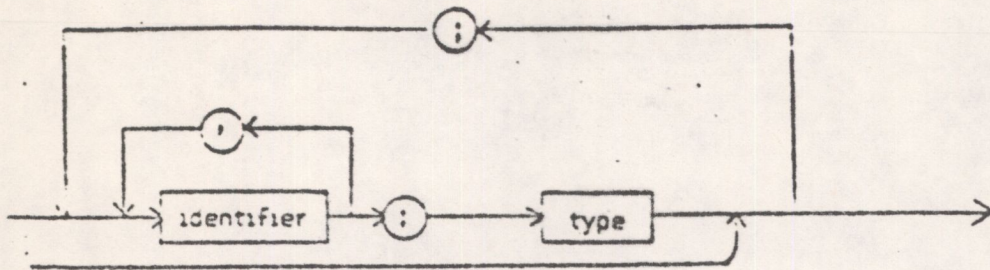
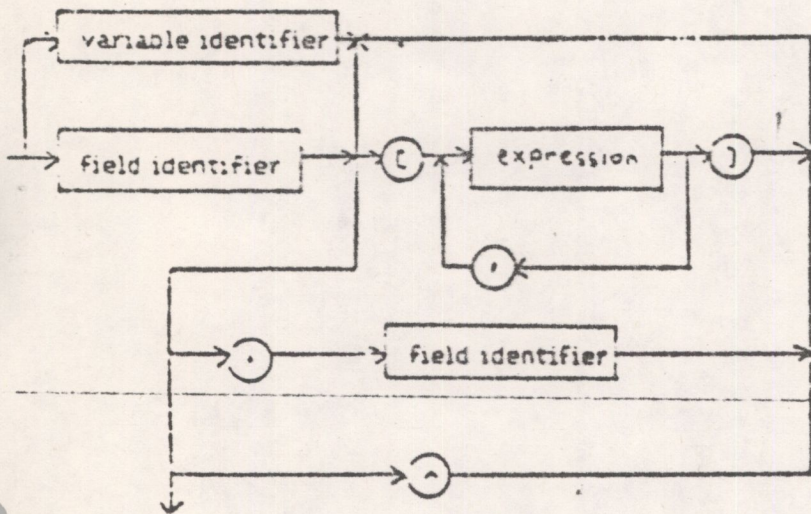


1.7 FIELD LIST.



Used in conjunction with RECORDs see Section 1.7.4 above and Appendix 4 for an example.

VARIABLE.



Two kinds of variables are supported within Hisoft Pascal 4; static and dynamic variables. Static variables are explicitly declared through VAR and memory is allocated for them during the entire execution of the block in which they were declared.

Dynamic variables, however, are created dynamically during program execution by the procedure NEW. They are not declared explicitly and cannot be referenced by an identifier. They are referenced indirectly, by a static variable of type pointer, which contains the address of the dynamic variable.

See Section 1.7.2 and Section 2 for more details of the use of dynamic variables and Appendix 4 for an example.

When specifying elements of multi-dimensional arrays the programmer is not forced to use the same form of index specification in the reference as was used in the declaration - this is a change from Hisoft Pascal 3.

e.g. if variable a is declared as `ARRAY[1..10] OF ARRAY[1..10] OF INTEGER` then either `a[[1][1]]` or `a[1,1]` may be used to access element (1,1) of the array.