

Fortran Quick Reference/Cheat Sheet

Remember: FORTRAN 77 and before is case sensitive. Fortran 90 and above is NOT case sensitive.

Introduction

Important things to note are:

- Fortran can perform array arithmetic operations.
- Spaces are ignored!
- Fortran is a compiled language which is compiled into an executable.
- Blue text indicates a feature which is available from Fortran 90 onwards.
- Purple text indicates a feature which is available from Fortran 95 onwards.
- Red text indicates a feature which is available from Fortran 2003 onwards.

Terminology

Statement - An instruction which is either executable or non-executable.

Construct - A sequence of statements ending with a construct terminal statement.

Function - A procedure that returns the value of a single value.

Procedure - Either a function or subroutine. Intrinsic procedures, external procedures, module procedures, internal procedures, dummy procedure or statement function.

Subroutine - A procedure that is invoked by a CALL statement or default assignment statement. It can return more than one argument.

Special Characters

- * (Asterisk) Editing, declaring a string
- @ (At) Declaring a string
- ! (Exclamation) Comment lines.
- ~ (Tilde) Separator.
- ~ (Exclamation) Inline comment.
- ~ (Exclamation) Separator (statement on single source line. Except where it is in a character constant, a comment or in line % arithmetic operator.
- ~ (Exclamation) Line continuation character (Must be on line 7 of fixed format F77. For F90 can be anywhere after the line.

Data types

Type Declaration	Characteristics
INTEGER	INT(*), INT(*) DEFAULT(1), INT(*)
REAL	REAL(*), REAL(*) DEFAULT(1), REAL(*)
COMPLEX	COMPLEX(*), COMPLEX(*) DEFAULT(1), COMPLEX(*)

Type Declaration Statements

- NON OVERRIDABLE**
Declares a named procedure cannot be overridden in a subunit of this class.
`PROCEDURE, NON OVERRIDABLE :: p`
- ALLOCATABLE**
Declares an array is allocatable.
`REAL, ALLOCATABLE, DIMENSION(1:10) :: a`
- DIMENSION**
Declares the rank and end shape of an array.
`REAL, DIMENSION(1:7, 1:10, 1:10) :: matrix`
- EXTERNAL**
Declares that a name is a function external to a program unit.
`REAL, EXTERNAL :: f(x)`
- INTENT**
Specifies the intended use of a dummy argument.
`REAL, INTENT(IN) :: x`
- INTRINSIC**
Declares that a name is a specific intrinsic function.
`INTRINSIC :: SIN`

Concepts and Elements

Category	Statements
Module	Module Contains Procedure Public End Module Use
Subroutine	Module Module Procedure End Interface
Derived data type	Derived type Private Sequence End Type
Subprogram	Function Subroutine Entry Contains Returns
Input/Output	Read Write Close Flush Open Close Read Read Write

Flow Control

Group	Statements
IF	IF ELSE IF ELSE ENDIF
CALL	SELECTED CALL CALL END SELECT
DO, DO WHILE	DO DO WHILE END DO CYCLE
WRITE, WRITE(*,*)	WRITE WRITE(*,*) END WRITE

- PARAMETER**
Declares that the derived data type variable used to specify a named procedure will be passed to its as its first calling argument.
`PARAMETER, PARAM :: x`
- PRIVATE**
Declares that a variable in a position.
`PRIVATE, PRIVATE :: x`
- PROTECTED**
Declares that an object in a module is protected, meaning that it can be read but not modified outside the module in which it is defined.
`PROTECTED :: x`
- PUBLIC**
Declares that an object is private to a module.
`PUBLIC, PUBLIC :: x`
- SAVE**
Declares that an object is private to a module.
`SAVE, SAVE :: x`
- TARGET**
Declares that an object is private to a module.
`TARGET, TARGET :: x`
- VOLATILE**
Declares that a value of a variable might be changed at any time by some source external to the program.
`VOLATILE, VOLATILE :: x`

Derived Data Types

- Arrays can be up to seven dimensions.
- Fortran 90 allows the use of arithmetic array operations without the use of loops.
- Unsubscripted arrays are passed by reference. Unsubscripted arrays are passed by value?
- Arrays are stored in column major format. This is not the same as C which is stored in row major format.

Terminology

Order of Statements and Execution Sequence

PROGRAM, PROGRAM, SUBROUTINE, MODULE or BLOCK DATA statement		
END statements		
IMPLICIT NONE		
FORMAL and ENTRY Statements	PARAMETER, REAL, DATA Statements	IMPLICIT NONE
	COMMON, INCLUDE, INCLUDE, INCLUDE, TYPE, CHARACTER, FUNCTION, STATEMENT, FUNCTION Statements and Specification Statements	IMPLICIT NONE
	CALL Statements	IMPLICIT NONE
CONTAINS		
EXTERNAL, PROGRAM, SUBROUTINE, MODULE, BLOCK DATA Statements		

Statements Allowed in Scoping Units

Scoping Unit	Main Module?	Block	External Module	Internal Module	Interface
END	Yes	Yes	Yes	Yes	Yes
ENTRY	No	No	Yes	No	No
EXTERNAL	Yes	No	Yes	Yes	No
CALL	Yes	Yes	Yes	Yes	No
CONTAINS	Yes	Yes	No	Yes	No
Module	Yes	Yes	Yes	Yes	Yes
data type definitions					
External block	Yes	Yes	No	Yes	Yes
Module	Yes	No	Yes	Yes	No
Statement	Yes	No	Yes	Yes	No
Function	Yes	No	Yes	Yes	No
statement	Yes	Yes	Yes	Yes	Yes

- Notes:
1. Miscellaneous declarations are PARAMETER statements, IMPLICIT statements, type declaration statements, and specification statements such as PUBLIC, SAVE, etc.
 2. Derived type definitions are also scoping units, but they do not contain any of the above statements, and so have not been listed in the table.
 3. The scoping unit of a module does not include any module subprograms that the module contains.

`REAL, DIMENSION(2:9,5:5) :: arr_2 ** -1` - A rank two array with 12 elements in the first dimension starting at subscript -2. This is different from C where array subscripting always starts from zero.

Array Constructors

`matrix = (/1,2,3,4/)`
`matrix = (/ (34,56,1,89) /)` - using an implied do loop.
`array = (/ (34,56=1,89,N=1,3) /)`

Array Selection

- `arr(1,5)` Subscript for a single value
- `arr(1,:)` Column 1 of a two dimensional array.
- `arr(1:k,:j)` A 2D subarray of columns 1 to k, rows j to l.
- `arr(1:k=0)` A 1D array starting at subscript 1 and finishing at subscript k with a stride of m.
- `arr(1:arr2)` The elements of Array2 subscript the elements in Array1.

Functions for Determining Array Properties

- `ALL(mask, arr)` Determines if all values are true in mask along dimension dim.
- `ANY(mask, arr)` Determines if any value is true in mask along dimension dim.
- `ALLOCATED(arr)` Returns true if array is allocated.
- `COUNT(mask, arr)` Returns the number of true elements in mask along dimension Dim.
- `INDEX(arr)` Returns smallest element of entire array.
- `MINLOC(arr, arr)` Returns smallest element in dimension of array.
- `MAXLOC(arr)` Returns largest element of entire array.
- `MINVAL(arr, arr)` Returns largest element in dimension of array.
- `MAXVAL(arr, arr)` Returns the value located at the end

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