

```

1 | ! This file is include in all .F90 files and contains very important
2 | ! definitions. Infact GOTM will not compile when this file is not
3 | ! in a correct format.
4 | ! KBK 20000220
5 |
6 | #define PATH_MAX      255
7 |
8 | #define stderr        0
9 | #define stdout        6
10 |
11 | ! Handy for writing
12 | #define STDOUT write(stdout,*)
13 | #define STDERR write(stderr,*)
14 | #define LEVEL0 STDERR
15 | #define LEVEL1 STDERR ' ',
16 | #define LEVEL2 STDERR ' ', ' ',
17 | #define LEVEL3 STDERR ' ', ' ', ' ',
18 | #define LEVEL4 STDERR ' ', ' ', ' ', ' ',
19 | #define FATAL STDERR 'FATAL ERROR: ',
20 |
21 | #define LINE "-----"
22 |
23 | ! Shapes for variables
24 | #define POINT          0
25 | #define Z_SHAPE        1
26 | #define T_SHAPE        2
27 | #define XY_SHAPE       3
28 | #define XYT_SHAPE      4
29 | #define XYZT_SHAPE     5
30 |
31 | #define RAWBINARY      0
32 | #define ASCII          1
33 | #define NETCDF          2
34 | #define GRADS          3
35 | #define OPENDX         4
36 |
37 | ! For easier reading
38 | #define READING 0
39 | #define WRITING 1
40 |
41 | ! To avoid dividing by zero
42 | #define SMALL 1e-8
43 |
44 | ! What precision will we use in this compilation
45 | #define SINGLE
46 | #undef SINGLE
47 |
48 | #ifdef SINGLE
49 | #define REALTYPE real(kind=selected_real_kind(6))
50 | #define MPI_REALTYPE MPI_REAL
51 | #define _ZERO_ 0.0
52 | #define _HALF_ 0.5
53 | #define _ONE_ 1.0
54 | #else
55 | #define REALTYPE real(kind=selected_real_kind(13))
56 | #define MPI_REALTYPE MPI_DOUBLE_PRECISION
57 | #define _ZERO_ 0.0d0
58 | #define _HALF_ 0.5d0
59 | #define _ONE_ 1.0d0
60 | #endif
61 |
62 | ! Definition to write NetCDF output reals as single or double precision:
63 | #ifdef _NCDF_SAVE_DOUBLE_
64 | #define NCDF_FLOAT_PRECISION NF90_DOUBLE
65 | #define NCDF_REAL real(kind=selected_real_kind(13))
66 | #else
67 | #define NCDF_FLOAT_PRECISION NF90_REAL
68 | #define NCDF_REAL real(kind=selected_real_kind(6))
69 | #endif
70 |
71 | ! non-local fluxes
72 | #undef NONLOCAL
73 |
74 | ! KPP turbulence model
75 | #define KPP_SHEAR
76 | #define KPP_INTERNAL_WAVE
77 | #define KPP_CONVEC
78 | #undef KPP_DDMIX
79 | #undef KPP_TWOPOINT_REF
80 | #define KPP_IP_FC
81 | #undef KPP_CLIP_GS
82 | #define KPP_SALINITY
83 |

```