

This routine deals with various uses of the delimiter , .

- i) INOUT (1) is called to deal with a read or print list comma.
- ii) If we are in a procedure call (PROC = 1) the subroutine ACTOP is used to process the current ALGOL section.
- iii) If the for clause marker is set, the subroutine FORCOM is used to distinguish between the use of comma between for list elements in which case PRIM DO is compiled after a typecheck, or between subscript expressions of a variable used in a for list element. The latter case does not return from FORCOM.

The former case then stacks the simple for element again, sets the state variable ARITH to 1 and exits.

- iv) If DECTYP = 0 the current delimiter is being used between subscript expressions, and is processed by the subroutine ARRBND.

- v) Finally, the top of the stack is used to differentiate between various uses of a comma in an array declaration.

If the top of the stack is MAMPS, the comma is between array identifiers viz:

real array A,B,

and the identifier is entered in the Name List using DECL.

Otherwise the comma is being used between subscript expressions, and ARRBND processes the current ALGOL section.

ERRORS

FAIL 96; incorrect for clause (FORCOM)

FAIL 77; incorrect use of comma, or missing identifier in array declaration.