

Reality

V10.0

Terminal Definition Maintenance

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Document No. UM70006936A June 2003

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Chapter 1 About this Manual

This chapter describes the different sections of this manual and any conventions used.

1-1

Purpose of this Manual

This manual tells you how to configure cursor addressing for foreign terminals to allow them to run under Northgate's Reality operating system.

Chapter 1, About this Manual, describes the different sections of the manual and any conventions used.

Chapter 2, Introduction to Terminal Definition Maintenance, defines the Terminal Definition Maintenance (TDM) program and explains its supporting file structures.

Chapter 3, Defining Terminal Types, tells you how to use TDM to define cursor addressing for your foreign terminal.

Appendix A is an ASCII chart.

Appendix B is a table of column and row addresses with their associated characters, for TDM-defined cursor addressing types A, H, L and T.

Appendix C gives three sample terminal definitions: one for the Prism-IV and two others for foreign terminals.

Appendix D tells you how to add new cursor addressing fields to the TERMTYPE menus.

Appendix E is an explanation of the ELINE editor, which is used to create definition fields for the TERMTYPE menus.

Conventions

The following conventions are used in this manual:

Text Bold text shown in this typeface is used to indicate input

which must be typed at the terminal.

Text Shown in this typeface is used to show text that is

output to the screen.

Bold text Bold text in syntax descriptions represents characters

typed exactly as shown. For example

WHO

Text Characters or words in italics indicate parameters which

must be supplied by the user. For example in

LIST file-name

the parameter file-name is italicized to indicate that you must supply

the name of the actual file defined on your system.

Italic text is also used for titles of documents referred to by this

document.

{} Braces enclose options and optional parameters. For

example in

BLIST {DICT} file-name item-id **{(options)**

The word **DICT** can optionally be typed to specify the dictionary of

the file.

file-name and item-id must be supplied.

One or more single-letter options can be included, as defined for the command; these must be preceded by an open parenthesis, can be given in any order, and are not separated by spaces. Any number of

options can be used except where specified in text.

.. In syntax descriptions, indicates that the parameters

preceding can be repeated as many times as necessary.

SMALL CAPITALS Small capitals are used for the names of keys such as

RETURN.

CTRL+X Two (or more) key names joined by a plus sign (+)

indicate a combination of keys, where the first key(s) must be held down while the second (or last) is pressed. For example, CTRL+X indicates that the CTRL key must

be held down while the X key is pressed.

Enter To enter means to type text then press RETURN. For

instance, 'Enter the WHO command' means type WHO,

then press RETURN.

About this Manual 1-3

In general, the RETURN key (shown as ENTER or

on some keyboards) must be used to complete all terminal input unless

otherwise specified.

Press Press single key or key combination, but do not press

RETURN afterwards.

X'nn' This denotes a hexadecimal value.

(Y/n) This option means that you can select **Y** by pressing

RETURN only.

(M/d) This option means that you can select **M** by pressing

RETURN only.

TERMTYPE This word refers to the number entered in field 8 of the

TERM or TERMINAL command.

terminal name Refers to the item-id given to the TERMTYPE item for a

particular terminal.

User Comments

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About this Manual 1-5

Chapter 2

Introduction to Terminal Definition Maintenance

This chapter defines the Terminal Definition Maintenance (TDM) program and explains its supporting file structures.

TDM Defined

Because each terminal manufacturer has its own unique method for specifying cursor control strings and strings for performing special functions such as clearing the screen, moving the cursor back, and so on, it is difficult for an operating system manufacturer to provide tables for controlling all terminal types.

The program TDM (Terminal Definition Maintenance) allows end users to configure their own foreign terminals for Northgate's Reality operating system.

Using TDM, you can define up to 43 different terminal types (TERMTYPEs 21 to 63, inclusive).

TERMTYPEs 0 to 20 are reserved by Northgate for defining native terminal types.

Once a terminal has been defined by TDM, you can make it available for use by your process by specifying its TERMTYPE number in field 8, TERMINAL TYPE, of the **TERM** or **TERMINAL** command.

File Structures for TDM

Terminal definitions are stored in the CURSOR-DEPS file in the SYSPROG account.

The item-id for each item is the name of the terminal it defines, and the attributes of the item are the definition of the terminal type.

Attribute definitions are stored in the DICT CURSOR-DEFS file in the SYSPROG account. The item-id for each item is LINEn, where n is the number of the field in the TERMTYPE menus.

When you file a terminal definition by typing FT at one of the TERMTYPE menus, each item in CURSOR-DEFS is processed, and the resulting cursor addressing strings are loaded into Reality operating system tables.

Caution

You cannot access the cursor positioning definition tables while a TERMTYPE definition is being loaded.

If you attempt to do so, Reality returns a CR/LF pair instead of the requested cursor control string.

The loading process is very brief, and the new table is available as soon as it has been loaded.

Chapter 3 Defining Terminal Types

This chapter tells you how to use TDM to define cursor addressing for your foreign terminal.

Introduction

This chapter tells you how to use the Terminal Definition Maintenance (TDN) program.

The control flow for this program is depicted in Figure 3-1.

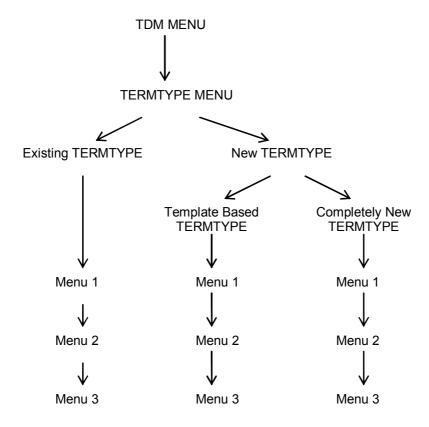


Figure 3-1. Menu Control Flow for TDM

Invoking the TDM Menu

TDM is a cataloged DataBasic program on the SYSPROG account.

To invoke TDM, enter TDM at the TCL prompt (see Figure 3-2).

The program displays a list of existing terminal types (TERMTYPE) and asks you to select any TERMTYPE in the range of 21 to 63, inclusive.

```
:TDM

Terminal Definition Maintenance 10:49:49 23 JUL 1988

21 VIEWPOINT
22 HAZELTINE
23 QVT-102
24 QVT-511
25 ADM-12
26 ANPEX-210
27 5750/P99
28 PRISM-IV
29 PRISM-VIII

Input a TERMIYPE from 21 to 63, "EX" to exit, "FI to build table or "?":29
```

Figure 3-2. Invoking the TDM Menu

Exiting the TDM Program

To exit the TDM program and return to TCL, enter **EX** at the Input a TERMTYPE from 21 to 63, "EX" to exit, "FI" to build table or "?" prompt on the TDM menu.

Building a TERMTYPE Table

To file your new or modified TERMTYPE entry, enter FI at the Input a TERMTYPE from 21 to 63, "EX" to exit, "FI" to build table or "?" prompt on the TDM menu.

Online Help Messages

Online documentation is provided with the TDM software.

To access these online help screens, enter? at the:

```
Input a TERMTYPE from 21 to 63, "EX" to exit, F1 to build table or "?": prompt on the TDM menu,
```

Or at the

```
Field \#, <cr> for next page, "EX" to exit, "FI" to file changes, or "?": prompt on the TERMTYPE menu.
```

Modifying an Existing TERMTYPE

To modify an existing TERMTYPE, enter its number in response to the TDM menu. The TDM program asks you if you want to modify or delete the existing item.

Press RETURN or enter **m** and change the existing item.

Enter **D** to delete the item (see Figure 3-3).

```
Terminal Definition Maintenance 10:49:49 23 JUL 1988

21 VIEWPOINT
22 HAZELTINE
23 QVT-102
24 QVT-511
25 ADM-12
26 ANPEX-210
27 5750/P99
28 PRISM-IV
29 PRISM-VIII

Modify or Delete terminal PRISM-VIII, TERMTYPE 29 (M/d):M
```

Figure 3-3. Invoking the TERMTYPE Menu

After you type N at the TDM menu, the program presents you with the TERMTYPE menu filled in for the TERMTYPE you want to modify (see Figure 3-4).

Make the necessary modifications and

- Enter F1 to file the changes, or
- Enter Ex to exit the menu at any time, or
- Enter ? to get online assistance.

```
Terminal Definition Maintenance
                                                      10:49:49 23 JUL 1988
TERMTYPE: 31
Terminal: PRISM-VIII
1 TERMTYPE
                                                           : 31
2 Max column, Max row
                                                           : 131,23
3 Cursor Address type (A,L,T,H,D,X)
                                                           : CHAR (16) C
4 @(C) cursor positioning
5 @(C,R) cursor positioning
                                                           : CHAR(11) R CHAR(16) C
6 Visual attributes definition (D)
                                                           : D
  "D" character for DIM attribute
                                                          : HEX(81)
                                                          : HEX(82)
8 "D" character for FLASHING attribute
9 "D" character for REVERSE attribute
10 "D" character for BLANK attribute
                                                          : HEX(88)
11 "D" character for UNDERLINE attribute
                                                           : HEX (90)
12 Visual attributes 'off' definition
                                                           : HEX(80)
13 Embedded visual attributes (Y/N)
                                                           : Y
14 Force vis. attr. to one \operatorname{column}(Y/N)
15 Endow vis. attr. with effects(Y/N)
Field #,<cr> for next page, "EX" to exit, "FI" to file changes, or "?":?
```

Figure 3-4. TERMTYPE Menu with Characteristics for a Prism 7 Terminal Filled In

Creating a New TERMTYPE

To create a new TERMTYPE, enter a number that isn't listed in the TDM menu display (see Figure 3-5).

```
Terminal Definition Maintenance 10:49:49 23 JUL 1988

21 VIEWPOINT
22 HAZELTINE
23 QVT-102
24 QVT-511
25 ADM-12
26 ANPEX-210
27 5750/P99
28 PRISM-IV
29 PRISM-VIII

Input a TERMTYPE from 21 to 63, "EX" to exit, "FI to build table or "?":30
```

Figure 3-5. Creating a New TERMTYPE

Verifying the New TERMTYPE Number

The program asks you to verify that the number you have chosen is the one you want to use for your new TERMTYPE (see Figure 3-6).

```
Terminal Definition Maintenance 10:49:49 23 JUL 1988

21 VIEWPOINT
22 HAZELTINE
23 QVT-102
24 QVT-511
25 ADM-12
26 ANPEX-210
27 5750/P99
28 PRISM-IV
29 PRISM-VIII

Create a new TERMTYPE 30?:Y
```

Figure 3-6. Verifying a New TERMTYPE Number

Creating a New TERMTYPE Name

After you verify the number of the new TERMTYPE, the program asks you for a name (see Figure 3-7).

```
Terminal Definition Maintenance 10:49:49 23 JUL 1988

21 VIEWPOINT
22 HAZELTINE
23 QVT-102
24 QVT-511
25 ADM-12
26 ANPEX-210
27 5750/P99
28 PRISM-IV
29 PRISM-VIII

What is the terminal name for this new TERMTYPE?:PRISM-X
```

Figure 3-7. Creating a New TERMTYPE Name

Selecting a TERMTYPE to Use as a Template

Once you specify a name, TDM prompts you to select an existing TERMTYPE to be used as a template for creating your new TERMTYPE (see Figure 3-8).

```
Terminal Definition Maintenance 10:49:49 23 JUL 1988

21 VIEWPOINT
22 HAZELTINE
23 QVT-102
24 QVT-511
25 ADM-12
26 ANPEX-210
27 5750/P99
28 PRISM-IV
29 PRISM-VIII

Input a current terminal name or TERMTYPE to use as a template: PRISM-IV
```

Figure 3-8. Creating a New TERMTYPE from an Existing TERMTYPE

The program then displays the template TERMTYPE (Figure 3-9) and waits for your input.

You can exit the menu at any time by entering Ex.

```
Terminal Definition Maintenance
                                                     10:49:49 23 JUL 1988
TERMTYPE: 30
Terminal: PRISM-X
1 TERMTYPE
                                                          : 31
2 Max column, Max row
                                                          : 79,23
3 Cursor Address type (A,L,T,H,D,X)
                                                          : A
                                                         : CHAR(16) C
4 @(C) cursor positioning
5 @(C,R) cursor positioning
                                                         : CHAR(11) R CHAR(16) C
6 Visual attributes definition (D)
                                                         : D
  "D" character for DIM attribute
                                                         : HEX(81)
8 "D" character for FLASHING attribute
                                                         : HEX(82)
9 "D" character for REVERSE attribute
                                                         : HEX(84)
10 "D" character for BLANK attribute
                                                         : HEX(88)
11 "D" character for UNDERLINE attribute
                                                         : HEX(90)
12 Visual attributes 'off' definition
                                                         : HEX(80)
13 Embedded visual attributes(Y/N)
                                                          : Y
14 Force vis. attr. to one column(Y/N)
15 Endow vis. attr. with effects(Y/N)
Field #,<cr> for next page, "EX" to exit, "FI" to file changes, or "?":?
```

Figure 3-9. TERMTYPE Menu with Characteristics for a PRISM-IV Terminal Filled In

Creating a TERMTYPE Without Using a Template

If you do not specify an existing TERMTYPE to use as a template, the program displays the first TERMTYPE menu with only the TERMTYPE information (field 1) filled in (Figure 3-10).

```
Terminal Definition Maintenance
                                                      10:49:49 23 JUL 1988
TERMTYPE: 40
Terminal: NEWTERM
1 TERMTYPE
                                                           : 40
2 Max column, Max row
3 Cursor Address type (A,L,T,H,D,X)
4 @(C) cursor positioning
5 @(C,R) cursor positioning
6 Visual attributes definition (D)
7 "D" character for DIM attribute
8 "D" character for FLASHING attribute
9 "D" character for REVERSE attribute
10 "D" character for BLANK attribute
11 "D" character for UNDERLINE attribute
12 Visual attributes 'off' definition
13 Embedded visual attributes(Y/N)
14 Force vis. attr. to one column(Y/N)
15 Endow vis. attr. with effects(Y/N)
Field #,<cr> for next page, "EX" to exit, "FI" to file changes, or "?":
```

Figure 3-10. TERMTYPE Menu With No Characteristics Filled In

Creating and Modifying the TERMTYPE Menu Attributes

This section explains how to use the three TERMTYPE menus to create or modify TERMTYPES for different vendors' terminals.

Menu 1

This menu defines the first 15 TERMTYPE attributes.

```
1 TERMTYPE
2 Max column, Max row
3 Cursor Address type (A,L,T,H,D,X)
4 @(C) cursor positioning
5 @(C,R) cursor positioning
6 Visual attributes definition (D)
  "D" character for DIM attribute
8 "D" character for FLASHING attribute
9 "D" character for REVERSE attribute
10 "D" character for BLANK attribute
11 "D" character for UNDERLINE attribute
12 Visual attributes 'off' definition
13 Embedded visual attributes(Y/N)
14 Force vis. attr. to one column(Y/N)
15 Endow vis. attr. with effects(Y/N)
Field #,<cr> for next page, "EX" to exit, "FI" to file changes, or "?":
```

1 TERMTYPE

Defines a decimal number between 21 and 63 (inclusive).

Any TERMTYPE name is valid as long as it:

- Is unique.
- Is not entirely numeric.
- Contains no blanks.
- Contains 5O or fewer characters.

The TERMTYPE is the number you type as parameter eight in the **TERM** and **TERMINAL** verbs. It is a pointer to the cursor tables used by Reality to perform input/output with the defined terminal.

2 Max Column, Max row

Defines a decimal number pair separated by a comma.

The Max column is the highest numbered addressable column supported by the terminal

The Max row is the highest numbered addressable row supported by the terminal.

If an application program tries to address an area greater than the maximum column or row, the program substitutes the maximum defined value instead.

For example, if a DataBasic program attempted to execute an @(85,10) statement to a terminal with a defined Max column, Max row of 79,23, TDM would substitute 79 for the 85 before generating a cursor address string.

3 Cursor Address Type (A,L,T,H,D,X)

Defines an ASCII character that determines a character generating scheme for cursor addressing.

Most cursor addressing schemes share a common element in that they emit the row and column as some form of number.

All address codes can be followed by a + to add one to both the row and column addresses before the row and column codes are calculated. This features is provided for terminals that define the upper left corner of the screen (home position) as physical location 1,1 rather than 0,0.

Use Appendix C, "Column and Row Addresses for TERMTYPES A, H, L, and T" for information on binary cursor addressing.

Each TDM cursor address type's method of emitting this number is discussed individually below.

Address Type	Explanation
A	ADDS.
	Formula is
	COL=CHAR((INT(C/1O)*6)+C)
	ROW=CHAR(R+64)
	Column output is binary coded decimal (BCD).
D	Decimal
	Emits a one to three ASCII decimal character (bytes) string.

Address Type	Explanation
	May be followed by two one-digit padding specifications (e.g., Dcr) to force the desired number of digits for column and row output.
	For example, D32 forces the output column string to be three digits and the output row string to be two digits.
	Output defaults to only those digits actually in the column or row. When padding is specified, leading zeros are added when necessary to reach the specified length.
L	Lear Siegler.
	Formula is
	COL=CHAR(C+32)
	ROW=CHAR(R+32)
Н	Hazeltine.
	Formula is
	COL=CHAR(C)
	ROW=CHAR(R)
Т	TEC.
	Formula is
	COL=CHAR(127-C)
	ROW=CHAR(127-4)
X	Hexadecimal.
	Emits a two byte ASCII hexadecimal string.

4 @ (C) cursor positioning

Defines the formula used to position the cursor with a horizontal only cursor specification like DataBasic's @(I0) or PROC's T (10).

The formula must include the C specification.

F and L special leading characters are not valid for this definition.

If an L is specified preceding the "@(c,r) cursor positioning" definition, line feed delays also follow all column-only cursor positioning strings.

Most terminals don't support horizontal only cursor positioning. When setting up a TERMTYPE for terminals that use this type of cursor positioning, such as ADDS devices, use the normal control sequence, e.g. CHAR(16) C.

When setting up a TERMTYPE for terminals that don't use horizontal only cursor positioning, you can simulate this function in one of two ways:

Character	Explanation
С	Specifics a column's place held in a cursor positioning string.
	The C character is replaced in the resulting string by the character(s) generated by processing the requested column position through the formula used to calculate the cursor address type (See Field 3 of Menu 1).
R	Specifies a row's place held in a cursor positioning string.
	The R character is replaced in the resulting string by the character(s) generated by processing the requested row position through the formula used to calculate the cursor address type (See Field 3 of Menu 1).
L	Specifies that the resulting string is to be appended with the number of ASCII null (NUL, X'00') characters specified in the TERM or TERMINAL parameter LF DELAY .
	This optional leading character is used when a terminal requires delay time after receiving a cursor control string before it can begin to receive more characters.
F	Specifies that the resulting string is to be appended with the number of ASCII null (NUL, X'00') characters specified in the TERM or TERMINAL parameter FE DELAY .
	This is an optional leading character.
D	Specifies a video attributes definition's place held in a cursor positioning string.
	The D character is replaced in the resulting string by the hexadecimal character generated by logically ORing the values defined in Menu 1 Fields 7, 8, 9, 10, and 11.
	This character is valid only in Menu 1, Field 6, where it indicates the eventual location of the ORed video attributes value.
'string' or "string"	Specifies a literal string.
	A literal string is any text delimited by single or double quotation

Character	Explanation
	marks.
CHAR(n)	Specifies a single character function with a binary value equal to the numeric \boldsymbol{n} .
	For example, CHAR(32) is a blank and CHAR(65) is the capital A.
CTRL(char)	Specifies a single character function with a binary value equal to the value of holding down the CTRL and pressing the <i>char</i> key.
	Values for <i>char</i> are limited to the following:
	@ A- Z [\
	1
	Λ
	-
	This function is used, for example, when a terminal's functions are enabled or disabled by sending it CTRL+A or CTRL+U characters.
HEX(x)	Generates a string of the ASCII characters equivalent to the hexadecimal string defined by <i>x</i> .
	For example, HEX(1B20) generates an ESC character followed by a blank.
	HEX(30314142) generates the string 01AB.
STR(x,n)	Generates a repetition of the string <i>x n</i> times.
	The string <i>x</i> can be any combination of the following:
	A literal.
	An ASCII control character name.
	• A CHAR(<i>n</i>) function.
	A CTRL(<i>char</i>) function.
	• A HEX(x) function.

Character

Explanation

Blanks are not allowed within the function unless they are part of a literal string or as part of a multi-element string in which each element must be preceded by a blank.

For example,

- "STR(ESC 'G' ,10)"
- "STR(ESC CTRL(A), C)"

If x is only a single element, it does not require leading and trailing blanks.

For example,

"STR(CHAR(6),C)"

and

"STR(CHAR:(6) ,C)

are equivalent expressions.

n can either be a literal number or a special character ${\bf C}$ or ${\bf R}$. When a ${\bf C}$ or ${\bf R}$ is specified, the value used for n is the input column or row value

The ${\bf C}$ or ${\bf R}$ is not preprocessed by the formulas defined in the cursor positioning types.

For example, the string,

"STR('a',5)"

generates the string aaaaa, and the string,

• "STR(CHAR(64),R)"

generates the string @@@@, and the string,

• "STR (CHAR (6), C)"

generates a string of CHAR(6)s C characters long, where C is a column specification.

ASCII name

Specifies any ASCII control character (characters 0 - 31 and character

Character	Explanation
	127) by its ASCII name.
	For example, • ESC
	• NUL
	• ACK

4 @ (C) cursor positioning (continued)

Return the cursor to the leftmost column with a RETURN and then output a cursor forward command the number of times necessary to reach the specified column.

For example, with a terminal that uses CHAR(6) as a cursor forward, use STR(CRAR(6),C). The C in this statement is not processed by the cursor addressing formula. The actual requested column number is used in place of the C.

Caution

This method does not work in all cases.

Use an internal table to store values of R.

If this field specifies the formula the same as the @(C,R) addressing, the value of R is looked up in the internal table.

This procedure works in the following example:

```
PRINT @(10,20):'A':@(30):'B'
```

because the last specified row is 20 when the @(30) command is processed.

However, this procedure does not work in the following example:

```
PRINT @(-1) :'A':@(30): 'B'
```

because the @(-1) command positions the cursor to row 9 but doesn't store the 0 in the internal table as the last used row.

Therefore when the @(30) is processed, the row it appears in is taken from the most recently specified command (i.e., @(c,r)) and the B doesn't necessarily appear on row 0.

If it works, this method executes more quickly than the first method discussed.

5@(C,R) cursor positioning

Defines the formula used to position the cursor to a specified column C and row R.

The formula must include both the C and the R specifications.

The L special leading character is not valid for this definition.

Examples:

- ESC '=' R C
- CHAR (11) R CHAR (16) C

where the R and C characters are replaced with the characters emitted by the cursor addressing formulas.

The L special leading character is used to specify that all cursor positioning strings are to be followed by line feed delays.

6 Visual attributes definition

Defines the character sequence used to enable terminal video attributes.

The actual D character used in the character sequence is computed by logically ORing the binary values of the characters defined for fields seven to eleven of this menu. The TDM program does this for you.

This field allows for any sequence of characters that includes the special character D.

When Reality processes this sequence, the D is replaced by the character produced by logically ORing the necessary elements of TDM definition fields seven to eleven to produce the desired video attribute bit pattern.

For example, an entry in field 6 of

```
SO ESC '0' D
```

when processed with a request for a dimmed underlined attribute, emits the characters SO, ESC, and 0 followed by the logically ORed characters from TDM definition fields seven and eleven, DIM and UNDERLINE.

The next example is based on the following: suppose characters 1, 2, 4, 8, and j enable the corresponding bit patterns X'31', X'32', X'34', X'38', and X'70'.

Now, if the calling program requested a video attribute list of dimmed, flashing, and reverse video, TDM would logically OR the characters 1, 2, and 4 to produce a character bit pattern of X'37'. The character X'37' would then be substituted for D in the definition statement for this field.

7 "D" character for DIM attribute

Defines the character to be used to define the DIM attribute when computing the D character.

8 "D" character for FLASHING attribute

Defines the character to be used to define the FLASHING attribute when computing the D character.

9 "D" character for REVERSE attribute

Defines the character to be used to define the REVERSE attribute when computing the D character.

10 "D" character for BLANK attribute

Defines the character to be used to define the BLANK attribute when computing the D character.

11 "D" character for UNDERLINE attribute

Defines the character to be used to define the UNDERLINE attribute when computing the D character.

12 Visual attributes 'off' definition

Defines the character sequence used to disable existing video attributes.

13 Embedded visual attributes (Y/N)

Defines whether a video attribute ON or OFF character requires a character position.

Enter \mathbf{Y} if a character position is required. If you answer \mathbf{Y} to this prompt, don't answer prompts 14 and 15 because they are irrelevant,

Enter n if a character position is not required. If you answer n to this prompt, answer prompts 14 and 15 as well.

14 Force vis. attr. to one column (Y/N)

Defines whether a video attribute character takes a character position (column) or not.

This feature is used to make code have the same video effects irrespective of the terminal it is run on. For example, it one particular type of terminal does not take a column to embed a video attribute and another does, the same code produces a different effect on the two terminals.

Enter Y if you want to force a video attribute to take the place of a (blank) column when the defined terminal would not.

Enter \mathbf{n} if you don't want to force video attributes to take up a column.

15 Endow vis. attr. with effects (Y/N)

Defines whether a non-displayed, forced column video attribute character takes the defined video attribute for itself or not.

This feature is used to specify, for example, whether an underlined word looks like <u>this</u> (video attribute endowed with effect) or if it looks like this (video attribute not endowed with effect).

Enter Y if you want to endow video attributes with video effects.

Enter n if you don't want to endow video attributes with video effects.

```
Field \#, <cr> for next page, "EX" to exit, "FI" to file changes, or "2":
```

To change a field, type its line number and press RETURN.

To move to Menu 2, press RETURN.

To exit Menu 1 and move back to the TDM menu, type Ex.

To file your changes to the table being edited, type FI.

To get online help documentation, type ? and press RETURN.

Menu 2

16 @(-1) Clear screen & home

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to clear the screen and position the cursor at the home position.

This information is used by the @(-1) function in DataBasic.

Examples for different terminals are provided in Appendix B.

17 @(-2) Cursor home

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to send the cursor to the home position.

This information is used by the @(-2) function in DataBasic.

Examples for different terminals are provided in Appendix B.

18 @(-3) Clear to end of screen

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to clear all lines up to the end of the screen.

This information is used by the @(-3) function in DataBasic.

Examples for different terminals are provided in Appendix B.

19 @(-4) Clear to end of line

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to clear to the end of the current line.

This information is used by the @(-4) function in DataBasic.

Examples for different terminals are provided in Appendix B.

20 @(-5) Start flashing

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to start flashing at the named position.

This information is used by the @(-5) function in DataBasic.

Examples for different terminals are provided in Appendix B.

21 @(-5) Stop flashing

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to stop flashing at the named position.

This information is used by the @(-6) function in DataBasic.

Examples for different terminals are provided in Appendix B.

22 @(-7) Start Protect

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate that the text string that follows is protected from user input.

Fields 22 and 23 are used to delimit a protected text string.

This information is used by the @(-7) function in DataBasic.

Examples for different terminals are provided in Appendix B.

23 @(-8) Stop Protect

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to terminate protection from user input.

Fields 22 and 23 are used to delimit a protected text string.

This information is used by the @(-8) function in DataBasic.

Examples for different terminals are provided in Appendix B.

24 @(-9) Cursor back

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to move the cursor back one space.

This information is used by the @(-9) function in DataBasic.

Examples for different terminals are provided in Appendix B.

25 @(-10) Cursor up

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to move the cursor up one line.

This information is used by the @(-10) function in DataBasic.

Examples for different terminals are provided in Appendix B.

26 @(-11) Cursor on

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to turn the cursor on.

This information is used by the @(-11) function in DataBasic.

Examples for different terminals are provided in Appendix B.

27 @(-12) Cursor off

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to turn the cursor off.

This information is used by the @(-12) function in DataBasic.

Examples for different terminals are provided in Appendix B.

28 @(-13) Begin status line

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate the beginning of the status line.

This information is used by the @(-13) function in DataBasic.

Examples for different terminals are provided in Appendix B.

29 @(-14) End status line

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate the end of the status line.

This information is used by the @(-14) function in DataBasic.

Examples for different terminals are provided in Appendix B.

30 @(-15) Cursor forward

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to move the cursor forward one space.

This information is used by the @(-15) function in DataBasic.

Examples for different terminals are provided in Appendix B.

```
Field #, <cr> for next page, "EX" to exit, "FI" to file changes, or "?":
```

To change a field, type its line number and press RETURN.

To return to Menu 1, type a line number from that menu and press RETURN.

To move to Menu 3, press RETURN.

To exit Menu 2 and move back to the TDM menu, type Ex.

To file your changes to the table being edited, type FI.

To get online help documentation, type ? and press RETURN.

Menu 3

31 @(-16) Cursor down

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to indicate to move the cursor down one line.

This information is used by the @(-16) function in DataBasic.

Examples for different terminals are provided in Appendix B.

32 @(-17) Enable slave port

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to enable a slave port.

This information is used by the @(-17) function in DataBasic.

Examples for different terminals are provided in Appendix B.

33 @(-18) Disable slave port

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to disable a slave port.

This information is used by the @(-18) function in DataBasic.

Examples for different terminals are provided in Appendix B.

34 @(-19) Screen dump

Enter the hexadecimal character sequence, decimal character representation, or ASCII character representation used by this terminal to dump a screen.

This information is used by the @(-19) function in DataBasic.

Examples for different terminals are provided in Appendix B.

```
Field \#, <cr> for next page, "EX" to exit, "FI" to file changes, or "2":
```

To change a field, type its line number and press RETURN.

To return to Menu 2, type a line number from that menu and press RETURN.

To return to Menu 1, press RETURN.

To exit Menu 3 and move back to the TDM menu, type Ex.

To file your changes to the table being edited, type FI.

To get online help documentation, type ? and press RETURN.

Appendix A Decimal, Hexadecimal and ASCII table

This appendix lists the hexadecimal and ASCII values and keys/effects corresponding to decimal numbers 0 to 127 and 251 to 255.

Note: Key shown is typical, but may vary with terminal type/configuration.

DE C	HE X	ASCII	KEY(S)	EFFECT
000	00	NUL	CTRL+@	
001	01	SOH	CTRL+A, HOME	
002	02	STX	CTRL+B	
003	03	ETX	CTRL+C	
004	04	EOT	CTRL+D	
005	05	ENQ	CTRL+E	
006	06	ACK	CTRL+F, \rightarrow	
007	07	BEL	CTRL+G	
800	80	BS	CTRL+H, BACKSPACE	
009	09	HT	CTRL+I, TAB	
010	0A	LF	CTRL+J, ↓	Line feed
011	0B	VT	CTRL+K	
012	0C	FF	CTRL+L, CLEAR	
013	0D	CR	CTRL+M, RETURN	
014	0E	SO	CTRL+N	
015	0F	SI	CTRL+O	
016	10	DLE	CTRL+P	
017	11	DC1	CTRL+Q	XON function
018	12	DC2	CTRL+R	Redisplay line
019	13	DC3	CTRL+S	XOFF function
020	14	DC4	CTRL+T	
021	15	NAK	$CTRL+U, \leftarrow$	
022	16	SYN	CTRL+V	
023	17	ETB	CTRL+W	
024	18	CAN	CTRL+X	Cancel line
025	19	EM	CTRL+Y, SHIFT+TAB	Disconnect
026	1A	SUB	CTRL+Z, ↑	

DE C	HE X	ASCII	KEY(S)	EFFECT
027	1B	ESC	ESC, CTRL+[
028	1C	FS		
029	1D	GS		
030	1E	RS		
031	1F	US		
032	20	SPAC E	SPACEBAR	
033	21	!	!	
034	22	"	"	
035	23	#	#	
036	24	\$	\$	
037	25	%	%	
038	26	&	&	
039	27	1	•	
040	28	((
041	29))	
042	2A	*	*	
043	2B	+	+	
044	2C	,	,	
045	2D	-	-	
046	2E			
047	2F	1	1	
048	30	0	0	
049	31	1	1	
050	32	2	2	
051	33	3	3	
052	34	4	4	
053	35	5	5	

DE C	HE X	ASCII	KEY(S)	EFFECT
054	36	6	6	
055	37	7	7	
056	38	8	8	
057	39	9	9	
058	3A	:	:	
059	3B	;	•	
060	3C	<	<	
061	3D	=	=	
062	3E	>	>	
063	3F	?	?	
064	40	@	@	
065	41	Α	Α	
066	42	В	В	
067	43	С	С	
068	44	D	D	
069	45	Е	E	
070	46	F	F	
071	47	G	G	
072	48	Н	Н	
073	49	1	1	
074	4A	J	J	
075	4B	K	K	
076	4C	L	L	
077	4D	М	M	
078	4E	N	N	
079	4F	0	0	
080	50	Р	Р	

DE C	HE X	ASCII	KEY(S)	EFFECT
081	51	Q	Q	_
082	52	R	R	
083	53	S	S	
084	54	Т	Т	
085	55	U	U	
086	56	V	V	
087	57	W	W	
880	58	Χ	X	
089	59	Υ	Υ	
090	5A	Z	Z	
091	5B	[[
092	5C	\	\	
093	5D]]	
094	5E	٨	٨	
095	5F	_	_	
096	60	'	1	
097	61	а	а	
098	62	b	b	
099	63	С	С	
100	64	d	d	
101	65	е	е	
102	66	f	f	
103	67	g	g	
104	68	h	h	
105	69	i	i	
106	6A	j	j	
107	6B	k	k	

DE C	HE X	ASCII	KEY(S)	EFFECT
108	6C	1	I	
109	6D	m	m	
110	6E	n	n	
111	6F	0	0	
112	70	p	p	
113	71	q	q	
114	72	r	r	
115	73	S	S	
116	74	t	t	
117	75	u	u	
118	76	V	V	
119	77	W	W	
120	78	Х	х	
121	79	у	у	
122	7A	Z	Z	
123	7B	{	{	
124	7C		1	
125	7D	}	}	
126	7E	~	~	
127	7F	DEL	DELETE	
251	FB	[SB: start buffer
252	FC	\	CTRL+\	SVM: subvalue mark
253	FD]	CTRL+]	VM: value mark
254	FE	٨	CTRL+^	AM: attribute mark

DE C	HE X	ASCII	KEY(S)	EFFECT
255	FF	_	CTRL+_	SM: segment mark

Appendix B Terminal Definition Examples

This appendix provides three terminal definition examples.

Example 1

```
1 TERMTYPE
2 Max column, Max row
                                                : 79,23
3 Cursor Address type (A,L,T,H,D,X)
4 @(C) cursor positioning
                                               : CHAR(16) C
                                              : CHAR(11) R CHAR(16) C
5 @(C,R) cursor positioning
6 Visual attributes definition (D)
7 "D" character for DIM attribute
                                              : D
                                              : HEX(81)
8 "D" character for FLASHING attribute : HEX(82)
9 "D" character for REVERSE attribute : HEX(84)
10 "D" character for BLANK attribute : HEX(88)
11 "D" character for UNDERLINE attribute : HEX(90)
12 Visual attributes 'off' definition : HEX(80)
13 Embedded visual attributes(Y/N)
                                              : YES
14 @(-1) Clear screen & home
                                              : F HEX (0C)
15 @(-2) Cursor home
                                              : HEX(01)
                                              : ESC'J'
16 @(-3) Clear to end of screen
                                              : ESC'K'
17 @(-4) Clear to end of line
                                              : HEX(82)
18 @(-5) Start flashing
                                              : HEX(80)
19 @(-6) Stop flashing
20 @(-7) Start protect
21 @(-8) Stop protect
22 @(-9) Cursor back
                                               : CTRL(U)
23 @(-10) Cursor up
                                                : CTRL(Z)
24 @(-11) Cursor on
                                               : HEX(E2)
25 @(-12) Cursor off
                                               : HEX(E4)
26 @(-13) Begin status line
                                               : HEX(E3)
27 @(-14) End status line
                                              : HEX(E5)
                                              : CHAR(6)
28 @(-15) Cursor forward
29 @(-16) Cursor down
                                               : LF
30 @(-17) Enable slave port
31 @(-18) Disable slave port
                                              : CHAR(18)
                                              : CHAR (20)
32 @(-19) Screen dump
                                              : CTRL(S)
```

Example 2

```
: 21
1 TERMTYPE
2 Max column, Max row
                                              : 80,24
3 Cursor Address type (A,L,T,H,D,X)
                                              : A
4 @(C) cursor positioning
                                              : CHAR(16) C
5 @(C,R) cursor positioning
                                             : CHAR(11) R CHAR(16) C
6 Visual attributes definition (D)
7 "D" character for DIM attribute
                                             : SO ESC '0' D
                                             : 'A'
8 "D" character for FLASHING attribute
                                             : 'B'
9 "D" character for REVERSE attribute
10 "D" character for BLANK attribute
                                             : 'P'
                                             : 'D'
11 "D" character for UNDERLINE attribute : HEX(60)
12 Visual attributes 'off' definition : SI
13 Embedded visual attributes(Y/N)
                                             : NO
14 @(-1) Clear screen & home
                                             : CHAR(12)
15 @(-2) Cursor home
                                             : SOH
16 @(-3) Clear to end of screen
                                             : ESC'k'
17 @(-4) Clear to end of line
                                             : ESC'K'
                                             : SO ESC 'OB'
18 @(-5) Start flashing
19 @(-6) Stop flashing
                                              : SI
20 @(-7) Start protect
21 @(-8) Stop protect
22 @(-9) Cursor back
                                              : NAK
23 @(-10) Cursor up
                                              : SUB
24 @(-11) Cursor on
25 @(-12) Cursor off
26 @(-13) Begin status line
27 @(-14) End status line
28 @(-15) Cursor forward
29 @(-16) Cursor down
30 @(-17) Enable slave port
31 @(-18) Disable slave port
                                              : ACK
                                              : CHAR(10)
                                             : ESC '3'
                                             : ESC '4'
32 @(-19) Screen dump
```

Example 3

```
1 TERMTYPE
                                            : 30
2 Max column, Max row
                                            : 80,24
3 Cursor Address type (A,L,T,H,D,X)
                                            : L
4 @(C) cursor positioning
                                           : CR STR(CTRL(L),C)
                                          : ESC '=' R C
5 @(C,R) cursor positioning
                                          : ESC 'G' D
6 Visual attributes definition (D)
7 "D" character for DIM attribute
8 "D" character for FLASHING attribute : '2'
9 "D" character for REVERSE attribute : '4'
10 "D" character for BLANK attribute
                                          : '1'
11 "D" character for UNDERLINE attribute : '8'
12 Visual attributes 'off' definition : ESC 'GO'
13 Embedded visual attributes(Y/N)
                                          : YES
14 @(-1) Clear screen & home
                                          : CTRL(Z)
                                          : CTRL(^)
15 @(-2) Cursor home
                                          : ESC'Y'
16 @(-3) Clear to end of screen
17 @(-4) Clear to end of line
                                          : ESC'T'
                                          : ESC'G2'
18 @(-5) Start flashing
                                          : ESC'G0'
19 @(-6) Stop flashing
20 @(-7) Start protect
21 @(-8) Stop protect
22 @(-9) Cursor back
                                           : CTRL(H)
                                           : CTRL(K)
23 @(-10) Cursor up
24 @(-11) Cursor on
                                           : ESC'.'
                                           : ESC'.'
25 @(-12) Cursor off
26 @(-13) Begin status line
27 @(-14) End status line
                                          : CTRL(L)
28 @(-15) Cursor forward
                                          : CTRL(J)
29 @(-16) Cursor down
30 @(-17) Enable slave port
31 @(-18) Disable slave port
                                          : ESC'@'
                                          : ESC'A'
32 @(-19) Screen dump
                                           : ESC'P'
```

Appendix C Column and Row Addresses

This appendix contains column and row addresses and associated characters for cursor addressing types A, L, T and H.

Column and Row Addresses for Cursor Addressing Types A, L, T and H.

Column ("C")	Row ("R)	ADDS col	ADDS row	LSI	TEC	Hazeltine
0	0	NUL	@	Blank	X'7F'	NUL
1	1	SOH	А	!	~	SOH
2	2	STX	В	"	}	STX
3	3	ETX	С	#	1	ETX
4	4	EOT	D	\$	{	EOT
5	5	ENQ	E	%	Z	ENQ
6	6	ACK	F	&	Υ	ACK
7	7	BEL	G	•	Х	BEL
8	8	BS	Н	(w	BS
9	9	HT	1)	V	HT
10	10	DLE	J	*	S	LF
11	11	DC1	K	+	Т	VT
12	12	DC2	L	•	s	FF
13	13	DC3	М	-	R	CR
14	14	DC4	N		Q	so
15	15	NAK	0	/	Р	SI
16	16	SYN	Р	0	0	DLE
17	17	ETB	Q	1	N	DC1
18	18	CAN	R	2	m	DC2
19	19	EM	s	3	L	DC3
20	20	blank	Т	4	K	DC4
21	21	!	U	5	J	NAK
22	22	"	V	6	1	SYN

Column ("C")	Row ("R)	ADDS col	ADDS row	LSI	TEC	Hazeltine
23	23	#	W	7	Н	ЕТВ
24		\$		8	G	CAN
25		%		9	F	EM
26		&		:	Е	SUB
27		•		;	D	ESC
28		(<	С	FS
29)		=	В	GS
30		0		>	Α	RS
31		1		?	•	US
32		2		@	_	blank
33		3		А	۸	!
34		4		В]	"
35		5		С	\	#
36		6		D	[\$
37		7		Е	Z	%
38		8		F	Υ	&
39		9		G	Х	1
40		@		Н	W	(
41		А		1	V)
42		В		J	U	*
43		С		К	Т	'+
44		D		L	S	1
45		Е		М	R	-
46		F		N	Q	
47		G		0	Р	1
48		Н		Р	0	0

Column ("C")	Row ("R)	ADDS col	ADDS row	LSI	TEC	Hazeltine
49		I		Q	N	1
50		Р		R	М	2
51		Q		S	L	3
52		R		Т	К	4
53		S		U	J	5
54		Т		V	1	6
55		U		W	Н	7
56		V		Х	G	8
57		W		Υ	F	9
58		Х		Z	E	:
59		Υ		[D	;
60		•		١	С	<
61		а]	В	=
62		b		٨	А	>
63		С		_	@	?
64		d			?	@
65		е		а	>	А
66		f		b	;	В
67		g		С	<	С
68		h		d	;	D
69		i		е	:	E
70		р		f	9	F
71		q		g	8	G
72		r		h	7	Н
73		s		i	6	J
74		t		j	5	К

Column ("C")	Row ("R)	ADDS col	ADDS row	LSI	TEC	Hazeltine
75		u		k	4	I
76		v		I	3	J
77		w		m	2	K
78		х		n	1	L
79		у		0	0	М

Appendix D Creating Additional Definition Fields for the TERMTYPE Menus

This appendix tells you how to create new definition fields for the TERMTYPE menus. This is useful if you are attempting to define your own special functions to be used in the DataBasic @(negative-number) commands.

The ELINE Editor

If you want to create your own definition fields, you should use the ELINE editor provided for this purpose on the SYSPROG account.

The ELINE commands are described in Appendix E, "Using the ELINE Editor to Create Additional Definition Fields for the TERMTYPE Menus".

Adding New Definition Fields

You can add extra definition fields to TERMTYPEs if you want to use the DataBasic @(negative-number) commands (-20 to -127) as they are defined in the DataBasic Programming Reference Manual.

Never change the first 13 definition fields. TDM expects them to be in a particular format, and if they are not, the results are unpredictable.

Definition Fields 14 to 32 shouldn't be altered either. If you change any of these fields, they are no longer compatible with the standard definitions.

New definition fields are added as items in DICT CURSOR-DEFS, and have the format described in the following table:

Attribute	Explanation
Item-id	Must be in the form LINEn, where n is the next available sequential number for the TERMTYPE.
1	The prompting text that displays on the screen.
2	The help text that displays on the screen when you press the ? key while editing a field.
	You can use up to three values to contain this text.
3	Optional multivalued DataBasic format MATCH strings to be applied to input after Reality applies the conversion defined in attribute five of this item.
4	Optional special function definition characters:
	L allows a leading L in the specification for line feed delays
	F allows a leading F in the specification for form feed delays
	Q indicates a required input field
5	Defines an optional conversion code to be performed on any input before other checks are made.

Appendix E Using the ELINE Editor to Create Additional Definition Fields

ELINE is a line editor used to create additional definition fields for TERMTYPE menus.

Appendix D, "Creating Additional Definition Fields for the TERMTYPE Menus", describes the restrictions of creating new definition fields. This appendix describes the editor used to create those new fields.

ELINE Editor Commands

Command	Explanation
TAB CTRL+I	Word forward.
BACK TAB CTRL+Y SHIFT+TAB	Word back.
CTRL+E	Move cursor to end of field.
CTRL+B	Move cursor to beginning of field.
<u>SHIFT+4</u> CTRL+U LEFT ARROW	Cursor left.
<u>SHIFT+6</u> CTRL+F RIGHT ARROW	Cursor right.
CTRL+?	Insert characters.
ESC ESCAPE	Exit insert mode.
CTRL+D	Delete character.
CTRL+W	Delete word.
CTRL+X	Clear line from the cursor to the end of the line.
CTRL+C	Cut. (See "Cutting and Pasting with ELINE")
CTRL+P	Paste (See "Cutting and Pasting with ELINE")
DEL DELETE+HOME	Cancel last change.

Command keystrokes that are underlined are only valid on Prism IV terminal keyboards.

Command keystrokes that are bold are only valid on Prism 7/8/9 terminal keyboards.

All other keystrokes are valid for both terminal types.

Cutting and Pasting with ELINE

To cut a section of text, move the cursor to the beginning of the section to be cut. Press CTRL+C. Move the cursor to the end of the section to be cut. Press CTRL+C again.

To paste the section of text just cut, move the cursor to the place you want to insert the text, then press CTRL+P.