

# SAGA\_VIDEO\_CLUT registers



## Overview

Change the current palette of the SAGA 8-bits Video Mode.

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## Name

- SAGA\_VIDEO\_CLUT

## Address

- From 0xDFF400 To 0xDFF7FC

## Access

- Write-Only

## Size

- 32-bits
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## Description

256-color lookup table for use with the 8-bits Chunky video mode.

Each color is 32-bits long, in the ARGB (- | R8 | G8 | B8) format.

See the [SAGA\\_VIDEO\\_MODE](#) register and the SAGA\_VIDEO\_FORMAT\_CLUT8 mode.

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## Examples

Set the first 4 colors, using direct addresses:

```
MOVE.L  #$0000FF,$DFF400 ; Set Color #001
MOVE.L  #$0006FF,$DFF404 ; Set Color #002
MOVE.L  #$000CFF,$DFF408 ; Set Color #003
MOVE.L  #$0012FF,$DFF40C ; Set Color #004
```

Set the first 4 colors, using the base address:

```
MOVE.L  #$0000FF,$DFF400+(0*4) ; Set Color #001
MOVE.L  #$0006FF,$DFF400+(1*4) ; Set Color #002
MOVE.L  #$000CFF,$DFF400+(2*4) ; Set Color #003
MOVE.L  #$0012FF,$DFF400+(3*4) ; Set Color #004
```

Load a full palette from DATA:

```
SAGA_VIDEO_CLUT EQU $DFF400 ;

Main:
  LEA    Palette,a0          ; Load Palette
  MOVE.L #SAGA_VIDEO_CLUT,a1 ; CLUT register base
  MOVEQ.L #256-1,d7          ; 256 colors
.loop  ; For each color
  MOVE.L (a0)+,(a1)+        ; Write color in register
  DBF    d7,.loop           ; Next
  RTS
  EVEN
Palette:
  DC.L
  $FF0000FF,$FF0006FF,$FF000CFF,$FF0012FF,$FF0018FF,$FF001EFF,$FF0024FF,$FF002
  AFF
  DC.L
  $FF0030FF,$FF0036FF,$FF003CFF,$FF0042FF,$FF0048FF,$FF004EFF,$FF0054FF,$FF005
  AFF
  DC.L
  $FF0060FF,$FF0066FF,$FF006CFF,$FF0072FF,$FF0078FF,$FF007EFF,$FF0084FF,$FF008
  AFF
  DC.L
  $FF0090FF,$FF0096FF,$FF009CFF,$FF00A2FF,$FF00A8FF,$FF00AEFF,$FF00B4FF,$FF00B
  AFF
  DC.L
  $FF00C0FF,$FF00C6FF,$FF00CCFF,$FF00D2FF,$FF00D8FF,$FF00DEFF,$FF00E4FF,$FF00E
  AFF
  DC.L
  $FF00F0FF,$FF00F6FF,$FF00FCFF,$FF00FFF9,$FF00FFF3,$FF00FFED,$FF00FFE7,$FF00F
  FE1
  DC.L
```

\$FF00FFDB, \$FF00FFD5, \$FF00FFCF, \$FF00FFC9, \$FF00FFC3, \$FF00FFBD, \$FF00FFB7, \$FF00FFB1  
DC.L  
\$FF00FFAB, \$FF00FFA5, \$FF00FF9F, \$FF00FF99, \$FF00FF93, \$FF00FF8D, \$FF00FF87, \$FF00FF81  
DC.L  
\$FF00FF7B, \$FF00FF75, \$FF00FF6F, \$FF00FF69, \$FF00FF63, \$FF00FF5D, \$FF00FF57, \$FF00FF51  
DC.L  
\$FF00FF4B, \$FF00FF45, \$FF00FF3F, \$FF00FF39, \$FF00FF33, \$FF00FF2D, \$FF00FF27, \$FF00FF21  
DC.L  
\$FF00FF1B, \$FF00FF15, \$FF00FF0F, \$FF00FF09, \$FF00FF03, \$FF06FF00, \$FF0CFF00, \$FF12FF00  
DC.L  
\$FF18FF00, \$FF1EFF00, \$FF24FF00, \$FF2AFF00, \$FF30FF00, \$FF36FF00, \$FF3CFF00, \$FF42FF00  
DC.L  
\$FF48FF00, \$FF4EFF00, \$FF54FF00, \$FF5AFF00, \$FF60FF00, \$FF66FF00, \$FF6CFF00, \$FF72FF00  
DC.L  
\$FF78FF00, \$FF7EFF00, \$FF84FF00, \$FF8AFF00, \$FF90FF00, \$FF96FF00, \$FF9CFF00, \$FFA2FF00  
DC.L  
\$FFA8FF00, \$FFAEFF00, \$FFB4FF00, \$FFBAFF00, \$FFC0FF00, \$FFC6FF00, \$FFCCFF00, \$FFD2FF00  
DC.L  
\$FFD8FF00, \$FFDEFF00, \$FFE4FF00, \$FFE AFF00, \$FFF0FF00, \$FFF6FF00, \$FFF CFF00, \$FFFF900  
DC.L  
\$FFFF300, \$FFFFED00, \$FFFFE700, \$FFFFE100, \$FFFFDB00, \$FFFFD500, \$FFFFCF00, \$FFFFC900  
DC.L  
\$FFFFC300, \$FFFFBD00, \$FFFFB700, \$FFFFB100, \$FFFFAB00, \$FFFFA500, \$FFFF9F00, \$FFFF9900  
DC.L  
\$FFFF9300, \$FFFF8D00, \$FFFF8700, \$FFFF8100, \$FFFF7B00, \$FFFF7500, \$FFFF6F00, \$FFFF6900  
DC.L  
\$FFFF6300, \$FFFF5D00, \$FFFF5700, \$FFFF5100, \$FFFF4B00, \$FFFF4500, \$FFFF3F00, \$FFFF3900  
DC.L  
\$FFFF3300, \$FFFF2D00, \$FFFF2700, \$FFFF2100, \$FFFF1B00, \$FFFF1500, \$FFFF0F00, \$FFFF0900  
DC.L  
\$FFFF0300, \$FFFF0006, \$FFFF000C, \$FFFF0012, \$FFFF0018, \$FFFF001E, \$FFFF0024, \$FFFF002A  
DC.L  
\$FFFF0030, \$FFFF0036, \$FFFF003C, \$FFFF0042, \$FFFF0048, \$FFFF004E, \$FFFF0054, \$FFFF005A  
DC.L

```
$FFFF0060, $FFFF0066, $FFFF006C, $FFFF0072, $FFFF0078, $FFFF007E, $FFFF0084, $FFFF008A
DC.L
$FFFF0090, $FFFF0096, $FFFF009C, $FFFF00A2, $FFFF00A8, $FFFF00AE, $FFFF00B4, $FFFF00BA
DC.L
$FFFF00C0, $FFFF00C6, $FFFF00CC, $FFFF00D2, $FFFF00D8, $FFFF00DE, $FFFF00E4, $FFFF00EA
DC.L
$FFFF00F0, $FFFF00F6, $FFFF00FC, $FFF900FF, $FFF300FF, $FFED00FF, $FFE700FF, $FFE100FF
DC.L
$FFDB00FF, $FFD500FF, $FFCF00FF, $FFC900FF, $FFC300FF, $FFBD00FF, $FFB700FF, $FFB100FF
DC.L
$FFAB00FF, $FFA500FF, $FF9F00FF, $FF9900FF, $FF9300FF, $FF8D00FF, $FF8700FF, $FF8100FF
DC.L
$FF7B00FF, $FF7500FF, $FF6F00FF, $FF6900FF, $FF6300FF, $FF5D00FF, $FF5700FF, $FF5100FF
DC.L
$FF4B00FF, $FF4500FF, $FF3F00FF, $FF3900FF, $FF3300FF, $FF2D00FF, $FF2700FF, $FF2100FF
DC.L
$FF1B00FF, $FF1500FF, $FF0F00FF, $FF0900FF, $FF0300FF, $FFFFFFFF, $FFFFFFFF, $FFFFFFF
END
```

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