:

```
#include <stdio.h>
#include <math.h>

/*
 * Read double x,y,z on stdin and send to stdout all
 * triplets but ones where z == NaN
 */
main () {
        struct node { double lon, lat, height; };
        struct node n;
        while ( ( fread(&n, 24, 1, stdin) > 0 ) ) {
                if ( ! isnan(n.height) ) {
                        fwrite(&n, 24, 1, stdout);
                }
        }
 }
```

EXAMPLE

This is a command that **mbm_grd2geovrml** constructs and executes:

```
#
# Convert grid to xyz format for filling in blank
# areas, preprocess w/blockmean, use surface to
# extrapolate to no data areas
#
grd2xyz −bo Samp_OregonMarginI_bath.grd | blockmean \
  −bi −bo −V −I0.00336363636363635/0.00134545454545457 \
  −R-125.2/-124.867/45/45.1332 | mbstripNaN | surface \
  −bi −I0.00336363636363635/0.00134545454545457 \
  −S0.333312 −T0.35 −GTmp_OregonMarginI_bath.grd −V \
  −R-125.2/-124.867/45/45.1332
```

SEE ALSO

grd2xyz(1), **blockmean**(1), **surface**(1), **mbm_grd2geovrml**(1)

BUGS

How many bugs can there be in an 8 line program?