**F90SPLIT   
Split FORTRAN90 Source Files**

**F90SPLIT** is a FORTRAN90 program which reads a (simple) FORTRAN90 source code, and writes each routine to a separate file with an extension of ".f90".

Here, by "routine", we mean a chunk of text that begins with a **BLOCKDATA**, **FUNCTION**, **MODULE**, **PROGRAM** or **SUBROUTINE** unit and ends with an **END**statement.

This utility can be convenient when your goal is to create a UNIX "AR" archive of the compiled object code. By splitting your source code up, and compiling each routine separately, you end up with a library in which each compiled module is individual listed and replaceable.

**Usage:**

**f90split** *myprog.f90*

where

* *myprog.f90* is the file to be split.

Instead of the name of a single file, a pattern can be given, as in:

**f90split** *sub\*.f90*

in which case each file whose name matches the pattern will be handled by the program.

**Licensing:**

The computer code and data files described and made available on this web page are distributed under [the GNU LGPL license.](https://people.sc.fsu.edu/~jburkardt/txt/gnu_lgpl.txt)

**Languages:**

**F90SPLIT** is available in [a C version](https://people.sc.fsu.edu/~jburkardt/c_src/f90split/f90split.html) and [a FORTRAN90 version](https://people.sc.fsu.edu/~jburkardt/f_src/f90split/f90split.html).

**Related Data and Programs:**

[CATALOG](https://people.sc.fsu.edu/~jburkardt/cpp_src/catalog/catalog.html), a C++ program which reads a C, C++, FORTRAN77 or FORTRAN90 program and prints every line that begins with a special index tag. If the program has been marked up expecting this convention, it is a handy way of making a table of contents of a program file.

[EXTRACT](https://people.sc.fsu.edu/~jburkardt/f_src/extract/extract.html), a FORTRAN90 program which extracts a subroutine, function or module by name from a FORTRAN file.

[F77SPLIT](https://people.sc.fsu.edu/~jburkardt/c_src/f77split/f77split.html), a C program which can split a FORTRAN77 file.

[FIXCON](https://people.sc.fsu.edu/~jburkardt/f_src/fixcon/fixcon.html), a FORTRAN90 program which reads a FORTRAN file using FORTRAN77 continuation statements, and makes a copy that uses FORTRAN90 continuation instead.

[HTMLINDEX](https://people.sc.fsu.edu/~jburkardt/cpp_src/htmlindex/htmlindex.html), a C++ program which reads a FORTRAN program and writes a skeleton HTML page describing it, assuming that each subroutine includes a '!!' or 'cc' description line.

[INCLUDE\_FILES](https://people.sc.fsu.edu/~jburkardt/f_src/include_files/include_files.html), a FORTRAN90 program which reads a FORTRAN program with INCLUDE statements, and makes a copy with the indicated files included.

[MODULE\_MARK](https://people.sc.fsu.edu/~jburkardt/f_src/module_mark/module_mark.html), a FORTRAN90 program which replaces bare "END" statements by "END (module name)" statements in a FORTRAN90 file.

**Source Code:**

* [f90split.f90](https://people.sc.fsu.edu/~jburkardt/f_src/f90split/f90split.f90), the source code;

**Examples and Tests:**

* [f90split\_prb.f90](https://people.sc.fsu.edu/~jburkardt/f_src/f90split/f90split_prb.f90), a sample file to split up;
* [f90split\_prb\_output.txt](https://people.sc.fsu.edu/~jburkardt/f_src/f90split/f90split_prb_output.txt), the printed output from a run of the program.

**List of Routines:**

* **MAIN** is the main program for F90SPLIT.
* **HANDLE** handles one file.
* **CH\_CAP** capitalizes a single character.
* **CH\_LOW** lowercases a single character.
* **DIGIT\_TO\_CH** returns the character representation of a decimal digit.
* **F90\_LINE\_IS\_BEGIN** determines if a line begins a FORTRAN90 routine.
* **F90\_LINE\_IS\_END** determines if a line ends a FORTRAN90 module.
* **FILE\_EXT** determines the "extension" of a file name.
* **GET\_UNIT** returns a free FORTRAN unit number.
* **S\_BEFORE\_SS\_COPY** copies a string up to a given substring.
* **S\_BLANK\_DELETE** removes blanks from a string, left justifying the remainder.
* **S\_BLANKS\_DELETE** replaces consecutive blanks by one blank.
* **S\_CAP** replaces any lowercase letters by uppercase ones in a string.
* **S\_CAT** concatenates two strings to make a third string.
* **S\_EQI** is a case insensitive comparison of two strings for equality.
* **S\_INDEX\_LAST** finds the LAST occurrence of a given substring.
* **S\_INDEXI** is a case-insensitive INDEX function.
* **S\_LOW** replaces all uppercase letters by lowercase ones.
* **S\_SPLIT** divides a string into three parts, given the middle.
* **TIMESTAMP** prints the current YMDHMS date as a time stamp.
* **WORD\_NEXT\_READ** "reads" words from a string, one at a time.

You can go up one level to [the FORTRAN90 source codes](https://people.sc.fsu.edu/~jburkardt/f_src/f_src.html).

*Last revised on 23 August 2011.*

**F90SPLIT   
拆分FORTRAN90源文件**

**F90SPLIT** 是一个FORTRAN90程序，它读取（简单）FORTRAN90源代码，并将每个例程写入一个扩展名为“.f90”的单独文件。

这里，“例程”是指一个以**BLOCKDATA**，**FUNCTION**，**MODULE**， **PROGRAM**或**SUBROUTINE**单位开头并以**END** 语句结束的文本块。

当您的目标是创建编译对象代码的UNIX“AR”存档时，此实用程序可以很方便。通过拆分源代码并分别编译每个例程，最终得到一个库，其中每个编译的模块都是单独列出和可替换的。

**用法：**

**f90split***myprog.f90*

哪里

* *myprog.f90*是要拆分的文件。

可以给出一个模式，而不是单个文件的名称，如：

**f90split***sub \* .f90*

在这种情况下，每个名称与模式匹配的文件将由程序处理。

**许可：**

在此网页上描述和提供的计算机代码和数据文件是在[GNU LGPL许可](https://people.sc.fsu.edu/~jburkardt/txt/gnu_lgpl.txt)下分发 [的。](https://people.sc.fsu.edu/~jburkardt/txt/gnu_lgpl.txt)

**语言：**

**F90SPLIT**是提供 [一个C版本](https://people.sc.fsu.edu/~jburkardt/c_src/f90split/f90split.html)和 [一个FORTRAN90版本](https://people.sc.fsu.edu/~jburkardt/f_src/f90split/f90split.html)。

**相关数据和程序：**

[CATALOG](https://people.sc.fsu.edu/~jburkardt/cpp_src/catalog/catalog.html)，一个C ++程序，它读取C，C ++，FORTRAN77或FORTRAN90程序并打印以特殊索引标记开头的每一行。如果程序已被标记为期望此约定，则它是制作程序文件的目录的便利方式。

[EXTRACT](https://people.sc.fsu.edu/~jburkardt/f_src/extract/extract.html)，一个FORTRAN90程序，它从FORTRAN文件中按名称提取子程序，函数或模块。

[F77SPLIT](https://people.sc.fsu.edu/~jburkardt/c_src/f77split/f77split.html), a C program which can split a FORTRAN77 file.

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