

Laser-Scan Ltd.

DTMCREATE

VAXstation (UIS/Motif) Workstation Guide

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## 1 Introduction

This document describes the workstation dependent facilities available when operating DTMCREATE on Digital VAXstation workstations. It is to be read as a supplement to the DTMCREATE Reference Manual and in particular Appendix A of that manual.

## 2 Display

A single graphics display is supported, this may have either 4 or 8 planes.

It is normal to login on the VAXstation by creating a new VT220 window, but a second terminal can be used, in order to avoid having the alphanumeric window and the graphics window on the same screen.

## 3 Shareable Images

All DTMCREATE utilities now use a shareable image pointed to by the logical LSL\$DTM\_GHSSHR. This is defined by DTMCREATEINI to point to an image appropriate to the graphics device being used. The new DTMCREATE images are LSL\$EXE:DTM\_GKSMOTIFSHR.EXE for MOTIF, LSL\$EXE:DTM\_GKSUISSHR.EXE for UIS and LSL\$EXE:DTM\_GKSNULSHR.EXE for a non-graphical device.

## 4 Interactive devices

In addition to the login keyboard, DTMCREATE module TRIEDIT is capable of interpreting commands from a digitising table on a separate terminal line, or the VAXstation mouse.

### 4.1 Digitising table

The digitising table input is interpreted by DTMCREATE module TRIEDIT using the Table Monitor system.

To use the Table Monitor, a table monitor process must be started, using program STARTMON. If the 'named monitor' option is used, then logical name LSL\$MONITOR\_TABLE must point to the serial line. In addition, if the table is anything other than a standard ALTEK, then logical table LSL\$TABMON\_ROUTINE (or LSL\$TABMON\_ROUTINE\_<terminal> for named monitor) must point to a suitable decoding shareable image. This logical name must be available to the table monitor process, and so should be in the group or system logical name table.

### 4.2 Graphics Interaction

The DTMCREATE Reference Manual assumes by default that the user is logged onto a VAXstation. It is assumed that when running module TRIEDIT, GIN (Graphics Interaction) is via the VAXstation mouse or bitpad. The DTMCREATE Reference

Manual refers to GIN button presses in terms of "left", "middle" and "right" buttons, for "point", "master point" and "end" respectively.

### 4.3 Keyboard

If a VAXstation VT220 window is used as the login terminal, keyboard input is taken from the VAXstation keyboard. If a separate VT100 (or equivalent) terminal is used as the login terminal, keyboard input is expected from that keyboard.

## 5 DTMCREATE graphics lookup file setup

DTMCREATE module graphics options are controlled by three lookup files which are accessed via logical name LSL\$LOOKUP: The files are CONFIGURE.DAT, CONFIGDEF.DAT and TERMTYPE.DAT. For details of the purpose and content of these files see Appendix A to the DTMCREATE Reference Manual.

The lookup file TERMTYPE.DAT contains the graphics device definition for each terminal line and is referenced by DTMCREATE modules TRIANG, TRIDER and TRIGRID. The following entries are required to enable use of TRIANG, TRIDER and TRIGRID on a VAXstation if a VT220 window is used as the login device:

WTA1:	GPX
WTA2:	GPX
WTA3:	GPX
WTA4:	GPX
WTA5:	GPX
WTA6:	GPX
WTA7:	GPX
WTA8:	GPX

If a separate terminal is used as the login device, for example TTB3: then the following typical entry is needed:

TTB3: GPX

DTMCREATE module TRIEDIT uses a lookup file, LSL\$LOOKUP:CONFIGDEF.DAT, to select and initialise the default hardware configuration for your particular terminal line at your site. Alternatively you may specify on the startup command line the hardware options that you wish to use, or select hardware options (but not graphic screen type) while you are running the program by using the ENABLE command. If you choose to select your own hardware options TRIEDIT checks in another site dependent lookup file, LSL\$LOOKUP:CONFIGURE.DAT, that the desired options are available (and are in a valid combination) and then initialises the devices accordingly.

Valid entries in either of the TRIEDIT graphics lookup files, for use when the login device is a VAXstation VT220 window are:

WTA1:	GPX MOUSE
WTA2:	GPX MOUSE
WTA3:	GPX MOUSE
WTA4:	GPX MOUSE

```
WTA5:      GPX MOUSE
WTA6:      GPX MOUSE
WTA7:      GPX MOUSE
WTA8:      GPX MOUSE
```

or:

```
WTA1:      GPX TABLE
WTA2:      GPX TABLE
WTA3:      GPX TABLE
WTA4:      GPX TABLE
WTA5:      GPX TABLE
WTA6:      GPX TABLE
WTA7:      GPX TABLE
WTA8:      GPX TABLE
```

Additional entries must be made if additional terminal lines are to be used for the login device, for example:

```
TTB3:      GPX TABLE
```

Note that for TRIEDIT graphical interaction MOUSE and TABLE are mutually exclusive. No other GIN (Graphics INteraction) options are allowed e.g. TRACKERBALL or THUMBWHEELS.