```
_{8}ccsrc/Kolmogorov 41.ccFileReference
        #include
"h5si.-
h"
  h#~~
#include
         <yaml-cpp/yaml.-</pre>
h>
#include
<iostream>
#include
<fstream>
#include
<hdf5.-
 h>
#include
<omp.-
 h>
#include
<mpi.-
    h>
#include
<sys/time.-
    h>
#include
<limits.
  h>
#include
<unistd.-
     _8cc_a 2b9e63f5c7d28def453cfba49b74859aReadpara () Function to open they am lfile and parse the parameters. \\
       scc_a 16 a ede 7 be 50 f 9 f 4215 d 24 de 0 dad 9179 bwrite 2D (Array double, 2A, string file) Function to write the structure functions and the first of the f
       Dhdf5file.
       _8cc_a 6e486782767b522541885ab5c5a7e32ewrite3D (Array double, 3A, stringfile, intq) Function to write the structure function of the structure of the structur
        Dh\bar{d}f5file.
               cc_a952e4e10ef79a9b18af65437730f1080write4D (Arraydouble, 4A, stringfile, intq) Function to write the structure function of the following formula of the following formul
       Dhdf5file
       8cc_a e 3 a e 6 d 31 f 602 c a f 58200506 a e 0 d 963 a 0 read 2D (Array double, 2A, string file) Function to read a 2-d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e 2 d a e
       Dfield from anh df 5 file.
     _8cc_a22 \\ \^{e}edad 9725 \\ \~{b}\\ 1ecf 9cb 6ccbaf 6892 \\ 2bint to str(int Kolmogorov 41_8cc_a \\ 86cf 672 \\ daa \\ 4e0ad \\ 11ad \\ 10efc894d \\ 19c8 \\ num) Functor \\ 2ecc_a \\ 1ecc_a \\ 1e
     _8cc_ab0e9217b9dd150e770e3423b9a670447computetimeelapsed (timeval start)
     t, timeval end
     t, double \& elapsed) Function to compute the time elapsed.
     _8cc_a4ed42719c00a36bb33994eace7a5fcc1powInt(doublex,intn)Functionwhich conducts exponentiation with an integer as a superscript of the property of the prop
       _8cc_ad4f02dee0a6ff4dd152134cfd2f5ccacread3\dot{D}(Arraydouble,3A,stringfile)Function to reada3-
       Dfield from anh df 5 file.
       _8cc_aaeaf80f44d91adffa51dca33da5a8b1bSFunc2D(Arraydouble, 2Ux, Arraydouble, 2Uz, Arraydouble, 2\&Saccaaeaf80f44d91adffa51dca33da5a8b1bSFunc2D(Arraydouble, 2Ux, Arraydouble, 2Uz, Arraydouble, 2Ux, Arraydouble,
         Node, Array double, 2\&S
    F \\ Node \\ p, Array double, 2 \& counter
       Node) Function to calculate structure functions using 2-
       Dvelocity field.
       Node, Array double, 2\&S
       Node, Array double, 2 \& counter
       Node, Arraydouble, 3&S
       E^{rid2}
    pll
         Node, Array double, 3 \& S
  F
Grid2
Perp
Perp
        Node, Array double, 3 \& counter
       Gri\widetilde{d2}
       Node) Function to calculate structure functions using 2-
       Dvelocity field as function of (lx, lz) in addition to the structure functions as function of (l).
       _8cc_ac0484229466aa1bb410a8432aebb0f3fSFunclong2D(Arraydouble, 2Ux, Arraydouble, 2Uz, Arraydouble, 2\&S
       Node, Array double, 2 \& counter
       Node) A less computationally intensive function to calculate only the longitudinal structure functions using 2-time and the properties of the properties o
       Dvelocity field.
       _8cc_a a 690ba 615c 6dd 5cb 4e4cb 8968a 2f91bb SFunclong 2D (Array double, 2Ux, Array double, 2Uz, Array double, 2\&Superior 2Ux, Array double, 2
       Node, Array double, 2\& counter
       Node, Arraydouble, 3\&S
       Grid2
    pll
       Node, Arraydouble, 3\&counter
     D^{rid2}
```

Node) Aless computational luintensive function to calculate on luthelonaitudinal structure functions as functions of (lx,lz)