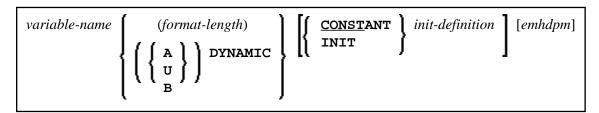
Variable Definition Variable Definition

Variable Definition

In the *variable-definition* option used with DEFINE DATA LOCAL, DEFINE DATA INDEPENDENT, DEFINE DATA CONTEXT and DEFINE DATA OBJECT, you may specify either a *scalar-definition* or an *array-definition*:

```
\left\{ \begin{array}{l} < scalar-definition > \\ < array-definition > \end{array} \right\}
```

<scalar-definition>



<array-definition>

$$\left\{ \left(\left\{ \begin{array}{c} \textbf{A} \\ \textbf{U} \\ \textbf{B} \end{array} \right\} / array\text{-}definition \right) \textbf{DYNAMIC} \right\} \left[\left\{ \begin{array}{c} \textbf{CONSTANT} \\ \textbf{INIT} \end{array} \right\} array\text{-}init\text{-}definition } \right] [emhdpm]$$

This chapter covers the following topics:

- Function
- Syntax Description

For an explanation of the symbols used in the syntax diagram, see Syntax Symbols.

Function

A *variable-definition* is used to define a single field/variable that may be single-valued (scalar) or multi-valued (array).

Syntax Description

variable-name	The name to be assigned to the variable. Rules for Natural variable names apply With DEFINE DATA INDEPENDENT, the variable name must begin with a plus character (+).	
	For information on naming conventions for user-defined variables, see <i>Naming Conventions for User-Defined Variables</i> in the <i>Using Natural</i> documentation.	

Variable Definition Syntax Description

format-length The format and length of the field. For information on format of user-defined variables, see Format and Length of User-Defined the Programming Guide. A, U or B Data type: alphanumeric (A), Unicode (U) or binary (B) for the programming Guide.	•	
	dynamic variables.	
array-definition With an array-definition, you define the lower and upper bou in an array-definition. See Array Dimension Definition.	With an <i>array-definition</i> , you define the lower and upper bounds of dimensions in an array-definition. See <i>Array Dimension Definition</i> .	
DYNAMIC A field may be defined as DYNAMIC. For more information of dynamic variables, see <i>Using Dynamic and Large Variables</i> .	1	
The variable/array is to be treated as a named constant. The cassigned will be used each time the variable/array is reference assigned cannot be modified during program execution.		
See also Defining Fields, User-Defined Constants, Defining in the Programming Guide.	Named Constants	
Note: For reasons of internal handling, it is not allowed to mix vari constant definitions within one group definition; that is, a greeither variables only or constants only. The CONSTANT clause with DEFINE DATA INDEPENDENT and DEFINE DATA CONST clause cannot be used with X-arrays.	oup may contain se must not be used	
INIT The variable/array is to be assigned an initial value. This value when this variable/array is referenced in a RESET INITIAL If no INIT specification is supplied, a field will be initialized initial value depending on its format (see table <i>Default Initial</i> . See also <i>Defining Fields</i> , <i>Initial Values</i> in the <i>Programming</i> .	L statement. d with a default l Values below).	
Note: With DEFINE DATA INDEPENDENT and DEFINE DATA INIT clause is evaluated in each executed programming object this clause (not only in the programming object that allocates is different to the way the INIT works for global variables. To cannot be used with X-arrays.	A CONTEXT, the ect that contains s the variable). This	
init-definition With the init-definition option, you define the initial/constant variable. See Initial-Value Definition.	values for a	
array-init-definition With an array-init-definition, you define the initial/constant See Initial/Constant Values for an Array.	values for an array.	
emhdpm With this option, additional parameters to be in effect for a findefined. See EM, HD, PM Parameters for Field/Variable.	eld/variable may be	

Default Initial Values

Syntax Description Variable Definition

Format	Default Initial Value
B, F, I, N, P	0
A, U	(blank)
L	FALSE
D	D' '
Т	T'00:00:00'
С	(AD=D)
Object Handle	NULL-HANDLE

Fields declared as DYNAMIC do not have any initial value because their field length is zero by default.