

1 Modification of TALYS file 'talysinput.f'

During execution, TALYS calls the subroutine 'talysinput' which in turn calls several other subroutines. Some of these subroutines initialize data and others read and stores input data given by the user in the TALYS input file. In order to interfere as little as possible with the normal functions of TALYS, the subroutine for reading the value of the specially created keyword 'geffissionfileid', was placed in a separate file named 'input7.f'. The modifications to this file adds a call to the new subroutine and forces TALYS to read and store the unique file ID given by the user. The modifications made are highlighted in yellow.

```
      subroutine talysinput
c
c +-----+
c Author:  Arjan Koningc Date : January 29, 2023
c Task :   User input and defaults
c Edited:  Peter Karlsson; Date: May 7 2023
c +-----+
c
c ***** Editing information *****
c Added "call input7" to read unique GEF FY file when multithreding
c *****
c
c ***** Set defaults and read input *****
c
c readinput : subroutine to read input
c input1 : subroutine to read input for first set of variables
c input2 : subroutine to read input for second set of variables
c input3 : subroutine to read input for third set of variables
c input4 : subroutine to read input for fourth set of variables
c input5 : subroutine to read input for fifth set of variables
c input6 : subroutine to read input for sixth set of variables
c input7 : subroutine to read name for unique GEF FY file
c checkkeyword: subroutine to check for errors in keywords
c checkvalue : subroutine to check for errors in values
c
c      call readinput
c      call input1
c      call input2
c      call input3
c      call input4
c      call input5
c      call input6
c      call input7
c      call checkkeyword
c      call checkvalue
c      return
c      end
```

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