**F77\_TO\_F90** is a FORTRAN90 program which can convert FORTRAN77 codes to FORTRAN90 format.

### Usage:

**f77\_to\_f90** *input.f* *output.f90*

where

* *input.f* is the input FORTRAN77 file;
* *output.f90* is the output file, which has been converted.

### Languages:

**F77\_TO\_F90** is available in [a FORTRAN90 version](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/f77_to_f90.html).

### Related Programs and Data:

[F90\_TO\_F77](https://people.sc.fsu.edu/~jburkardt/f_src/f90_to_f77/f90_to_f77.html), a FORTRAN90 program which assists in the conversion of a FORTRAN90 file to FORTRAN77 format.

[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.

### Author:

Michael Metcalfe

### Source Code:

* [f77\_to\_f90.f90](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/f77_to_f90.f90), the source code.

### Examples and Tests:

* [prog.f](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/prog.f), a sample FORTRAN77 source code.
* [prog.f90](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/prog.f90), the converted FORTRAN90 version.

### List of Routines:

* **MAIN** is the main program.
* **STRUCTURE** is a module defining the maximum DO nesting and statement length.
* **DATA** is a module.
* **STATISTICS** is a module.
* **ALL\_PROCEDURES** is a module containing all the procedures.
* **ARGUMENT** stores the names of a routine and its arguments.
* **BLANK** reformats the statement so a single blank separates most tokens.
* **IDENTIFY** identifies statements belonging to DO's, IF's or FORMAT's.
* **KEYWORD** cleans up a keyword that has been read.
* **NAMEOF** picks out the name of a procedure.
* **PROGRAM\_UNITS** is the principal subroutine.
* **REFORM** reformats and outputs accepted statements.
* **SPECIAL** applies special treatment for peculiar Fortran syntax.
* **START** prepares for PROGRAM\_UNITS.
* **TERMINATE** prints the final summary.

**F77\_TO\_F90   
将FORTRAN77转换为FORTRAN90**

**F77\_TO\_F90** 是FORTRAN90程序，可以将FORTRAN77代码转换为FORTRAN90格式。

**用法：**

**f77\_to\_f90***input.f output.f90*

哪里

* *input.f*是输入FORTRAN77文件;
* *output.f90*是已转换的输出文件。

**语言：**

**F77\_TO\_F90**在可用 [一个FORTRAN90版本](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/f77_to_f90.html)。

**相关程序和数据：**

[F90\_TO\_F77](https://people.sc.fsu.edu/~jburkardt/f_src/f90_to_f77/f90_to_f77.html)，FORTRAN90程序，协助将FORTRAN90文件转换为FORTRAN77格式。

[FIXCON](https://people.sc.fsu.edu/~jburkardt/f_src/fixcon/fixcon.html)，FORTRAN90程序，使用FORTRAN77连续语句读取FORTRAN文件，并生成使用FORTRAN90延续的副本。

**作者：**

迈克尔梅特卡夫

**源代码：**

* [f77\_to\_f90.f90](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/f77_to_f90.f90)，源代码。

**示例和测试：**

* [prog.f](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/prog.f)，FORTRAN77示例源代码。
* [prog.f90](https://people.sc.fsu.edu/~jburkardt/f_src/f77_to_f90/prog.f90)，转换后的FORTRAN90版本。

**例程列表：**

* **MAIN**是主要计划。
* **STRUCTURE**是一个定义最大DO嵌套和语句长度的模块。
* **DATA**是一个模块。
* **ç计**是一个模块。
* **ALL\_PROCEDURES**是一个包含所有过程的模块。
* **ARGUMENT**存储例程的名称及其参数。
* **BLANK**重新格式化语句，因此一个空格分隔大多数令牌。
* **IDENTIFY**标识属于DO，IF或FORMAT的语句。
* **KEYWORD**清除已读取的关键字。
* **NAMEOF**选择一个程序的名称。
* **PROGRAM\_UNITS**是主要的子程序。
* **改革**重新格式化并输出已接受的陈述。
* **SPECIAL**对特殊的Fortran语法应用特殊处理。
* **START**准备PROGRAM\_UNITS。
* **TERMINATE**打印最终摘要。