

## APPENDIX A : CREDIT SYNTAX DEFINITION

This appendix defines the various syntactic items used in the foregoing instruction, directive and declaration syntax definitions. The symbols used below are explained in Section 1.1.

$$\text{actual-parameter} ::= \left\{ \begin{array}{l} \text{data-item-identifier} \\ \text{literal constant} \\ \text{array-identifier} [\text{,index-identifier-1}] \\ [\text{,index-identifier-2}] \\ \text{format-list-identifier} \\ \text{formal parameter} \\ \text{key-table-identifier} \\ \text{data-set-identifier} \end{array} \right\}$$

$$\text{alphanumeric-character} ::= \left\{ \begin{array}{l} \text{letter} \\ \text{decimal-digit} \end{array} \right\}$$

array-identifier ::= identifier

$$\text{array-type} ::= \left\{ \begin{array}{l} \text{BCDI} \\ \text{BINI} \\ \text{STRGI} \end{array} \right\}$$

$$\text{bit} ::= \left\{ \begin{array}{l} 0 \\ 1 \end{array} \right\}$$

block-identifier ::= identifier

condition mask ::= 0|1|2|3|4|5|6|7

control-value ::= value |value expression

$$\text{data-item-identifier} ::= \left\{ \begin{array}{l} \text{identifier} \\ \text{array-identifier}(\text{index-identifier-1} \\ \quad [\text{,index-identifier-2}]) \\ \text{formal-parameter} \end{array} \right\}$$

$$\text{data-item-specification} ::= \left\{ \begin{array}{l} \text{length} [[\text{value-type}] [\text{'value'}]] \\ \text{length} [\text{'value'}] \\ \text{value-type} [\text{'value'}] \\ \text{'value'} \end{array} \right\}$$

$$\text{data-item-type} ::= \left\{ \begin{array}{l} \text{BCD} \\ \text{BIN} \\ \text{BOOL} \\ \text{STRG} \end{array} \right\}$$

data-set-identifier ::= identifier

decimal-digit ::= 0|1|2|3|4|5|6|7|8|9

decimal-integer ::= decimal-digit . . .

$$\text{decimal-number} ::= \left[ \left[ \begin{array}{l} + \\ - \end{array} \right] \right] \text{decimal-integer}$$

device-type ::= CR|DC|DI|DL|DN|DY|GP|III|IO|KA|KI|KN|LP|MT|SI|SO|TK|TJ|  
TR|TV|TW|

dimension ::= decimal-integer

entry-identifier ::= identifier

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equate-identifier ::= identifier

external-identifier ::= identifier

file-code = hexadecimal-digit hexadecimal-digit

file-name-identifier ::=  $\left. \begin{array}{l} \text{identifier} \\ \text{array-identifier}(\text{index-identifier-1} \\ \quad [\text{index-identifier-2}]) \\ \text{formal-parameter} \end{array} \right\}$

formal-parameter =  $\left. \begin{array}{l} \text{identifier } ( ) [\text{identifier}] \\ \text{identifier } ( , ) [\text{identifier, identifier}] \\ \text{identifier} \\ \$\text{identifier} \end{array} \right\}$

format-list-identifier ::= identifier

format-table-identifier ::= identifier

hexadecimal-digits ::= 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F

hexadecimal-integer ::= hexadecimal-digit . . . 1

identifier ::= letter [alphanumeric-character] . . . ]

index-identifier ::= identifier 8

key-table-identifier ::= identifier

key-value ::=  $\left\{ \begin{array}{l} \text{value-expression} \\ \text{equate-identifier} \end{array} \right\}$

label ::= identifier

length ::= decimal-integer

letter ::= A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

literal constant ::= [value-type] 'value'

module-name ::= identifier

picture-character ::= A | B | E | F | P | T | V | X | Z | 0 | 9 | + | - | \* | . | ,

picture-string ::= 'picture-character . . .'

pointer-identifier ::=  $\left\{ \begin{array}{l} \text{identifier} \\ \text{array-identifier}(\text{index-identifier-1} \\ \quad [\text{index-identifier-2}]) \\ \text{formal-parameter} \end{array} \right\}$

size-identifier ::=  $\left\{ \begin{array}{l} \text{identifier} \\ \text{array-identifier}(\text{index-identifier-1} \\ \quad [\text{index-identifier-2}]) \\ \text{formal-parameter} \end{array} \right\}$

statement-identifier ::= identifier

string ::= string-character . . .

string-character ::= ISO-7-character

subroutine-identifier ::= identifier

task-identifier ::= letter decimal-digit | letter letter

value ::=  $\left\{ \begin{array}{l} \text{decimal-number} \\ \text{hexadecimal-integer} \\ \text{string} \\ \text{decimal-integer} \end{array} \right\}$

value-expression \* =  $\left\{ \begin{array}{l} \text{decimal-integer} \\ \text{value-type 'value'} \\ \text{equate-identifier} \end{array} \right\} \left[ \left\{ \begin{array}{l} + \\ - \end{array} \right\} \left\{ \begin{array}{l} \text{decimal-integer} \\ \text{value-type 'value'} \\ \text{equate identifier} \end{array} \right\} \dots \right]$

value-type ::= C | D | W | X

volume-identifier ::=  $\left\{ \begin{array}{l} \text{identifier} \\ \text{array-identifier}(\text{index-identifier-1} \\ \quad \quad \quad [\text{index-identifier-2}]) \\ \text{formal-parameter} \end{array} \right\}$

