

**EGSA2410Driver**

<b>COLLABORATORS</b>
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	<i>TITLE :</i> EGSA2410Driver		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		July 20, 2024	

<b>REVISION HISTORY</b>
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NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# EGSA2410Driver

### 1.1 EGSA2410Driver

EGSA2410Driver  
The EGS Driver for the A2410 Graphics Card  
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Copyright	Legal Stuff
HTML	What is the Hyperdoc, what about Mosaic
Installation	How get it work
About EGS	What is EGS
Registration	How to register
Thanx	
History	When,Where,What
Thoughts	What's to come
Author	How to reach me

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### 1.2 copyright

COPYRIGHT  
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EGSA2410Driver and A2410Prefs (c)Copyright 1994/95 Jürgen Schober

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EGS is (c)Copyright 1990-94 Viona Development !

Installer and Installer project icon

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MUI - MagicUserInterface

(c) Copyright 1993/94 by Stefan Stuntz

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## 1.3 mosaic

Documentation :

-----

HTML is a hypertext system similar to the AmigaGuide format but also includes the possibility to use inline images. It is used by WWW (World Wide Web) browsers like Mosaic or NetScape.

The documentation is included in HTML format, too. You can use AMosaic to display these pages. AMosaic can be found on aminet. There exists different Versions for Ami/TCP, Envoy and also a NoNet Version which does not require a network. AMosaic should run on OS 2.x systems but requires OS 3.x and the Datatypes to display inline images (gif is used for this purpose...).

## 1.4 install

## Installation

-----

Before you install the EGSA2410Driver you should make sure you have an working EGS system installed.  
Please use the Installer to install the EGSA2410Driver or copy the EGSA2410Driver to your EGS:Startup/ drawer (NOT WBStartup !) and the EGSA2410Prefs to EGS:Prefs/ or Sys:Prefs/. If you have a working EGS system you should also have a logical device called EGS: .  
Before you run the EGSA2410Driver you MUST run the EGSA2410Prefs first. It sets the path where the driver can find the loadtiga and also defines some startup things.

The EGSA2410Prefs does either run under native EGS or uses MUI.  
You can run it from CLI or from the Workbench. To use MUI type "EGSA2410Prefs MUI" (default) or type "EGSA2410Prefs EGS" to run it on an EGS screen.

If run from the Workbench you can set the tooltypes to

GUI=MUI to use MUI or

GUI=EGS to use EGS.

If you do not have MUI it is important that your EGS System is installed correctly ! The Installer starts the Prefs on installation ! You MUST run EGSA2410Prefs before you can use the EGSA2410Driver ! It makes some setups for the driver which are essential to make it run !

## IMPORTANT :

-----

Please add the line "Wait 4 secs" to your devs:monitors/EGS file ! This makes sure the driver is up and running when EGSWB (the Intuition driver for EGS) is executed (timing is for my 25 MHz A3000. It could be less on faster machines, I guess...).

...

; Search for programs which should be started befor EGS-Config is called  
IF EXISTS EGS:Startup

List >NIL: EGS:Startup/~(#?.info) TO T:Startup LFORMAT "c:run >nil: EGS: ↵  
Startup/%s"

Execute T:Startup

; add this line here :

Wait 4 secs

; -----

Delete >NIL: T:Startup

EndIF

...

Files needed/usefull to run the Driver

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Also patchdt (also on aminet) is strongly recommended !  
patchdt speeds things up a lot if you use background pattern.

It also requires the <A2410.device> and <loadtiga>.

## 1.5 egs

The Enhanced Graphics System (EGS)

-----

Files needed :

The EGSA2410Driver requires a working EGS (6.x,7.x) installation !  
You can find the whole EGS archive via ftp on

[ftp://orion.etsu.edu/pub/egs/updates/\\*](ftp://orion.etsu.edu/pub/egs/updates/*)

or

[ftp://ftp.tu-graz.ac.at/pub/Binaries/Amiga/\\*](ftp://ftp.tu-graz.ac.at/pub/Binaries/Amiga/*)

I recommend the Spectrum Version (disk 1-5, 6.2) and  
an update to 7.0 !

Some v7.0 installation disks are also available on

[ftp://ftp.tu-graz.ac.at/incoming/ppoint/  
egs\\_disk1.lha  
egs\\_disk2.lha](ftp://ftp.tu-graz.ac.at/incoming/ppoint/egs_disk1.lha)

These disks include all files you need to run EGS System 7.  
No 6.2 Disks are required any more !  
(I also uploaded them to the aminet but I'm not sure  
if they are really available)

EGS Basics

The whole EGS is started up with a monitor(script)file  
stored in devs:Monitors. If I remember correctly, this  
file is not copied by the Spectrum installation.  
You can copy this file after you installed EGS 6.2  
from EGS:Storage/Monitors/EGS to devs:monitors.  
If you use my 7.0 installation this file is copied by the  
installer but you MUST set the "s"-bit (lha clears this bit).  
Klick the EGS-Icon, press <right-Amiga><i> and activate  
the "Script" Gadget.

The EGS is configured through "drivers" which are all  
stored in the EGS:Config/ drawer. You should have  
a Border/ , Driver/ and Special/ directory there.  
egs:c/egsconfig is used to hook exetensions as  
"ROMTags" into the system. Every driver is some  
kind of extension to EGS.

---

## EGS-Border

Border/ is used to configure a multiboard intallation. EGS can handle more than one board in the Amiga. It is then possible to drag the Mouse from one Screen to another. The files in this drawer are used to define where the screens stick together. It is now possible to use multible boards like a "video wall" if you have more than one monitor. While you can move windows from one screen to the other under native EGS this is not possible for Intuition. You can only drag the mouse here !

Borders are configured through the Tooltypes or with a script file. It looks like this :

```
AddBorder A2410.monitor AMIGA.monitor Right
```

where A2410.monitor is a shortcut which is used by the videomultiplexer (...). "A2410.monitor" is hard coded into the EGSA2410Driver, normaly it is defined by the MountXYZDriver (see below). The direction used is defined by the keyword "Right", "Left", "Top" or "Bottom". It tells egsconfig where the next board can be found.

## EGS-Driver

This is the directory which installs the low level graphics code. The drivers are NOT in here. They can be found in EGS:Driver/#? . You can leave Icons here which uses tooltypes or scripts to activate the driver you need or want to use. Drivers are activated using "MountXYZDriver" where it holds the following lines as a script (e.g. for the Native ECS/AGA driver) :

```
;
; $VER: MountAmigaDriver 1.0 (05.02.1994) by MvK
;
; Configuration script for the EGS-AMIGA
;
; Load EGS-AMIGA driver (Icon Info)
LOAD EGS:driver/EGSAmigaDriver
; Add the AMIGA monitor, define a shortcut here (mentioned above)
MONITOR AMIGA.monitor
; Link the amiga output to the AMIGA Montior
LINK AmigaNative.map2video AMIGA.monitor
```

If you look into the tooltypes you will find these keywords there, too.

The EGSA2410Driver does not use this mechanism. The different codes (EGS is written in Cluster, the A2410 uses C) forced me to build "egsconfig" into the driver (sort of). So it acts in some kind as stand a alone driver.

## EGS-Special

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This is used to install stuff not falling into one of the two groups mentioned above. The EGSWB (the Intuition emulation) and the NightShift (EGS Blanker) use this directory.

Something Special for the A2410 Driver

If you use a foreign installation (e.g. Spectrum) for the A2410 driver you should move the files from egs:config/driver/MountLegsXXDriver to egs:storage/driver else you would get Errors like "No Legs installed" (of course if you have no Spectrum boards in your machine only !). Leave the MountAmigaDriver in the egs:config/driver drawer. It is used to make the native Amiga modes available for EGS !

## 1.6 register

please use the following text to register to the latest Version of the EGSA2410Driver :

----- snip ----- snip -----

Registration for the EGSA2410Driver  
=====

to  
Jürgen Schober  
Muchargasse 35/1/4  
  
A-8010 Graz  
  
Austria/Europe

O Ja, Ich möchte die aktuellste Version des EGSA2410Driver registrieren. Ich habe das Copyright und die Einschränkungen (Disclaimer) gelesen und akzeptiere diese.

O Yes, I want to get the latest release of the EGSA2410Driver.  
I have read the Copyright and Disclaimer and confirm with these.

Please send the latest Release to :

Name :  
  
Str :  
  
Code :  
  
City :

Country :

e-mail :

- O I live outside Europe, and will pay
- O US\$ 25,-
  - O ATS 250,-
  - O DM 35,-
- O I pay with a bank cheque and add
- O US\$ 12,-
  - O ATS 120,- to the above
- (sorry, I know that's expensive)
- O I live in Europe and pay
- O US\$ 20,-
  - O ATS 200,-
  - O DM 30,-
- O I pay with eurocheque and add
- O US\$ 12,-
  - O ATS 120,-
  - O DM 20,- to the above.
- (sorry, this is really what I pay for it !)
- O Ich komme aus Österreich
- O Ich habe am \_\_.\_\_.199\_\_ öS 200,- auf Dein Konto,  
KontoNr. 10827155200  
BLZ 11870  
Creditanstalt Graz, mit dem Verwendungszweck  
"Registration A2410" überwiesen.
- O I also need the EGS System. I want to get EGS System 7.1  
on 4 Disk and add
- O US\$ 2,-
  - O ATS 20,-
  - O DM 3,- to the above.
- (EGS is (c)Viona Development !)

Date :\_\_\_\_\_

Sign :\_\_\_\_\_

\_\_\_\_\_  
Comments, Hints, Bugreports :

## 1.7 thanx

\* Special Thanks to Uli Siegmund.

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Without him the driver wouldn't have been possible !

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## 1.8 history

History :

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V1.14, Release 8 :

- \* Added a new Mode to the Prefs (MODE\_736x480\_NI).  
Please also check new cheque conditions !

V1.13, no public release :

- \* Minor Changes, added an AmigaGuide document.

V1.12, Release 7 :

- \* It is now possible to open more then one screen at the  
same time (e.g. Workbench AND an EGS-Screen on the 2410).

V1.11, Release 6 :

- \* Fixed ListView bug (eg. ASL-Requesters),  
Also textmarking with CED now works  
Drawer shows text when in "Show by Name" mode.
- \* Fixed a RectFill bug. Con-Windows left cursors while  
drawing text into inactive windows. This is fixed.
- \* Locale Prefs has still a bug when selecting a time zone.

V1.1, no public release :

- \* change the way colorregisters are set. Speeds up  
things a lot while color remapping. (e.g. MultiView, XVAmiga, ...)

V1.0a, Release 5 :

- \* no update, just fixed a bug in my register.txt  
(US\$ 25,- instead 35,- for the Rest of the World)

V1.0, Release 4 :

- \* The BitBlt() works now.
  - \* Plane-2-Chunky now uses BitBlt() and because of that  
it supports miniterms now.
  - \* Added FillMaskPatt(). Is essential for PageStream !  
and RectFillMPatt().
  - \* Added a "Registration" requester. It pops up every 5 minutes.
-

## V0.9a, Release 3 :

- \* Minor Change in the BitBlt() routine.
- \* Removed the plane-2-chunky blitting. Icon Images etc. are NOT drawn !
- \* Fixed some stuff in FillMask() (Text functions now work)
- \* The NOT DST operator in the DrawLine() fixed (was the RectFill(!))

## V0.9, Release 2 :

- \* fixed ZoomFrom24()
- \* BitBlt() is built into the driver and supports miniterms
- \* Some changes in the Mouseimage routine,  
64/2 and 16x2 imagesupport is not necessary.
- \* Mousedriver now uses standard EGS Server
- \* A2410 Mouse Bug is still there ...
- \* Blitting from Planes to Chunky does not support Miniterms
- \* Fixed a minor bug in the WritePixel() routine, including dithering  
(Multifractals now works perfectly =:-)
- \* Dithering for Bitlevel routines missing
- \* no libcode yet
- \* found a bug in the line routine (drawing inverted lines...)
- \* I found, that I got a (tiga)memory overflow under Intuition  
while using 1024x1024 res. Seems to be a problem of my plane-2-chunky  
routine ...(this does not happen under EGS ... no plane modes ...)

## V0.8, Release 1 :

- \* Bugfixes in ZoomFrom24() und BitBlt()  
BitBlt() is used for Amiga style blitting. It is disabled in V0.8.  
ZoomFrom24() does only zoom into an image, zooming out (<1) does not work ←  
!
  - \* Mouseimage support for 64/2 and 16\*2 Pointer,  
The mouse cursor must be a 32x32 Image (see EGS-Mouse Prefernces!)
  - \* Mousebug if Image (32x32) moves out of the screen !  
(A2410 problem !)
  - \* Miniterms are not supported right now.
  - \* Dithering on area operations is missing !
  - \* FillMask does not have a pattern.
-

```
*   use Libcode

*   make the Mouse working under normal conditions !!
```

## 1.9 future

Future thoughts :

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Sometimes (I hope soon) there will be an Driver Development Kit (EGS-DDK) on aminet. It includes sources how to build an EGS driver. It will include both C and Cluster sources. I also think to release an example code for the Picasso board. I had one but lost this stuff :-(. A new one does almost work now. A prerelease is available on demand !  
(So if you want to write a driver for your board... go and send me an e-mail).  
It will take some time 'till I have this archive ready. Keep on waiting ! (Well the Picasso stuff shows how to use the vilintuisup.libray ...I guess it would also run on every CyberGraphics system =:-)  
Some point to mention. If a Picasso WB-Emulation is used the EGSWB can NOT be used ! The Picasso Driver hacks into the BitMap structur and changes some native Amiga Bitmaps into chunky maps, which EGS can not handle ! (But who does need this on Cyber systems anyway ..)

## 1.10 author

Author

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If you have something to tell or you want to register  
you can reach me here :

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Austria/Europe

voice : (++)43 - 316 - 674383  
          (private phone, please check out the timezone !)  
e-mail : point@sbox.tu-graz.ac.at  
          (f9031304@mbbox.tu-graz.ac.at)

## 1.11 supportfiles

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#### Required Files

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"loadtiga" and the "a2410.device" (latest Version is v1.9) are required to get the A2410 going. It should be available for A2410 owner. It was part of the Orlando DevCon disks. If you do not have it, send me an e-mail. I think we can solve this problem.