

# SAGA\_VIDEO\_VTOTAL register



## Overview

Change the current SAGA Video [ModeLine](#) **VTOTAL** attribute.

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## Name

- SAGA\_VIDEO\_VTOTAL

## Address

- 0xDFF30E

## Access

- Write-Only

## Size

- 16-bits
- 

## Description

See [ModeLine](#) for more information.

Property	Short	Description
VPIXEL	Height	Number of vertical pixels drawn to the visible part of the screen.
VSSTRT-VPIXEL	Front Porch	Amount of black pixels drawn on the bottom of the screen.
VSSTOP-VSSTRT	Vertical Sync	Amount of time it takes to move back up to the first line of the screen.
VTOTAL-VSSTOP	Back Porch	Amount of black pixels drawn to the top of the screen.

## Example

The following ASM snippet shows how to fully set a valid [ModeLine](#).

```
MAIN:
    lea    MyModeLine,a0    ; Load MyModeLine in A0
    move.w (a0)+,$dff300    ; SAGA_VIDEO_HPIXEL
    move.w (a0)+,$dff302    ; SAGA_VIDEO_HSSTRT
    move.w (a0)+,$dff304    ; SAGA_VIDEO_HSSTOP
    move.w (a0)+,$dff306    ; SAGA_VIDEO_HTOTAL
    move.w (a0)+,$dff308    ; SAGA_VIDEO_VPIXEL
    move.w (a0)+,$dff30A    ; SAGA_VIDEO_VSSTRT
    move.w (a0)+,$dff30C    ; SAGA_VIDEO_VSSTOP
    move.w (a0)+,$dff30E    ; SAGA_VIDEO_VTOTAL
    move.w (a0)+,$dff310    ; SAGA_VIDEO_HVSYNC
    rts

MyModeLine:
    dc.w 800,832,912,1024,600,604,608,625,1 ; "800x600@60" 38.400000
```

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