1.3 Data Division

1.3.1 Introduction

The data division contains declarations which define the type, length and value of data items used as operands in the program, together with declarations which define the interface between the application program and the rest of the PTS System. The use of directives in the data division is discussed in Section 1.2. The general layout of the data division is shown below.

There must be one terminal class declaration for each terminal class used by the program. The terminal class declarations may be made in any sequence, but they must all appear at the start of the data division.

There must be one begin block declaration for each block identifier specified in the work block declarations. The begin block declarations may be made in any sequence and must appear after the last terminal class declaration.

```
TERM etc.
                     - Terminal class declaration(s)
  CWB etc.
  TWB etc.
                      - Workblock declarations
  UWB etc.
  DWB etc.
  SWB etc.
[DSET] etc.

    Data set declarations

                     - Format control I/O declaration
[FMTCTL] etc.
                     - Start point declaration
[START] etc.
[REENTER] etc.
                     - Reenter point declaration
                     - Stack declaration
STACK etc.
BLK or DBLK
                      - Begin block or begin dummy block
                        declaration
  BIN etc.
  BINI etc.
  BCD etc.
                     - Data item declaration(s)
  BCDI etc.
  BOOL etc.
  STRG etc.
  STRGI etc.
```

1.3.2 Terminal Class Declaration

The TERM declaration identifies the terminal class with a unique two character task identifier. It is followed immediately by the relevant work block declaration(s), start point directive, data set declaration(s) and stack declaration.

1.3.3 Work Block Declarations

There may be a maximum of 15 work block declarations in each terminal class. These declarations refer to the block identifiers specified in the begin block declarations (BLK or DBLK).

Several work block declarations may recent to a single block identifier. This implies that these work blocks are defined under a single beam block declaration. For terminal work blocks, user work blocks and swappable work blocks this facility is merely a form of programming shownamed of does not mean that these work blocks are "overlayed" or "common, all booker, the lecility sales the effort of writing out identical sets of declarations a number of tenes, for common work blocks, more than one reference to a single block identifier results in the generation of a single work block which can be used by several tasks.

Dummy work blocks are used to redefine a terminal-, common-, user-, or swappable work block in the same ferminal class.

If a block identity is us, the more than one work block declaration, each declaration must always occupy the same position relative to the other work block declarations in the same terminal class. See the Declaration Reference Section (1.3.9) for an illustration of this rule.

1.3.4 DSET, FMFCTL, STAAT, REGINTER and STACK

The DSET decision specifies those dara sets which are to be used in this farminal class. The declaration is optional.

The FMTCTL decraration indicates the format control I/O feature will be used in this terminal class.

The START directive indicates the start point for the task(s) associated with this terminal class.

The REENTER directive can be used with memory management, to refer to a closing routine which will be executed when it is impossible to read a code segment in main memory or from disk.

The STACK declaration specifies the size of the stack to be allocated to this terminal class. The declaration is optional.

1.3.5 Begin Block Declaration

1.3.5.1 General

The BLK or DBLK declaration identifies the work block defined by the data item and array declarations which follow.

Work blocks are used to define areas of memory which may be used for input/output buffers and/or work locations. Dummy work blocks do not occupy memory locations but are redefining existing work blocks in the same terminal class.

The instruction of a CREDIT program are held in as a single memory copy during execution. However, the number of copies of work blocks which exist in memory depends upon the configuration of the PTS System used by the application. The number of work blocks needed depends upon the number of work positions and upon the number of users who will operate—these work positions. The work blocks are actually generated when the application program is loaded into core.

They are generated by a part of TOSS System Software, the SYStem LOADing program (SYSLOD). The use of SYSLOD is discussed in part two of this manual.

1.3.5.1 Terminal Work Blocks

One or more terminal work blocks (TWB) may be defined for each terminal class within a program. A separate copy of the terminal work blocks will exist in memory for each task activated for a particular terminal class. Each copy may be used only by its associated task and cannot be used for exchanging data with other tasks.

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where on the control of the property of the same block is generated. They may be referenced by property of the terminal class. If the same block identifier is used in the work block departs to the property are sterminal class, then the tasks belonging to these terminals are same block identifier.

1.3.54

In this case and the second se

To maintain uses the total lenses of memory are required which are associated with individual transfer and the local transitions. These areas of memory are called user work places of the second of t

One or move that the control of the weath different block-identifier, may be defined for each detroidable of the control of th

Tasks one one confirm the appearsh block if they belong to a terminal class which contents a declination of a decline work blocks. Furthermore, a task may only refer to a user work part of a declinal ISE instruction specifying the block identifier and index identifier on the appearance of the integer broad the arrival as used to differentiate between user work blocks of the same termination of the arrival as a seed to differentiate between user work blocks of the same termination of the arrival as a seed to differentiate between user work blocks of the same termination of the arrival as a seed to differ and user workblock type at the same time. This settled is a declination of the application problem.

A duranty which is a complete the block referenced by the block identifier, between the rest. At a complete will be declaration, the Inition starts at the beginning of the referenced model and a complete remained class, and continues sequentially. Reducible is a complete or a first type of data items but is restricted to the size of the defined work that it

Example:

	1 V 1 1
	$\mathcal{A}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}}$
T91	
13.7	
1.1	
4: - A	
1:1	
Γ^{-1}	
5.17	
5.3	

DB1	DBLK		
DU1	BCD	8	rometines BN1 and BN2
STRU1	STRG	11	redefines D1, D2 and ST1

When data item DU1 is processed the memory locations for BN1 and BN2 are used as decimal-data-item. The user must be awar of this situation when data-item BN1 or BN2 is processed afterwards, while it is to in processed as binary data item. Dummy work blocks may contain data-items of type BCOL, BIN, BCD, STRG, BINI, BCDI or STRGI. No initial values may be assigned to these data-items as no memory space is allocated. For data-items of type decimal and string, the length of each item must be declared explicitly.

1.3.5.6 Swappable Work Blocks (SWB)

Swappable work blocks are disk resident and in use similar to user work blocks. A swappable work block type, different beautifier, is read into memory only when it is attached to a task with the USE instruction.

One copy of a swappable work block type may be present in main memory at the same time and is allocated to one task as long as it stays in main memory. However, they can be used by a multiple of tasks but not simultaneously. One area in main memory is reserved for each swappable work block type per task.

The swappable work block is set under exclusive access on the diskfile \$SWAP. Exclusive access is released when the instruction UNUSE is executed for that particular work block type. Data which is not frequently used can be stored in these work blocks. A swappable work block is rewritten on disk after it is detached from the task, by executing the UNUSE instruction. The work blocks are copies onto a disk file \$SWAP, at system loading time by the system loading program (SYSLOD).

File \$\$WAP must be a standard file (\$\\$\text{type}\) with record length 400 and blocking factor 1.

1.3.6 Data Item and Array Declarations

1,3.6.1 General

These declarations describe the data items and arrays of which the work blocks are composed.

Data items may be binary coded decimal (BCD), binary (BIN), boolean (BOOL) or string (STRG). The mnemonics BCD, BIN, BOOL and STRG are known as "data item types". Arrays may be binary coded decimal (BCDI), binary (BINI) or String (STRGI). The mnemonics BCDI, BINI and STRGI are known as "array types". These types should be distinguished from the "value types" described below.

Any BIN or BINI declarations must appear at the start of the work block.

1.3.6.2 Data Item Declarations

A data item declaration has the following general format:

Data-item-specification specifies the length, value type and value of the data item. It has the following general format in both data item declarations and array declarations:

```
length [ [value-type] ['value'] ]
value-type ['value']
'value'
```

where:

Length

is a decimal integer indicating the length of the item. It has the following significance:

BCD and BCDI — Length indicates the number of (4 bit) digits in the data item

BIN and BIN! — Length need not be used. If value-type is W, length may only be 1. If value-type is X or D, length indicates the number of (4 bit) digits in the data item. If value-type is C, length indicates the number of (8 bit) ISO-7 characters in the data item.

Value-type is one of the characters D, W, X or C, and specifies whether value is to be stored in memory as decimal (D), binary (W), hexadecimal (X) or string (C).

The following combinations of data item type and value-type are allowed:

BCD and BCDI — D or X
BIN and BINI — C, D, W or X
STRG and STRGI — C or X

If value-type is not specified, the following defaults are assumed:

BCD and BCDI — D BIN and BINI — W STRG and STRGI — C

Value

specifies the value to be assigned to the data item. If value is longer than the specified length will allow, then:

BCD, BCDI, BIN and BINI — value is truncated at the left. The least significant digits are placed in the data item.

STRG and STRGI — value is truncated at the right. The leftmost characters in value are placed in the data item.

If value is shorter than the specified length will allow, then:

BCD, BCDI, BIN and BINI — value is right adjusted and zero filled on the left.

STRG and STRGI — value is left adjusted and the data item is filled on the right by repeating the rightmost character of value.

If value is not specified, then:

BCD, BCD1, BIN and BIN1 - value is assumed to be zero.

STRG and STRGI — value is assumed to be ISO-7 spaces.

Value must be written as a decimal number, a hexadecimal integer or a character string, depending upon value-type. The rules are as follows:

D -- decimal number

X — hexadecimal integer

W - decimal number

C - character string

Value will be stored in the data item in the following way: BCD and BCDI — The digits in value are placed directly in the data item without conversion. Each digit occupies four bits.

BIN and BINI — If value-type is W, value is converted from decimal to binary representation and then stored. If value-type is X or D, value is placed in the data item without conversion. Each digit occupies four bits. If value-type is C, the ISO-7 hexadecimal representation of the characters is placed in the data item. One character occupies eight bits

STRG and STRG1 — If value-type is C, the ISO-7 hexadecimal representation of the character is placed in the data item. One character occupies eight bits. If value-type is X, value is placed directly in data item without conversion. Each digit occupies four bits.

If length is omitted, the length of the data item is implied by the specified value-type and value.

Binary (BIN) data items have a fixed length of one word. For this type of data item length, value-type and value may all be omitted.

1.3.6.3 Array Declarations

An array declaration has the following general formats.

array-identifier
$$\sqcup$$
 $\left\{\begin{array}{l} \mathsf{BCDI} \\ \mathsf{STRGI} \end{array}\right\}$ \sqcup $\left\{\begin{array}{l} \mathsf{(dimension [,dimension]),} \\ \mathsf{data}\text{-item-specification [, 'value']} \end{array}\right\}$ array-identifier \sqcup BINI \sqcup $\left\{\begin{array}{l} \mathsf{(dimension [,dimension])} \\ \mathsf{(dimension [,dimension])} \end{array}\right\}$

The use of the data-item specification has been described above. If there are fewer "values" in data-item-specification than there are data item occurrences in the array, the last "value" specified is repeated in the remaining data item occurrences.

If a value is defined, longer than the value defined by the first list element, it is truncated according to the rules defined in 1.3.6.2.

"dimension" (or the product of the dimensions if there are two) indicates the number of occurrences of the data item in the array. Each dimension must be a decimal integer. A maximum of two dimensions is allowed.

When setting an index to refer to an array, the first occurrence in each (limension is always counted as one. For a two dimensional array both indices must lie in the range 1 to 255. A one dimensional array is not restricted in this way.

An initial value may be assigned to an array. This is done by listing, in the array declaration, the values to be assigned to each occurrence. Each value must as pear in quotes and must be separated from the next value by a comma. For example:

The Translator will set these values up in the array row by row from left to right, as follows:

0001	0002	0003	0004
0005	0006	0007	0008
0009	000A	000B	000C
000D	000F	OODE	0000

The array will be referenced in the following manner:

```
TAB (X, Y) has the value 2 (where contents of binary-data-items, X = 1 and Y = 2)
```

TAB (X, Y) has the value X 'A' (where contents of binary-data-items, X = 3 and Y = 2)

1.3.7 Data Items

A data item is the most elementary unit of data that can be used as an operand in a CREDIT instruction. Data items are defined by data item or array declarations and are refered to by their data item identifier or array identifier and dimension(s):

Type of declaration data-item-declaration array-declaration

Type of reference data-item-identifier array-identifier (index-identifier-1 [,index-identifier-2])

In this Manual data items are referred to as "decimal data items", "string data items" etc. These data items may be defined by either data items or array declarations (except for boolean):

Type of declaration		Type of data item
binary-data-item-declaration binary-array-declaration	}	binary-data-item
boolean-data-item-declaration		boolean-data-item
decimal-data-item-declaration decimal-array-declaration	}	decimal-data-item
string-data-item-declaration string-array-declaration	}	string-data-item

Data items which have a special significance in a group of instructions have been given special names. There are three data items in this category: index, pointer and size. These names are used in order to simplify the descriptions of these groups of instructions. However, the data items are held in memory and operated upon in exactly the same way as other data items.

An index is used in the IB and PERFI instructions.

It is used in these instructions to select a particular statement identifier or external identifier from a specified identifier list. Index must always be defined as a binary data item.

A pointer is used in the COPY, DLETE, EDIT, INSRT, MATCH and XCOPY instructions. It is used in these instructions to point to an individual character in a data item. Pointer must always be defined as a binary data item.

A size is used in the COPY, DLETE, INSRT, KI, MATCH, NKI, WRITE, IREAD, IWRITE, RREAD, RWRITE and READ instructions. It is used in these instructions to indicate the size of the data item segment upon which the instruction is operating. Size must always be defined as a binary data item.

1.3.8 Work Blocks

For each work block the translator generates a 16 or 256 entry pointer table maximum, depending on the value assigned to ADRMOD in the OPTNS directive. The entries in each of these tables point to the non-boolean (i.e. binary, decimal or string) data items and arrays in the associated work block. Each non-boolean data item in a work block occupies one entry in the pointer table. Each array occupies two entries. The number of non-boolean data items and array declarations in each work block must be such that the number of entries in the pointer table does not exceed 16 or 256.

The following combination is possible (ADRMOD=1):

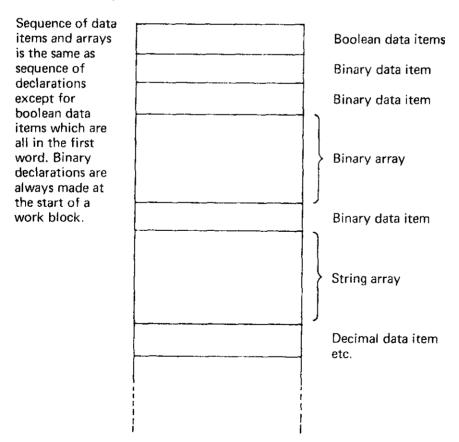
4 data item declarations — requiring 4 entries
6 array declarations — requiring 12 entries

Total 16 entries

The pointer table is not used for boolean data items. This is because all boolean data items in a work block are stored in the first word of that block. The maximum number of boolean data items in a work block is therefore 16.

Memory for non-boolean data items and arrays is allocated in the same sequence as the corresponding data item and array declarations appear in the CREDIT listing.

An example work block layout is shown below:



The last data item declared in a work block may not have a start from a displacement higher than 32767.

1.3.9 Declaration Reference

This section describes the syntax and use of each declaration. The possible values of the variables in declarations is given in appendix 1. The notation conventions are described in section 1.1.5.

BCD

Decimal data item

BCD

Syntax:

data-item-identifier L BCD L data-item-specification

Description:

Decimal data items are of variable length, varying from 1 to 510 decimal

digits (sign included) and occupying a whole number of bytes.

Example:

memory representation:

R BCD

4'--9'

X'D009'

S BCD X'BFF40'

X'BFF400'

The sign is the most significant tetrad: D = negative, B = positive

The character 'F' in the above example denotes a "BCD space". This character is treated as zero in arithmetic operations. However, if the data item is edited and printed, BCD spaces will appear as blanks. Under certain circumstances BCD spaces are generated by the MOVE

instruction.

BCDI Decimal array BCDI

Syntax: array-identifier uBCDI u (dimension [,dimension]),

data-item-specification [,'value'] ...

Description: Within the array all elements have a fixed size. The size for decimal

array elements may vary from 1 to 510 digits (sign included). The size of an element is derived from the first element in the list. A one dimensional array may contain maximum 32767 elements. A two dimensional array may vary from 1 to 255 elements per row and 1 to

255 elements per column. (Maximum 255*225 elements)

When an array is partly initialized, the last defined element will be

copied until all remaining elements are filled.

Example: TAB1 BCDI (25),6D'-94278'

TAB2 BCDI (3), '1','2','3'
TAB3 BCDI (2,5), 6D'0'

BIN			Binary data item	BIN
Syntax:	data-	item-identif	ier ∟ BIN ∟ [data-it	tem-specification]
Description:	the d	bits. All bir ecimal and s	nary data items withi string data items and	ords and thus have a fixed length in a block must be declared before arrays. he range –32768 to 32767.
Example:	A B C D E	BIN BIN BIN BIN BIN	W'20' X'FF' 3D'100' 2C'NO	memory representation: X '0014' X '00FF' X 'B100' X '4E4F' X '0000'

BINI

Binary array

BINI

Syntax:

array-identifier •BINI • (dimension [,dimension])

[,data-item-specification] [,'value'] · · ·

Description:

Binary array elements are allocated full words and each element has a

fixed length of 16 bits.

The value of an element in the array must be within the range -32768

to 32767.

A one dimensional array may contain maximum 32767 elements. A two dimensional array can vary from 1 to 255 elements per row and 1 to 255 elements per column. (Maximum 255*255 elements). When an array is partly initialized, the last defined element will be copied until all

remaining elements are filled.

Example:

TAB1

BINI

(100),'0'

TAB2 BINI

(5), '1', '2', '3', '4', '5'

BLK

Begin block

BLK

Syntax:

block-identifier ∟ BLK

Description:

Defines the beginning of a work block.

The three leading characters of the block-identifier should be unique since the identifier is truncated if longer. The block-identifier has to correspond with the one specified in the work block directive (TWB,

CWB, UWB or SWB).

The begin block declaration must be followed by at least one data

item declaration or array declaration.

Example:

FLAG

BOOL

Syntax:

data-item-identifier \(\subseteq BOOL \subseteq \begin{bmatrix} TRUE T FALSE F \\ F \end{bmatrix}

Description: The length of a boolean variable is always one bit. A value may be declared by selecting one of the following:TRUE, T, FALSE or F.
TRUE or T corresponds with "1" and FALSE or F corresponds with "0". The default value is always FALSE (zero).

Boolean variables may not be indexed.

TRUE

BOOL

CWB

Common work block

CWB

Syntax:

□ CWB □ block-identifier

Description:

The block-identifier refers to a begin block declaration (BLK). The three leading characters of the block identifier must be unique. The

identifier is truncated if longer.

The same block-identifier may be used in different terminal classes. If this is done the common work block declaration must always occupy the same position relative to the other work blocks in the same terminal

class

A common work block is only common for those terminal classes in

which it is defined.

Example:

Legal:

TERM AO

CWB A

TWB B

UWB C

TERM BO CWB A ◀

TWB D

UWB E

lliegal:

TERM A0

CWB A

TWB B UWB C

TERM BO

TWB D

UWB E

CWB A

DBLK

Begin dummy block

DBLK

Syntax:

Block-identifier u DBLK

Description:

Defines the beginning of a dummy work block. The three leading characters of the block-identifier should be unique since the identifier is truncated if longer. The block-identifier has to correspond with the

one defined in the DWB directive. (block-identifier-1).

This begin dummy block declaration must be followed by at least one data item declaration or array declaration. It serves to declare a

redefinition of a work block.

DSET Data Set DSET Syntax: data-set-identifier u DSET u FC = file-code [, BUFL = decimal-integer] [, DEV = device-type] [, BUFDS = data-set-identifier] Description: A data set is an I/O device. Particular data sets may only be accessed from a task if the task belongs to a terminal class containing a DSET declaration for that data set. The same dataset declaration may be used in different terminal classes. If this is done, the dataset declaration must always occupy the same position relative to the other dataset declarations in all terminal classes in which it is used. The keyword parameters FC, BUFL and DEV may be written in any sequence. They have the following significance: BUFL Buffer length. If this parameter is present a fixed buffer is allocated. The parameter value is a decimal integer giving the length in characters. BUFDS Buffer data set. If this parameter is present, the preceding buffer length (BUFL) will be shared with the data set buffer indicated by the data-set-idientifier after BUFDS. The buffer size must be smaller than the shared buffer. DEV Device type. Parameter value consists of two letters (see following device type list). FC TOSS file code. Parameter value consists of two hexadecimal digits (see following file code list). Any unrecognized keywords are ignored. Example: PRT 1 **DSET** FC = 40, DEV = LP, BUFL = 120 OWNER DSET FC = 32, DEV = TV, BUFL = 100 SHARE DSET FC = 31, DEV = TR, BUFL = 36, BUFDS = OWNER TOSS Device type: Meaning: Card Reader CR DC **Data Communication** DG Graphic display DI Indicator display Logical disk file DL DN Numeric display Alphanumeric display (VDU) DY GP General printer

In In In In In In In In	DSET
	eaning: Itertask input Itertask output Iphanumeric keyboard eyboard indicators umeric keyboard ne Printer agnetic Tape (1/2 inch) Instem Operator's panel Switches Instem Operator's panel lamps Instem Operator's pane
(hexadecimal) 10	estem operator panel-in. Estem operator panel-out. Estem operator nr. 2 Emote line test Esyboard Esterved for future use. Ester printer. Ester printer. Ester printer (TJ, TV, TR) Ester printer (TJ, TV, TR) Ester printer display Ester display Ester and reader Esterved for future use Ester task communication-input Ester task communication-output Esterved for system

DWB Dummy work block Syntax: □ DWB □ block-identifier-1(block-identifier-2) Description: Block-identifier-1 refers to the begin dummy block declaration (DBLK), where block-identifier-2 refers to a work block declared in the same terminal class, which will be redefined. The three leading characters of both block identifiers must be unique. The identifiers are truncated if longer. The same blockidentifier-1 may be used in different terminal classes. If this is done the dummy work block declaration must always occupy the same position relative to the other work blocks in the same terminal class. Example 1: **TWB** TB1 **DWB DB1** (TB1) TB1 BLK DB₁ **DBLK** Example 2: Legal TERM A0 **TWB TB1** TWB TB₂ **DWB** DB2 (TB1) B0 **TERM TWB TB1 TWB TB4 DWB** DB2 (TB1) ◄ Illegal **TERM** A0 **TWB** TB₁ TWB TB2 **DWB** DB2 (TB1)

TERM

TWB

DWB

TWB

В0

TB1

TB3

DB2 (TB1)

DWB

Format control 1/0 **FMTCT FMTCTL** INDS=data-set-identifier, OUTDS=data-set-identifier Syntax: OUTDS=data-set-identifier, INDS=data-set-identifier Description: A format control I/O declaration, must follow the data set declarations immediately. It specifies that this terminal class will use the format control I/O feature. Data-set-identifier after INDS specifies the input device and after OUTDS the output device, used for format controlled 1/O, FMTCTL and referenced data sets must be in the same terminal class. DSET FC = 20, DEV = KBExample: DSKB FC = 50, DEV = DY, BUFL = 90 DSDY DSET DSGP DSET FC = 30, DEV = GP, BUFL = 90FMTCTL INDS = DSKB, OUTDS = DSDY

STACK Stack	STACK
-------------	-------

Syntax: ☐ STACK ☐ size

Description: Allocates a user memory stack.

Size is a decimal integer indicating the size of the stack in bytes. If the stack declaration is omitted a default stack size of 128 bytes is allocated. This declaration should occur after the START or REENTER declara-

tion.

STRG STRG String data item Syntax: data-item-identifier L STRG L data-item-specification Description: Strings are of variable length and occupy a whole number of characters. The length varies from 1 to 4095 characters. Example: memory representation: **STRG** 7'HEADING' X'48454144494E47' ALL BTA 8X'42455441' X'42455441' STRG BET 4'BETA' X'42455441' **STRG** F1 5C'AB' X'4142424242' STRG F2 **STRG** 5C'ABCDEF' X'4142434445'

STRGI

Syntax: array-identifier
STRGI (dimension [,dimension])
,data-item-specification [,'value']

Description: Within an array all elements have a fixed size. The size for a string array

element may vary from 1 to 4095 bytes. The size of an element is derived from the first element in the list. A one dimensional array may contain maximum 32767 elements. A two dimensional array may vary from 1 to 255 elements per row and 1 to 255 elements per column. (Maximum 255*255 elements). When an array is partly initialized, the less elements will be considered until all remaining elements are filled.

last element will be copied until all remaining elements are filled.

Example: TAB1 STRGI (10, 10), 32C' 'TAB2 STRGI (10),40C

SWB Swappable Workblock SWB

Syntac: SWB _ block-identifier.

Description: The block-identifier refers to a begin block declaration (BLK). The

three leading characters of the block-identifier must be unique. The

identifier is truncated if longer.

The same block-identifier may be used in different terminal classes. If this is done the swappable workblock declaration must always occupy the same position relative to the other workblocks in the same terminal class.

A task can only access a swappable work block after the USE instruction has been executed by that task. It can be detached from the task by executing the UNUSE instruction.

Example: Legal: Illegal: TERM A0 TERM A0

SWB

D

CWB Α **CWB** Α **TWB** В **TWB** В С UWB С UWB **SWB** D **SWB** D

TERM BO

CWB E

TWB F

TWB G

TERM BO

CWB E

TWB F

TWB F

TWB

Н

TERM

Terminal class

TERM

Syntax:

Description:

This declaration followed by a maximum of 15 work block declarations describes a class of terminal.

The task identifier must consist of a letter followed by a digit or a letter.

Note: Task identifier is the same as the task identifier specified at system loading time. (SYSLOD)

UWB E

TWB Terminal work block TWB □ TWB □ block-identifier Syntax: The block-identifier refers to a begin block declaration (BLK). The three Description: leading characters of the block identifier must be unique. The identifier is truncated if longer. The same block-identifier may be used in different terminal classes. If this is done the terminal work block declaration must always occupy the same position relative to the other work blocks in the same terminal class. Illegal: 1 Example: Legal: TERM A0 **TERM A0** CWB A CWB A TWB B TWB B UWB C UWB C TERM BO TERM BO CWB D CWB D TWB B UWB E

TWB B ◀

UWB C

UWB User work block **UWB** Syntax: Description: The block-identifier refers to a begin block declaration (BLK). The three leading characters of the block identifier must be unique. The identifier is truncated if longer. The same block-identifier may be used in different terminal classes. If this is done the user work block declaration must always occupy the same position relative to the other work blocks in the same terminal class. A task may only access a user work block after a USE instruction has been executed by that task. It can be detached from the current task by executing the UNUSE instruction. Example: Legal: Illegal: **TERM AO** TERM AD CWB A CWB A TWB B TWB B UWB C UWB C ◀ **TERM BO TERM BO** CWB D CWB D TWB E UWB C

TWB E