

SuperView-Library

COLLABORATORS

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REVISION HISTORY

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Chapter 1

SuperView-Library

1.1 SuperView Library Documentation

superview.library V22.2

- Freeware (Licenseware) -
product-specific Licenseware

Any usage from and by other programs without an
explicit license is strictly forbidden (see "Distribution").
Ask for licenses.

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A PerSuaSiVe SoftWorX PRODUCT.

This program has been written under OS V3.1 and is therefore
fully compatible. It needs OS V2.04+.

Actively supports PowerPC (TM) via powerUP (TM)
and ppc.library.

Release Date: 20.02.1999

If you at first don't succeed, call it a public beta version...

Legal

Copyrights and legal stuff

Disclaimer

Distribution

Usage

Short: Purpose and Abilities

Requirements

Installation

68020-060/PPC support

Making use of fast CPUs
 PowerPC (powerUP) support

What can be expected ?
 Contact

How to contact the author
 Archive

History

SVObject Descriptions/History

Device SVObject Descriptions/History

SVDriver Descriptions/History

SVOperator Descriptions/History

Support-Library Description/History
 Various Topics

Supporting Software

Known bugs and workarounds

Notes and Hints

Possible future enhancements ...

Credits and even more legal stuff

Thanks and Greetings

SuperView in the Press

Bibliography

More Projects
 ControlPad Preferences

Preferences

ControlPad Fileformat

CPInfo Fileformat

ControlPad enlistment
 External Links in this Directory
 German ReadMe File

 _ //
 Only \X/ Amiga makes it possible!

Please visit:

SuperView WWW Sites
http://home.t-online.de/home/Andreas_Kleinert/
<http://wdo.de/ark/>

Simon Edward's Image Engineer WWW Site
<http://www.amigaworld.com/support/imageengineer/>
(Image Processing program produced by Simon Edwards)

Die CHAOS-Theorie:

"Dabei geht es zum Beispiel darum, den verdammten Schmetterling zu finden, dessen Flügelschläge die vielen Stürme in letzter Zeit verursacht haben." (Terry Pratchett in "Total verhext")

In English means something like:


The CHAOS theory:

"Like finding that bloody butterfly whose flapping wings cause all these storms we've been having lately and getting it to stop." (see "Witches Abroad" by Terry Pratchett)

Ahm...well:

...and thanks for all the fish.

1.2 Copyright

The superview.library and the distributed files - e.g. the  documentation files - are (C)opyright 1993-99 by Andreas R. Kleinert. All rights reserved.

(For some files there may additional or substitutive Copyrights take place, which then are stated locally within the documentation or via local reference to "Credits".)

The following usage and license conditions are announced for all parts of the distribution, which means SVOjects, SVDrivers, SVOperators and all other files.

When referring to the whole program package as such, it is called "SuperView-Library".

The usage and distribution of SuperView-Library takes place under the concept of product-specific Freeware (Licenseware).

For more details on distribution rules and developers restrictions, you have to see paragraph "Distribution".

Please note:

- * Should any of the listed terms and clauses within this document not be valid in conjunction with the law of certain countries this does not affect the validity of the other clauses.
- * Some of the mentioned names or products within this or other documents may be copyrighted by companies or trademarks of companies or persons.
- * This software is based in part on the work of the Independent JPEG Group (concerning JPEG.svobject).
- * The "xpkmaster.library" (part of the useful Xpk package, which can be found on Aminet) is developed under the concept of the GNU license by its authors, c/o Dirk Stöcker <stoecker@rcs.urz.tu-dresden.de> This freely distributable Library is needed by SVG.svobject, Unpack.svobject and and RGFY.svobject to read and decode XPK-packed files.
- * The "newicons.library" (part of the useful NewIcons package, which can be found on Aminet) is developed by the 'Team NewIcons', c/o Eric Sauvageau <merlin@thule.no> and Phil Vedovatti <vedovatt@u.washington.edu> This library is needed by AmiIcon.svobject to read/write NewIcons.

GIF is obsolete - you neither should use nor support it any longer. If you are doing WWW design, use PNG and JPEG instead. It's important !

This software was translated with the help of ATO, the Amiga Translators' Organization. ATO is a non-profit organization that translates for the Amiga community!

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(Also see

Thanks and Greetings
for more information on
translation issues and translators.)

1.3 Disclaimer

The author takes no responsibility for any results of the use of this program.

This software is provided "AS IS" and there is no warranty of any kind, so that you use this software at your own risk.

The author reserves the right to discontinue development of the program.

1.4 Distribution

Distribution in Common

~~~~~

The Library must not be distributed isolated, detached from any specific program package, whose author has licensed the library.

If the licensed library is included within the licensing program's program distribution, the distribution conditions of this program take place as long as these do not explicitly contradict to the disposals described in the following text.

Licensed programs are not restricted to have any special legal copying conditions, so the Library may appear together with any form of Software, like e.g. Freeware, Shareware or commercial programs, perhaps with exception of "pure" Public Domain.

Restrictions

~~~~~

The program SuperView-Library in this version is product-specific Freeware (Licenseware), which at first means, that a single distribution of the Library is as well forbidden as an unauthorized distribution together with programs of non-licensees.

Also, the Library MUST not:

- be included into other program's distributions without my explicitly written permission
- be copied as a single package without being directly related to a specific program
- without a license be copied and also not be used directly or - via any tricks - indirectly

Licensing

~~~~~

There is no way of automatic licensing via "agree-to-the-above-terms". Any license has to be given in written, non-electronic form. Interim-licenses may be promised via phone, email, etc but have to be confirmed in paper form.

The only one, who is authorized to write and send licenses or promise licensing is the author of SuperView-Library, which is Andreas R. Kleinert.

If you want to license the library, please send me the following information:

STATUS - what's the status of your planned or actually existing program ?

Main categories are Freeware, Shareware, Commercial.

WHO - what's your (or your companies') name, address and phone number, maybe also email adress ?

WHAT - what kind is your program of ?  
Not any programmer of any kind of program will get a licence. I am not going to support programs, which may concern my vital interests by being direct competitors of other programs where I am involved as a participator, depending on the success of the programs. [ ;-) ]  
On the other hand there are various ways to synchronize programming efforts and to come to a solution, which is acceptable for both sides.

PLANS - according to the type of your program you might also tell me something about your plans for future versions of the program as long as it does concern a fundamental change in the program's concept and function (competitor)

SAMPLE - would be nice to see a copy of the previous, beta or final version of the program

PAYMENT - are you gonna pay for the licence ?

Freeware authors will not have to pay anything, if they get a license. Shareware authors might. Commercial programs will perhaps.  
Tell me what you think, then we'll talk about it.  
Fees aren't expensive in my opinion.

## After Licensing

~~~~~

Each license is specific to the licensee and his wishes.

Common to all licensees is the following:

- The Right to use the unmodified library within the

- program or program-group it has been licensed for
- Access to not publicly documented functions
- The Right to distribute the library together with your program
- The Right to integrate the library into the concept of your program as long as no basic parts have to be changed

- The Obligation to respect the distribution conditions and to add a ReadMe file and documentation remark reflecting this to the program
- The Obligation to send me a copy of the final, registered or register-able version of the program using SuperView-Library

If there are more questions, please don't regret to ask me, because just asking doesn't cost you anything.

I may as well tell you, which programming languages currently are directly supported (C of course always).

1.5 Abilities, Purposes and much more

The "SuperView-Library" consists of many functions and sub-libraries, which allow quick and easy displaying, saving, converting and processing of various picture formats, like IFF-ILBM, JPEG, PCX, Targa, PCD TIFF, PNG, BMP, ... (more than 50 altogether).

It has been designed for the purpose to display and process any common type of bitmap graphics as fast and as comfortable as possible on almost any Amiga hardware configuration.

External Loader-/Saver-Libraries (SVObjects), Graphic Card Drivers (SVDivers) and various Operators (SVOperators) allow easy but flexible configuration, usage and expansion.

Programming documentation is available for license-takers, only.

Feature Overview

Recognized file graphic formats

Supported graphic cards and display adapters

Supported input/output devices

Available image processing operators

1.6 Making use of 680x0 CPUs and PPC accelerators

Basically, this program does run with a plain 68000 CPU.

However, if you do own an 68020/030+68881/882 FPU or 68040/060+FPU, or maybe a dual processor board with PPC, you may wish to make use of the extra horse power.

There are certain configuration options, special libraries and/or patches available, so you perhaps should investigate into that issue a little bit deeper - but carefully.

PPC Support

=====

1. With CyberStorm PPC cards, it may make sense to make use of the "SetFastAvec" and "Set60nsMode" (SetMemMode) tools, which should speed up the system performance somewhat, i.e. by addressing your RAM with 60ns instead of 70ns access time. Newer versions allow to do these settings fromout the card's bootmenu. If you get random crashes, step back to 70ns.
2. Make sure, that you have a lot of RAM on the accelerator, so that the PPC isn't forced to make accesses to the slow motherboard RAM. If you get random crashes, make sure you followed the installation instructions, and did not configure SIMMs of different vendors for a 64 bit access bank.
3. This program does make use of "ppc.library". So: Make sure, that you a) don't have "powerpc.library" installed or b) have a version of "powerpc.library" installed, which does not conflict with "ppc.library" (V7 is said to work together with ppc.library). Don't install ppc.library without having a PPC board plugged in. Always make use of the newest 68040/68060.library plus ppc.library - as available under ftp.phase5.de or Aminet.

(There's BTW now indirect support for powerpc.library V14 as well, so you can decide. It should work to run the PPC-Library versions under Frank Wille's ppc.library emulation for WOS.)

4. Read the corresponding FAQ pages for more information on PPC support and configuration - especially note, that a keyfile is required for fully functional PPC support within this datatype.

68020/030+68881/882 FPU and 68040/060+FPU Support

=====

Usually, Amiga OS' mathiee-Libraries do automatically manage the coprocessor support, but for some reasons, these libraries are not used with this datatype:

- they can't be shared between processes
- they are not actually optimized for 68040/060+FPU as with OS 3.1

Unfortunately, the used FFP libraries don't support an FPU at all.

But there are certain patches available on Aminet, to speed up FPU support in general, add FPU support for the FFP libraries or in general allow more efficient use of the 040/060 CPUs, e.g. by avoiding unnecessary emulation of missing instructions through 68040/68060.library.

Make sure, that those patches don't conflict with certain versions of the 680x0 libraries or even are part of these already. If you've carefully read the docs you may wish to check out the following solutions:

1. Fix bugs within the math libraries

This one has nothing to do with the FFP libraries, but since there's also a bug in mathieeesingbas.library (which resides in ROM), you should install a patch for that:

- a) best solution is a newer SetPatch Version V43.x (available from ftp.amiga.de somewhere in "/pub/")
- b) if SetPatch V43 does not work with your OS version, you should try for example "SetMathPatch" (coming e.g. with GhostScript - see Aminet:gfx/show)

Those patches may conflict with some math library replacements - it seems to be logically, that a completely rewritten replacement library of course does not need to be patched any further. At least not for the same bugs...

2. Patching the math#? libraries for better (or introducing) FPU support:

- a) - FMATH V40.6 Aminet:util/libs/FMath406.LHA
 - FFPPatch Aminet:util/boot/ffppatch.lha
- b) - HSMATHLibs Aminet:util/libs/HSMATHLibs_040.lha
 Aminet:util/libs/HSMATHLibs_060.lha
- c) various other patches from the "util" area of Aminet

With the 68040/68060.libraries of p5, according to their docs, further patches of the math libraries are not recommended - however may work nevertheless.

3. General 040/060 speedup

For automatic speedup on 68020+ systems, this datatype makes use of utility.library.

This one has nothing to do with the FPU, but if you do own a 060 and OS 3.0 you should perhaps consider to install "Mult64Patch", which claims to implement the 64 bit integer functions UMult64/SMult64 of utility.library V39+ (which have

to be software emulated on the 060) two times faster than the patches done by 68060.library and four times faster than the trap emulation. A speed test program is included.

That program can be found under Aminet:util/boot/Mult64Patch.lha - however, it may already be obsolete for newer versions of your 68060.library. Do the speed check, then decide.

4. Better performance on 680x0 and PPC

Here, the following tools work quite fine on a 040/PPC board (taken in this order from s:startup-sequence):

```
C:FastExec >NIL: <NIL: NOEXEC FASTSSP FASTVBR FASTEXP FASTMEM FASTINT  ←
      REBOOT
C:SetPatch QUIET
C:QuickRom >NIL: <NIL:
C:CMQ060 >NIL: <NIL:
Run >NIL: <NIL: C:CpuBlit

FastExec V2.9      (Aminet)      -> various speedups
SetPatch V43.6b   (www.amiga.de) -> OS patches
QuickRom V36.08  (Aminet)      -> ROM to RAM
CMQ 1.2          (Aminet)      -> optimizes CopyMem(Quick)
CpuBlit98        (Aminet)      -> let the CPU do blitting
```

This all runs fine in 60ns mode, together with SetFastAvec, PPCInstall and CyberGraphX V3.

1.7 PowerPC (powerUP) support

Concept: loadable PPC-Modules for use with ppc.library V45+ (17.11.98)

The most time-consuming routines of certain modules of SuperView-Library have been ported to native PowerPC code and perhaps will profit a lot from the presence of an installed powerUP system.

These "native modules" are located in a new subdirectory of LIBS: called "svppc/", with subdirectories for each of SuperView-Library's module types.

If any "native modules" are present, these will be used whenever applicable. Should none of these modules be available, then this does not matter, since the plain 68k code (which may be optimized for a certain 68k CPU, though) will be used instead (fallback option).

Note, that SuperView-Library's native modules won't replace any of the existing libraries or modules as such - they only do supply specialized routines in native code for certain tasks.

When running any PowerPC code, you should have made sure, that there's enough RAM on the powerUP board available - at least in an A4000 the RAM interface from the CPU card (e.g. A3640) to the mainboard is so slow, that even a 68040 could not access Fast RAM with full speed,

so possibly a PowerPC would suffer from the same problem.

You should take care, that there's still enough "fast" Fast RAM available, even if all the libraries and code have been loaded: usually the graphics are loaded at last - a 1024x768 graphics in 24 Bit will just take 2.4 MB and in a dithered version again around 790 K.

If there's enough "fast" Fast RAM available, you can expect high speed increases with most basic operations, especially when internal representation conversions do take place.

(See the documentation of the single modules for further information. PowerUP support usually is marked separately, on top of the module documentation.)

Availability

NONE OF THE PPC MODULES ARE FREEWARE - THEY WON'T APPEAR ON AMINET.

54 modules (+/-) are made available in a special powerUP PPC plugin module package, which e.g. can be bought by registered SuperView/SViewNG/SViewII users or will be included with some commercial programs.

Also, there will follow some PPC modules, which will only be available for exclusive shipment with some commercial programs (as also are the concerned SV modules).

This is high end software, and its development must be financed - so you have to pay for it to help ensuring further development.

The following modules are available right now:

```
svdrivers (dir)
svoperators (dir)
  24BitToHam_ham6.svm          24BitToHam_ham6quick.svm
  24BitToHam_ham8.svm          24BitToHam_ham8quick.svm
  AnyTo24Bit_HAM.svm           Dither24Bit_floyd.svm
  Blur_24.svm                  Dither24Bit_ordered.svm
  HilbertDither256_code.svm     OptimizePalette_code.svm
  PaletteDither_code.svm        RotateFree_24.svm
  RotateFree_8.svm             Scale50_Double.svm
  Scale50_Half.svm             Sharpen_24.svm
svobjects (dir)
  24BitToHam_ham6.svm          24BitToHam_ham6quick.svm
  24BitToHam_ham8.svm          24BitToHam_ham8quick.svm
  BMP_Decode.svm               BMP_Encode.svm
  BMP_Plain.svm                DEEP_Decode24.svm
  HJG_Efdpef.svm              HJG_Fmdpef.svm
  ILBM_c2p_24.svm             ILBM_CBR_Decode.svm
  ILBM_CBR_Encode.svm         ILBM_p2c_24.svm
  JPEG_code.svm               PBM_Decode.svm
  PBM_Encode.svm              PCD_yuv.svm
  PCX_Decode24.svm            PCX_Decode4.svm
```

PCX_Decode8.svm	PCX_Encode24.svm
PCX_Encode4.svm	PCX_Encode8.svm
PICT_code.svm	PNG_code.svm
RGB8_Decode.svm	RGB8_Encode.svm
Targa_Decode1.svm	Targa_Decode16.svm
Targa_Decode24.svm	Targa_Decode8.svm
TIFF_code.svm	WPG_Decode1.svm
WPG_Decode4.svm	WPG_Decode8.svm
svsupport_c2p.svm	svsupport_p2c.svm

PLEASE NOTE, THAT NUMBER AND KIND OF THE PPC MODULES ARE SUBJECT TO CHANGES.

Picture Manager professional (PMPro) V5.5 already does include these modules, plus additionally the following exclusive PPC plugins (for SVOperators that also are exclusive to PMPro):

libs/svppc/svoperators	
Convolve_24.svm	DitherFix24_Floyd.svm
EdgeDetect_Plain.svm	ScaleFree_24.svm
ScaleFree_8.svm	

PLEASE NOTE, THAT NUMBER AND KIND OF THE PPC MODULES ARE SUBJECT TO CHANGES.

Where to obtain from ?

The PPC plugin modules basically already are part of Picture Manager professional V5.5 (or any upgrade from earlier versions).

Additionally, the (non-exclusive) PPC modules also can be ordered by registered (as well as newly registering) users of SuperView/SViewNG/SViewII. or ImageEngineer.

For details, please see the registration form coming with SViewII.

1.8 Installation and Configuration

=====

Installation Options: Overview

- A. Automatized Installer-based Installation
 1. Installer procedure

- B. Customized Installation
 1. Main installation procedure
 2. Setting Up Standard Configuration
 3. Plugging in 680x0 modules
 4. Plugging in PackerSupport
 5. Plugging in SQ-Operators
 6. Using VMEM: (Needed)
 7. Plugging in Ghostscript/Postscript (TM)

8. Reading GPlot (CGM), AmiFIG (FIG), AMF/WMF/CLP/DR2D/DRSF/DXF/WPG-vector files (MetaView)
9. Support for high PhotoCD resolutions
10. Plugging in powerUP (TM) PPC modules

C. To Be Checked Also

1. Datatypes-Support
2. Other Libraries
3. Additional settings
4. Preferences

=====

A. Automatized Installer-based Installation

=====

1. Installer procedure

Depending on the selected skill mode (novice, intermediate, expert) you will at least be asked for some of the following:

- your basic graphics engine (ECS, AGA, various GfxCards)
- a place to install the libraries to instead of LIBS:
- a place to install the catalogs to instead of SYS:locale/catalogs
- a path to assign VMEM: to (s:user-startup will be modified)
- whether
 - SVPrefs
 - should be copied to SYS:Prefs
- whether to install the PackerSupport stuff
- whether to immediately also install the SQ-Operators
- questions about (existing) GhostScript/MetaView installations

B. Customized Installation

=====

1. Main installation procedure

Copy "superview.library" and "superviewsupport.library" to your LIBS: directory, the SVObjects to "LIBS:svobjects/", the SVDivers to "LIBS:svdrivers/" and the SVOperators to "LIBS:svoperators/"!
 (PowerPC modules must be stored in "LIBS:svppc/" plus subdirectories - see paragraph 9.)

Be aware, that library names are case-sensitive and wrongly spelled libraries won't be recognized, though.

Installation of the libraries can be done to any directory, so that these may be installed separate from the system libraries. Adding the SuperView-Library to the system would then be managed via

```
Assign LIBS: [PATH] ADD
```

somewhere in the User-Startup.

2. Setting Up Standard Configuration

Docs/Sample_Configs contains basic configuration settings for ENVARC: and ENV: which have to be copied there to allow the library system running without problems. env_AGA contains plain AGA configuration and so on - see Installer script for more information.

3. Plugging in 680x0 modules

Owners of 68020-68060 systems should copy the turbo versions of some of the modules over the 68000 installation. Simply type "Copy libs/68030 to LIBS: all" or similar.

4. Plugging in PackerSupport

PackerSupport/libs/svobjects does contain the support module for XPK (includes PowerPacker PP20) compressed data. Optionally copy this to LIBS:svobjects and the config from env to ENVARC: (and ENV: as well, of course)

5. Plugging in SQ-Operators

Steve Quartly's great additional svoperators can be found within "SQ-Operators/". Just install those separately, as already done for PackerSupport before.

6. Using VMEM: (Needed)

Additionally, you should create an assignment called "VMEM:", which is intended to contain virtual memory image files or other temporary data, which may be created either by superviewsupport-library (vmem_XXXXXXXX), JPEG.svobject (jpeg_XXX) or other modules. It does not always make sense, to place this directory somewhere at a Ram-Disk, because most programs will perhaps only try to place files there, after they already checked, that there's no more memory available (so even your Ram-Disk would not grant more space).

It is suggested to place this Assign on a fast harddisk or partition, with a high AddBuffers value.

7. Plugging in Ghostscript/Postscript (TM)

If you have Ghostscript installed, you may want to use it for reading Postscript (TM) files - if not, you may consider to install it for such uses.

See

GhostScript.svobject
description for more information.

8. Reading GPlot (CGM), AmiFIG (FIG), AMF/WMF/CLP/DR2D/DRSF/DXF/WPG-vector files (MetaView)

See

GPlot.svobject

,
AmiFIG.svobject
and

MetaView.svobject
descriptions for more information
on installation.

Please note, that GPlot and AmiFIG both do require Postscript support, which means: a fully working Ghostscript installation.

Alternatively, you now can redirect CGM and FIG handling to MetaView as well. ←

9. Support for high PhotoCD resolutions

Support for BASE*4 (1536x1024) and BASE*16 (3072x2048) requires the NetPBM-Tool "hpcdtoppm" to be installed and configured for use with PCD.svobject. See PCD.svobject description for more information.

10. Plugging in powerUP (TM) PPC modules

These have to be placed to "LIBS:svppc/" into the same directories as their counterparts, thus "LIBS:svpcc/svobjects/" and so on.

C. To Be Checked Also

1. Datatypes-Support

"datatypes.library" V39+ is only needed, if OS3-DataTypes are wished to be supported - not available for OS2 users. For 24 Bit datatype support also picture.datatype V43 is needed to be installed (with ECS/AGA this one also needs a version of cyberncg.library, which had been removed from newer pic-dt 43 distributions - alternatively use the pic-dt 43, which is coming with the Picasso96 RTG system and which works with ECS/AGA without any other requirements).

2. Other Libraries

Please take care, which libraries also additionally may be needed by single SVObjects/SVDrivers/SVOperators.

3. Additional Settings

Directory Caching:

~~~~~

Buffer values (set via C:AddBuffers) for the used drives should at least be around 25, sometimes more may be quite useful.

##### Stacksize:

~~~~~

If you don't set this one to a reasonable value, the system

might crash when using some specific modules (e.g. Dither24Bit). It is strongly recommended to use values ≥ 32768 bytes with any programs using the library.

User-Startup:

~~~~~

Add the following line somewhere to s:user-startup

```
SYS:Prefs/SVPrefs >NIL: <NIL: INIT
```

It will make sure, that ppc.library already is in memory, when the first program tries to open it via superviewsupport.library.

#### 4. Preferences

-----

For modifying any specific ControlPad settings, you should use

```
SVPrefs
```

(optionally copied to SYS:Prefs during Installer-based installation).

Nevertheless sometimes modules do not come with the required .cpinfo files, so it would become necessary to edit ControlPad files directly at their locations ENV:SuperView-Library and ENVARC:SuperView-Library, maybe by using the descriptions inside the doc-file "ControlPads".

## 1.9 Overview of currently available SVOjects

Available SVOjects and/or supported file formats (mostly ← included) :

| SVOject                | Type | Read-Support       | Write-Support       |
|------------------------|------|--------------------|---------------------|
| AMF                    | *    | EXT → MetaView 1.x | (not available)     |
| BMP (Win, OS/2) / RIFF | EXT  | max 8/24bit files  | max 8/24bit files   |
| C64 (Koala, Doodle)    | EXT  | max 4bit files     | (not yet available) |
| CDR (Corel Preview)    | EXT  | (various)          | (not available)     |
| CGM                    | *    | EXT → GPlot        | (not available)     |
| CLP                    | *    | EXT → MetaView 2.x | (not available)     |
| CVP                    |      |                    |                     |

|                   |     |                   |                         |
|-------------------|-----|-------------------|-------------------------|
|                   | EXT | 24bit files       | (not available)         |
| Degas (Atari)     | EXT | max 4bit files    | (not available)         |
| DXF               |     |                   |                         |
| *                 | EXT | -> MetaView 2.x   | (not available)         |
| EPS (F)-Header    |     |                   |                         |
|                   | EXT | (various)         | only from 24bit sources |
| FBM (*nix)        |     |                   |                         |
|                   | EXT | max 8/24bit files | max 8/24bit files       |
| FIG               |     |                   |                         |
| *                 | EXT | -> AmiFIG         | (not available)         |
| Icon (Amiga)      |     |                   |                         |
|                   | EXT | 4/16 Color Icons  | 4/16 Color Icons        |
| Icon (W*nd*ws)    |     |                   |                         |
|                   | EXT | 16 Color Icons    | (not available)         |
| IFF-ACBM          |     |                   |                         |
|                   | EXT | max 8bit files    | max 8bit files          |
| IFF-DEEP          |     |                   |                         |
|                   | EXT | 24bit files       | only 24bit files        |
| IFF-DR2D          |     |                   |                         |
| *                 | EXT | -> MetaView 2.x   | (not available)         |
| IFF-DRSD          |     |                   |                         |
| *                 | EXT | -> MetaView 2.x   | (not available)         |
| IFF-FAXX          |     |                   |                         |
|                   | EXT | 1bit files        | (not available)         |
| IFF-ILBM          |     |                   |                         |
| /                 |     |                   |                         |
| FastILBM24        |     |                   |                         |
|                   | EXT | max 8/24bit files | max 8/24bit files       |
| IFF-PBM           |     |                   |                         |
|                   | EXT | 8bit files        | 8bit files              |
| IFF-RGB8/N        |     |                   |                         |
|                   | EXT | 24bit files       | only 24bit files        |
| IFF-RGFX          |     |                   |                         |
|                   | EXT | 8/24bit files     | 8/24bit files           |
| IFF-YUVN          |     |                   |                         |
|                   | EXT | 24bit files       | only 24bit files        |
| IMG (GEM/V*nt*ra) |     |                   |                         |
|                   | EXT | max 8bit files    | (not yet available)     |

---

|                    |     |                       |                       |
|--------------------|-----|-----------------------|-----------------------|
| JPEG (JFIF)        | EXT | max 8/24bit files     | always as 24bit files |
| Limbo              |     |                       |                       |
| *                  | EXT | -> Limbo              | (24 Bit via Limbo)    |
| MAC (MacPaint)     |     |                       |                       |
|                    | EXT | max 1bit files        | (not yet available)   |
| PCD (PhotoCD)      |     |                       |                       |
|                    | EXT | 24bit files           | (not available)       |
| PCX upto V3.0      |     |                       |                       |
|                    | EXT | max 8/24bit files     | max 8/24bit files     |
| PICT-2 (Mac)       |     |                       |                       |
|                    | EXT | always as 24bit files | (not available)       |
| Pictor/PCPaint/PIC |     |                       |                       |
|                    | EXT | max 8bit files        | (not yet available)   |
| PNG (Network Gfx)  |     |                       |                       |
|                    | EXT | max 8/24bit files     | max 8/24bit files     |
| PNM (*nix)         |     |                       |                       |
|                    | EXT | max 8/24bit files     | max 8/24bit files     |
| Postscript/PDF     |     |                       |                       |
| *                  | EXT | -> Ghostscript        | (not available)       |
| QRT/POV            |     |                       |                       |
|                    | EXT | 24bit files           | 24bit files           |
| SGI                |     |                       |                       |
|                    | EXT | max 8/24bit files     | only 24bit files      |
| Spectrum ZX        | EXT | max 8bit files        | (not available)       |
| SunRaster (RAS)    |     |                       |                       |
|                    | EXT | max 8/24bit files     | max 8/24bit files     |
| SVG Graphics       |     |                       |                       |
|                    | EXT | max 8/24bit files     | max 8/24bit files     |
| Targa              |     |                       |                       |
|                    | EXT | max 8/24bit files     | max 8/24bit files     |
| TIFF (V5.0)        |     |                       |                       |
|                    | EXT | max 8/24bit files     | max 8/24bit files     |
| TIM                |     |                       |                       |
|                    | EXT | max 8/24bit files     | (not yet ↔ available) |
| Utah RLE           |     |                       |                       |
|                    | EXT | 24bit files           | 24bit files           |

---



```

WMF
*                               EXT   -> MetaView 1.x           (not available)

WPG (WP-Draw BitMap)
  EXT   max 8bit files           (not yet available)

WPG (WP-Draw Drawing)
* EXT   -> MetaView 2.x           (not available)

XWD
                               EXT   max 8/24bit files       (not available)

DataTypes
                               INT   all Pictures/DTs         (not available)

```

\* SVOobjects marked with an Asterisk will only work, when the mentioned external programs (usually freely distributable software from AmiNet) also have been installed and set up as needed. (If not set up, these may be disabled via controlpad STATUS=DISABLED.)

There's also an Unpack.svobject in the PackerSupport-Directory, which allows reading of packed files without explicitly unpacking these before (supports XPK and PP20). It also supports reading of Mac-written .HQX files (BinHex compression) without having to extract the data fork before.

It is as well possible to save graphics as  
C or Asm-Sourcecode  
.

---

GIF is obsolete - you neither should use nor support it any longer. If you are doing WWW design, use PNG and JPEG instead. It's important !

If you need to handle GIF graphics (e.g for conversion to PNG), just install one of the available GIF datatypes - and reading will work.

---

Planned SVOobjects (no guarantee !) :

- XBM
- MTV
- Rendition
- various raw formats
- more Atari formats
  - (if I get my hands on some pictures -> send some, if PD !)
- and more
  - (you may send me gfx's and/or descriptions, if PD)

Please ask before sending graphics via email.

---

## 1.10 Overview of currently available Device SVOjects

Available SVOjects :

| SVOject | Type                                                |
|---------|-----------------------------------------------------|
| Printer | supports printer.device/TurboPrint3-5/Studio EXPORT |
| Scanner | supports scanner.device of ScanQuix IMPORT          |

## 1.11 Overview of currently available SVDivers

Overview: Supported and Non-supported Graphics Cards

=====

| Card Name           | Kind of Support   |
|---------------------|-------------------|
| -----               | -----             |
| Card Name           | Kind of Support   |
| -----               | -----             |
| 1600GX              | -                 |
| A2410 TIGA          | CG EGS 1          |
| BVisionPPC          | CG 2              |
| CyberVision64       | CG P96 3          |
| CyberVision64/3D    | CG P96 4          |
| CyberVisionPPC      | CG 5              |
| DCTV                | -                 |
| Domino              | CG EGS P96 6      |
| DraCo Altais        | CG 7              |
| Firecracker         | -                 |
| GDA-1               | -                 |
| Graffity            | -                 |
| GVP 110/24          | EGS 8             |
| GVP IV 24           | EGS 9             |
| Colormaster         | EGS 10            |
| Inferno (Wildfire)  | CG 11             |
| Merlin              | P96 NAT 12        |
| OMniBus             | P96 13            |
| OpalVision          | NAT 14            |
| Picasso II          | CG P96 NAT 15     |
| Picasso II+         | CG P96 NAT 16     |
| Picasso IV          | CG P96 17         |
| Piccolo             | CG EGS P96 18     |
| Piccolo SD64        | CG EGS P96 19     |
| Pixel64             | CG P96 20         |
| Rain*ow II (R-II)   | EGS 21            |
| Rain*ow III (R-III) | EGS 22            |
| Retina Z2           | EGS NAT 23        |
| Retina Z3 BLT       | CG EGS P96 NAT 24 |
| Spectrum            | CG EGS P96 25     |
| Visiona             | EGS 26            |

As you can see, any reasonable graphics card for the Amiga is supported via one or more SVDDrivers for emulation software, available for these. Only some strange RGB-Port adaptors or rare framebuffers are not supported.

#### Shortcut Explanation

-----  
 CG = CyberGraphX or CyberGraphX-Clone available (CyberGraphics.svdriver)  
 EGS = EGS available (with EGSPPlus this means: CG, too)  
 P96 = Picasso96 SVDriver available  
 NAT = native emulation software and SVDriver available, as long as  
       not already covered by the other mentions  
 - = nothing known about any emulation software

Available SVDDrivers (mostly included) :

| SVDriver    | Requirements                    | BITPLANE | ONEPLANE |
|-------------|---------------------------------|----------|----------|
| OCS/ECS     | OCS/ECS* and OS V2.04+ (V37+)   | (system) | 8/24bit  |
| AGA         | AGA* and OS V3.x+ (V39+)        | (system) | 8/24bit  |
| Window      | (AGA and/or CyberGraphX RTG)    | 8bit     | 8/24bit  |
| CgxOverlay  | (CyberGraphX RTG, Overlay)      | 8bit     | 8/24bit  |
| CyberGraphX | CyberGraphX** RTG System        | 8bit     | 8/24bit  |
| EGS 7       | EGS Emulation Software V7       | 8bit     | 8/24bit  |
| Merlin      | Merlin*** Card Software         | 8bit     | 8/24bit  |
| OpalVision  | OpalVision Card Software        | 8bit     | 8/24bit  |
| Picasso96   | Picasso96 RTG System            | 8bit     | 8/24bit  |
| Picasso     | PicassoEmu** (Picasso II(+)/IV) | 8bit     | 8/24bit  |
| Retina      | RetinaEmu (Retina Z2/Z3)        | 8bit     | 8/24bit  |

---

- \* ECS- and AGA.svdriver will both work with graphic cards, if they are configured with "BITMAPCOPY=RTG" and the GfxCard software does supply a Workbench Emulation and/or Screen Promotion. If you own a graphics card, without having an appropriate SVDriver for it, always try using AGA.svdriver at first. For handling 24 Bit, extra settings should be done (dithering, etc.)
- \*\* The APIs of these RTG/emulation systems have been "cloned" by other systems, also. Drivers possibly may work with these as well, since they are not relying on any undocumented features - except maybe concerning specific system-friendly workarounds for specific bugs. If there is a "native" driver for these systems, you should not use the "cloned" API driver - if not stated differently or unavoidable.
- \*\*\* With ProBench V3, use the CyberGraphX SVDriver instead. The native API seems to have become incompatible to its predecessors in some ways.

[ API = Application Programmers Interface ]

Planned SVDrivers:

=====

"Send me a card, I write the Driver !"  
(at least trying to do so, then... ;-)

Dropped Projects:

=====

There won't be drivers for: - Graffiti

Since the graffiti.library does not offer OS conformeous access (IDCMP) and the number of available resolutions is far too limited.

## 1.12 Overview of currently available SVOperators

Available SVOperators (mostly included) :

SVOperator

24BitToHAM

dithers 24 bit RGB to HAM6/HAM8

AnyTo24Bit

converts input to 24 bit

Blur

applies blur filter to graphics

CallPNM  
Call preset external PNM operator

Crop  
"crops" boxes of any size from 8/24 bit graphics

Dither24Bit  
dithers 24 bit RGB to 2..256 Colors

ExtractBlue  
extracts Blue values from (upto) 256 Colors or 24 bit

ExtractGrayScales  
converts (upto) 256 Colors or 24 bit to Gray

ExtractGreen  
extracts Green values from (upto) 256 Colors or 24 bit

ExtractRed  
extracts Red values from (upto) 256 Colors or 24 bit

HilbertDither256  
dithers to Black & White

LeftToRight  
turns left to right ...

OptimizePalette  
reduces depth by filtering unused or redundant colors

PaletteDither  
dithers (optionally in parts) to a user-supplied palette

Rotate  
rotates by 90/180/270 degrees ...

RotateFree  
rotates freely by 0..360 degrees about a given point

Scale50  
scales to half/double size

Sharpen  
applies sharpen operator to graphics

TopToBottom  
turns top to bottom ...

XOR  
nice effects ...

Just for information:

- this distribution also includes a bunch of image processing operators by
-

Steve Quartly  
(SQOperators) like

|                          |                         |
|--------------------------|-------------------------|
| SQBentley.svoperator     | SQBlur.svoperator       |
| SQContrast.svoperator    | SQDeep_Press.svoperator |
| SQDiffuse.svoperator     | SQEmboss.svoperator     |
| SQHighPass.svoperator    | SQMosaic.svoperator     |
| SQMotion_Blur.svoperator | SQOilPaint.svoperator   |
| SQSharpen.svoperator     | SQSlicing.svoperator    |
| SQThreshold.svoperator   | SQTiling.svoperator     |

- buyers of the commercial program  
Picture Manager professional  
(short: PMPro) will also get some additional operators, ↔  
which  
are not freely distributable (exclusively shipped with PMPro):

|                       |                        |
|-----------------------|------------------------|
| AddText.svoperator    | Antique.svoperator     |
| AutoBorder.svoperator | Brightness.svoperator  |
| Complement.svoperator | Contrast.svoperator    |
| Convolve.svoperator   | DitherFix24.svoperator |
| EdgeDetect.svoperator | Gamma.svoperator       |
| Mosaic.svoperator     | PagePrint.svoperator   |
| RGBAdjust.svoperator  | ScaleFree.svoperator   |

(referring to release V5.5 - may differ from version to version)

Planned SVOperators (no guarantee !) :

- some more operators for common image processing
- and more

## 1.13 Software supporting SuperView-Library

- o The following programs do own a license for SuperView-Library:

| Program        | Description                                   | Status |
|----------------|-----------------------------------------------|--------|
| SuperView      | THE image viewer and converter for anyone     | SW     |
| SqOpal         | THE image viewer and processor for OpalVision | SW     |
| SuperLoader    | THE loader module for OpalPaint               | FW     |
| ImageEngineer  | THE image processing program for anyone       | SW     |
| PictureManager | THE image database program for professionals  | COM    |

DRAFU

THE function plotting program

SW

GenesisPro Editor  
 Game Level Editor FW  
 ArtEffect SuperView-Library Plugin COM

- o The following small programs have been written by me and do also support SuperView-Library in some way :

| Program    | Description, Author                   | Status |
|------------|---------------------------------------|--------|
| SimpleView | SuperView-Library Example Program     | FW     |
| MicroView  | SuperView-Library Example Program     | FW     |
| KFracPlus  | fractal generator (saves via library) | FW     |
| PNG-Box    | conversion "any to PNG" for WWW uses  | SW     |

## 1.14 superviewnote

SuperView is a program that has been designed for the purpose, to display any kind of graphic as fast and as comfortable as possible.

Fast means not only fast in reading and displaying but also in calling and using the program.

Highest possible flexibility is implemented via the external Driver-System, consisting of the SuperView-Library, the SVOobjects, SVDdrivers and SVOoperators.

These intentions resulted in a bundle of features and options you have access to when using SuperView and installing it to your System:

- licensed "SuperView-Library" (see directory SuperViewLibrary)
- intensive use of many special OS V2.04+ and OS V2.1+ capabilities
- support of many OS V3.x+ and AGA graphics features, as e.g. support of interleaved BitMaps
- support of all SVOobjects, SVDdrivers and SVOoperators of SuperView-Library
- "Screen-Grabbing"
- Commodity (optional)
- ARexx-Ports (optional)
- AppIcon (optional)
- AppMenu (optional)
- AppWindow (optional)
- Clipboard reading and writing
- Support of Devices, like e.g. Scanners
- Localization for OS V2.1+ (not all texts yet)
- AmigaGuide OnLine-Help for OS V2.04+ (asynchroneous & localized with 2.1+)
- detailed configuration via Config-File, Cli-Options and Workbench-Tooltypes
- Graphical User Interface (GUI) for Workbench-Users (optional)
- conversion of the supported File-Formats
- information about the displayed graphics via Requester,

selectable via GUI-Menu  
- and more

It is Shareware and can be found on AmiNet under gfx/show (for example gfx/show/SView.lha). It's direct successor is called SViewNG and can be downloaded as gfx/show/SViewNG.lha

SuperView/SViewNG WWW pages:

[http://home.t-online.de/home/Andreas\\_Kleinert/](http://home.t-online.de/home/Andreas_Kleinert/)  
<http://www.amigaworld.com/support/sview/>

## 1.15 sqopalnote

SqOpal is an Image Processing, display and manipulation package especially for the OpalVision 24 bit Graphics and FrameBuffer hardware.

It has been written by Steve Quartly and Paul Huxham and optionally uses SuperView-Library.

It is Shareware and can be found on AmiNet under gfx/show (for example gfx/show/SqOpal20.lha).

Steve Quartly: [steveq@mafeking.scouts.org.au](mailto:steveq@mafeking.scouts.org.au)  
Paul Huxham: [paulh@perth.DIALix.oz.au](mailto:paulh@perth.DIALix.oz.au)

## 1.16 superloadernote

SuperLoader is a Loader Module for OpalPaint (OpalPaint comes with the OpalVision 24 bit Graphics and FrameBuffer hardware).

It has been written by Steve Quartly and Paul Huxham and uses SuperView-Library.

It is Freeware and can be found on AmiNet under gfx/board (for example gfx/board/SuperLoader11.lha).

Steve Quartly: [steveq@mafeking.scouts.org.au](mailto:steveq@mafeking.scouts.org.au)  
Paul Huxham: [paulh@perth.DIALix.oz.au](mailto:paulh@perth.DIALix.oz.au)

## 1.17 imageengineernote

Image Engineer is a shareware image processing application for any Amiga with 68020 and OS 2.x or greater.

Image Engineer can be used for tasks varying from converting images between different file formats, rendering 24 bit images down to standard Amiga screen modes, enhancing badly scanned images, applying special effects even up to advanced image composition.

---



What you can use it for is basically limited by what you can think of.

Registration fee is only 35 US dollar (45 AUS dollar, 55 DEM).  
Registration sites are in the Netherlands (Simon Edwards)  
and Germany (Andreas R. Kleinert).

Registered users will be sent a personal keyfile which will  
unlock all of Image Engineer removing the limits on the image size,  
and the 'Register Now...' requesters.

This keyfile will also work for future versions.  
Keyfiles can be sent out via mail or Email.

IE can be found in (currently) two archives on AmiNet under gfx/edit  
(for example gfx/edit/ImEngV3.41p1.lha and /ImEngV3.41p2.lha).

Simon Edwards: sbe@worldonline.nl  
IE WWW page: <http://www.amigaworld.com/support/imageengineer/>

## 1.18 picmanagernote

Picture Manager Professional (PMPro) V5.5 is an excellent commercial  
image catalogization program with a large number of features for  
creation and handling of thumbnail tables.

It is a powerful database and allows loading, processing and displaying  
images via SuperView-Library and includes an automatic conversion  
function for catalogs of images, which allows to convert between all file  
formats SuperView-Library does support ... AND MORE ...

It even can directly scan LHA and LZX archives for images.

- For a demo version of the ENGLISH version V5 of Jürgen Schäfer's  
Picture Manager prof. please see Aminet:biz/demo/pm5\_demo.lha
- The GERMAN version V5.5 of Jürgen Schäfer's Picture Manager prof.  
can be obtained from

IrseeSoft SPCS  
Meinrad-Spieß-Platz 2  
D-87660 Irsee                      Voice: +49-(0)8341-74327  
Germany                              Fax:     +49-(0)8341-12042

Or from any distributor. The official pricing as with December 1998  
is 129 DEM (no guarantee). Ask them for it.

IrseeSoft also are the manufacturers of the TurboPrint V7  
high quality printer driver enhancement system.

A CD-ROM containing catalogues of more than 25000 graphics from  
Amiga CD-ROMs as well as a full version of PM 2.0 and demo versions  
(german) of PMPro 4 and TurboPrint 5 is available for 29 DEM  
(no guarantee). It's the first one of a new CD-ROM series - the second

already has been released and does contain graphic catalogs for the Aminet 1-16 and Aminet Set 1-4 CD-ROMs.

IrseeSoft WWW page: <http://www.irseesoftware.com>  
IrseeSoft: [mail@irseesoftware.com](mailto:mail@irseesoftware.com)

## 1.19 drafunote

DRAFU plus is a function plotter, which optionally supports SuperView-Library for saving the drawings from single windows.

It includes the following features:

- freely defineable function terms ( $x^?$ , sin, cos, tan, ...)  
(function parser by Dipl.Ing. Ulrich Degens)
- unlimited number of sizeable windows on the screen
- unlimited number of functions per window  
(presented as a list)
- upto 256 colors on the screen (AGA):
  - freely selectable draw color for each function
  - freely selectable background, drawing and axis color  
for each window
- loading and saving of function lists
- flexible axis' description (decimal, logarithmically, scientific)
- single/double axis description
- saving windows drawings in any of the graphics file formats  
SuperView-Library does support (optionally, library is not needed)
- hardcopy function

AND MUCH MORE

DRAFU can be found on AmiNet under misc/math  
(for example misc/math/DRAFU.lha).

Author: me ;-)

## 1.20 genesisnote

GenesisPro is a 3D Level Editor, that is usable for Dungeonmaster style and Wolfenstein 3D style/DOOM style games (it does not feature not-rectangular walls, but it DOES feature floors of different height).

It has been written by Alex Grasso and Steffen Haeuser.

GPE is Freeware and can be found on AmiNet under game/demo  
(for example game/demo/GenesisPro.lha).

Steffen Haeuser: Fido 2:2487/3009.0, [MagicSN@Birdland.es.bawue.de](mailto:MagicSN@Birdland.es.bawue.de)

## 1.21 And thanks for all the fish:

I perhaps have to thank many persons for supporting me with ideas, Bug-reports and so on :

Thanks go to (in alphabetical order) :

\* Jan van den Baard

... for his great tool GadToolsBox, which I formerly used to design the GUI of  
SVPrefs  
.

\* Ian O'Connor

... for the Designer, which I used before Wizard for GUI creation.

\* Simon "ImageEngineer" Edwards

... for a lot of things concerning SuperView-Library :-)

\* Gerd Frank

... for Beta-Testing, Bug-Reports and for his many ideas and suggestions, concerning SuperView-Library and SuperView (also see notes there) !  
And last not least for the first draft of the Guide Documentation... ;-)

\* Roman Patzner

... for the nice icons he designed for use with Martin Huttenloher's MagicWB (8 Colors minimum) and sent to me for inclusion with SuperView. With SuperView-Library only the InstallerScript-Icon is used yet (several times ;-)

\* Steve Quartly and Paul Huxham

... for the various versions of OPAL.svdriver included with the library (Steve and Paul) and for Steve's SQ-Operators, included with his friendly permission.  
Steve also did "SuperLoader" and "SqOpal" together with Paul Huxham.  
THANKS !

\* Georg Rottlaender <Georg.Rottlaender@home.ivm.de> for redesigning the Wizard GUI of the prefs program

\* Jürgen Schäfer

... for specific Beta-Testing and related Bug-Reports, as well as several useful hints and suggestions on implementing new features to the library.

\* Martin Schulze

... for uploading SuperView onto the AmiNet and including it into the SaarAG series, so that it reached more people out there.

---

Also for sending and receiving all those mails, which did not find their way through the labyrinth of Fido-Gateways ;-)

\* Detlef Winkler

... for the new Icons for Doc- and AmigaGuide-files, included with the Library. He also designed some graphics and icons for use with SuperView and new drawer icons.

Additionally, he had a lot of ideas, suggestions and graphics for 24 bit IFF-ILBM, IFF-YUVN, IFF-DEEP and SGI support.

\* to the translators

|                   |                     |                                        |
|-------------------|---------------------|----------------------------------------|
| Français:         | Julien Wilk         | (wilkj@esiee.fr)                       |
|                   | Pascal Rullier      | (rullier@triade.fr)                    |
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\* and last NOT LEAST

- all \_registered\_ users of SuperView for supporting Shareware !!

\*\*\* COMMERCIAL BREAK - BEGIN \*\*\*

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\*\*\* COMMERCIAL BREAK - END \*\*\*

- the people mentioned below (still in alphabetical order ;-):

|          |            |                                                                                                       |
|----------|------------|-------------------------------------------------------------------------------------------------------|
| Joel     | Alvim      | for managing/coordinating the ATO work                                                                |
| Torbjörn | Aronsson   | for suggestions and bug reports                                                                       |
| Ralph    | Babel      | for writing the useful "Amiga Guru Book"<br>and for competent statements in<br>DE.COMP.SYS.AMIGA.TECH |
| Alex     | Carbin     | TuC / Co-Sysop Century                                                                                |
| Rüdiger  | Dombrowski | ADX-Datentechnik                                                                                      |
| Thomas   | Dorn       | Author of XiPaint (thx for 3.2 and 4.0)                                                               |
| Sven     | Drieling   | "Indy" - Creator of "Power-Brei" DiskMag                                                              |

|           |             |                                                                                                   |
|-----------|-------------|---------------------------------------------------------------------------------------------------|
|           |             | and the Oberon2-Language interfaces and modules                                                   |
| Oliver    | Eichhorn    | for technical discussions about EGS support                                                       |
| Thomas    | Eigentler   | Programmer of MERLIN.svdriver (included)                                                          |
| Wolf      | Faust       | Studio programmer                                                                                 |
| Thomas    | Fischbach   | did various online support for a long time                                                        |
| Fred      | Fish        | AmigaLibDisks and Fish CD-ROMs                                                                    |
| Klaus     | Gillarek    | Beta testing Picasso96.svdriver :-)                                                               |
| Stefan    | Grad        | GPD-Disks                                                                                         |
| Klaus     | Holtorf     | for detailed information on graphic file formats                                                  |
| Ing.-büro | Helfrich    | for supplying the PiccoloSD64 Graphics Card                                                       |
| Colin J.  | Knight      | for debugging                                                                                     |
| Stefan    | Kremer      | TuC / Sysop Century                                                                               |
| Alex      | Lange       | Time PD-Disks (former aps-electronic)                                                             |
| H.P.      | Lattka      | Franz PD-Disks                                                                                    |
| Andreas   | Manewaldt   | Taifun PD-Disks                                                                                   |
| Axel      | Melzener    | Game Object Design                                                                                |
| Andreas   | Neumann     | Creator of the PCQPascal-Language includes<br>and modules                                         |
| Patrik M  | Nydensten   | for lots of suggestions and bug reports                                                           |
| Dr. Greg  | Perry       | for help on IFF-FAXX implementation                                                               |
| Michael   | Petrikowski | Amiga Szene PD-Disks, SEP - Software-Entwicklung                                                  |
| Albi      | Rebmann     | supplier of my ftn.neckar-alb.de domain                                                           |
| Frank     | Taha        | thanks for the DP II (PC) PBM graphics                                                            |
| Michael   | Trautes     | Sysop of Micky's box - my current Fido Boss                                                       |
| Michael   | Trautmann   | PC-Programmer, for information on Win icons                                                       |
| Christian | Wincziers   | Sent me some PICT-2 graphics. Thanks !                                                            |
| Florian   | Zeiler      | Sending me the RetinaZ3 and PicassoII graphic<br>cards enabled me to write own Drivers for these. |

- some users, which e.g. reported bugs via mail, e-mail or telephone or did something else related to my programming work on the library (only the ones, which have not already been listed above) :

|             |             |                                    |
|-------------|-------------|------------------------------------|
| Thomas      | Alexnat     |                                    |
| Joachim     | Baumeister  |                                    |
| Rudi        | Brand       |                                    |
| Aaron       | Digulla     |                                    |
| C. Davis    | Sprague     | (dsprague@mhv.net; MCP bug report) |
| Michael     | Flad        |                                    |
| Grant       | Fribbens    |                                    |
| Thomas      | Gundlach    |                                    |
| Michael     | Gruber      |                                    |
| Richard     | Hartmann    |                                    |
| Mats        | Jansson     | (for reporting 060 problems)       |
| Michael     | Kilimann    | (for reporting 060 problems)       |
| Mika        | Lundell     | MERLIN testing and so on. Thanks.  |
| Mats        | Jansson     |                                    |
| Jim & Becky | Maciorowski | (thanks for the nice card :-)      |
| William     | Maddock     |                                    |
| Michel      | De Meerleer |                                    |
| Neil        | Mohr        |                                    |
| Patrik      | Nydensten   | lots (tons ;- ) of suggestions     |
| Patrick     | Ohly        |                                    |
| Andy        | Philpotts   |                                    |
| Dr. Heiko   | Pollmann    |                                    |
| Fabio       | Rotondo     |                                    |
| Jürgen      | Schneider   |                                    |

Tommy            Simonsen  
Klaus            Stengel  
Reinhard        Theling  
Henrik           Tikanvaara  
Marco            Vernaglione  
Marc-Tell        Volkmann  
Fabien           Wernly  
Tilo             Winkler            (thanks for the strange TIFFs ;-)

and more.

Maybe I forgot somebody to list here, but nobody's perfect... ;-)

Please note: If you wrote to me and didn't get an answer,  
this need not necessarily mean, that I didn't  
answer - mails can get lost sometimes.  
Please tell me and ask again!

## 1.22 How to contact the author

\*\* General PerSuaSiVe SoftWorX WWW Support Site is <http://wdo.de/ark/>  
\*\* - actually redirected to [http://home.t-online.de/home/Andreas\\_Kleinert/](http://home.t-online.de/home/Andreas_Kleinert/)

```
|-----|
| You may reach me the following way. |
| Send bug-reports, money or whatever to: |
|-----|
| * SuperView Development & Registration * |
| * DRAFU Development & Registration * |
| * Image Engineer Registration Site Europe * |
| | |
| | PerSuaSiVe SoftWorX |
| | |
| | Andreas R. Kleinert |
| | Sandstrasse 1 |
| | D-57072 Siegen |
| | Germany, Europe |
| | |
| Any snail mail to the old address will still be routed. |
| | |
| | Phone: +49-271-22869 also FAX + AM |
| | |
| | Weekdays after 18.00h. |
| | |
| | When calling via phone you may leave a message, |
| | if I'm not available - but don't expect me |
| | calling back to USA, Australia, ... since |
| | german phone rates are HIGHLY expensive. |
|-----|
```

EMail:

Please send binaries via ARK@News.wwbnet.de, and keep them smaller than 16 KB - otherwise ask before. Please think twice before sending them - my postbox is not unlimited in size.

\* Do not send binaries via Fido or Fido-Gates ! \*

```
- Fido   Andreas Kleinert 2:2457/350.18
- Usenet
  >>>   Andreas_Kleinert@t-online.de      (T-Online)
        ARK@News.wwbnet.de              (Z-Netz)
        ARK@superview.ftn.neckar-alb.de  (Fido-Gate)
        Andreas_Kleinert@gmx.de         (GMX)
```

(note, that mail sent to @gmx.de currently will be forwarded to @t-online.de - so, as long as it works, try to address the latter directly)

- If nothing else works, try one of these public Fido-Usenet gateways:

In Germany:  
Andreas\_Kleinert@p18.f350.n2457.z2.fido.sub.org

From USA or elsewhere:  
Andreas\_Kleinert@p18.f350.n2457.z2.fidonet.org

When reporting any bugs, please don't forget to include a detailed description of the bug and tell me, if it is reproduceable or not. Also mention the version number of SuperView-Library (and e.g. SuperView) which caused the bug and describe your system configuration (Amiga model CDTV/CD-32/600 (HD)/500 (+)/1000/1500/1200 (+/HD)/2000/2200/2500 (UX/AT)/3000 (+/T)/4000 (/030/040/060/PPC) (T)/DraCo (/040/060)/4060L/5050T, Kickstart/OS Version, RAM, HardDisk, GfxCard, any special Hardware/Software)

Since there recently have been some problems: please don't forget to mention, whether your machine is accelerated in any way, or not (68020/.../060 plus 68881/882, PMMU or PowerUp/PPC).

Would be nice to know, whether it is going to run under UAE or any other Amiga or AmigaOS emulation, etc.

## 1.23 The future of SuperView-Library...

The Future (or: The Undiscovered Zone ;-)

=====

Well, ideas cannot be planned and creativity is not able to be calculated ;-)

So I can only express, what I'm thinking about the future of the library: There are many things, which I want to implement, on the other hand there are things, which are just necessary to be implemented sooner or later. So much work has to be done (still).

I'll try to do this, but I hope that there's enough support from the Amiga programmers all over the world (via Inter/AmiNet, Fido, etc.) to help me to continue doing so.

This does not only mean financial support, but also additional programming efforts like third-party improvements on the library.

You may contact me for developer support - like already mentioned before.

- Andy

## 1.24 Known bugs and suggestions for workarounds

Harddisk MaxTransfer problem (workaround)

Problems with specific applications (workaround)

Crashes on 060 systems should no longer appear - if the library ←  
crashes

on specific modules at startup-time, please trace it back with SnoopDOS, delete that specific modules, and contact me for a bug-report.

Minor problems:

- o C. Davis Sprague told me, that the combination superview.library and MCP with active NEWTOOLTYPES patch did cause crashing the library at startup time. So don't use that patch...

There seem to be more options in MCP, which may become 'critical'...

Whenever you encounter any problems: first try it again without any patches running !

- o Do not mix libraries from Picasso96 and CyberGraphX - when again switching from P96 to CGfx with Picasso96API.library still being in LIBS: then your system will immediately crash with the next opening of that library. (This may have been fixed with newer versions of Picasso96, but don't be suprised if not.)

## 1.25 Harddisk MaxTransfer Problem

IDE-MaxTransfer Problem (in rare cases, SCSI concerned, too)

-----

Since SuperView-Library usually holds very large buffers within memory, it also likes to read and write these completely from and to disk. This means, that the specific device drivers are confronted with quite large values of bytes to be read or written, which perhaps usually does not happen very often.



Sometimes the firmware of IDE harddrives, like shipped with the A4000/030-040 or A1200HD, does not support transfers of blocks larger than 64K (65535 Bytes) during one single write operation. Usually the DOS splits larger writing calls to take care of this restriction. But since this is just a lack of performance and actually does not comply to the IDE/AT standard, the default value for this "MaxTransfer" is not 0xFFFF (64K) but 0FFFFFFF or 0FFFFFFFF instead.

If any written graphics files are mysteriously damaged or will be read incorrectly (writing usually is more critical than reading), you should start your "HDToolBox" and select "Partition Drive" for the concerned HardDrive. After that activate "Advanced Options" and chose "Change". Modify the "MaxTransfer" field, so that it does reflect "0x00008000" (which is the safest value - "0x0001Fe00" or "0x0000FFFF" may work as well, but this would have to be explicitly tested).

After that leave all the windows by confirming "OK" and select "Save Changes to Drive" (no longer disabled) on the first window.

Do not change any other settings within "Partition Drive", if you don't know, what you're doing, since actually partitioning your HardDisk would cause your complete data to be lost. If you did change something you didn't want to change, just "Cancel" the whole thing and start from the beginning.

Please note that, if you don't have correct MaxTransfer value settings, this may cause damage to data on your harddisk. Either when reading/writing via SuperView-Library or with other programs.

## 1.26 Problems with specific applications

Here's a list of several programs, which either cause SuperView- ←  
Library  
to crash, or which may crash or fail unexpected (so that it might seem, as if SuperView-Library did crash or were the reason of the fault):

### o p5 Mk3 problems

=====

Problem

-----

Drivers are not correctly loaded, preferences can't be changed.

Solution

-----

It has been reported, that a firmware upgrade from V44.38 to V44.57 did fix the problem. So, please only use versions equal or greater than this one.

### o Crashes PicassoIV and Picasso96

=====

Problem/Solution

-----

If the library crashes at startup-time silently always, or the machine produces strange visual effects, make sure that you're using the newest version of

Picasso96 AND that you've an uptodate flash ROM on your PicassoIV. There seem to have been problems with older versions, so you may wish to upgrade your card's software.

o Mixed Picasso96 and CyberGfx environment

=====

Problem #1

-----

Picasso96 users, which have the Picasso96.svdriver installed (that's default, unless you "exclude" it via SVPrefs

or

delete it), and do switch between P96 and CyberGfx, should note the following: without removing Picasso96API.library from Libs: when CyberGfx is running, any program that tries to open Picasso96API.library will make it crashing (since that library tries to create another, emulated instance of cybergraphics.library, which must fail).

Solution #1

-----

Either

- delete/exclude Picasso96.svdriver
- move all libraries, not only the monitor drivers, when switching between P96 and CyberGfx
- wait for a bugfix (Tobias Abt and Frank Mariak both have been informed)

Problem #2

-----

There's a Picasso96API.library replacement for CyberGraphX, written by Steffen Haeuser. V20.0 does produce a couple of Enforcer hits when being opened.

Solution #2

-----

Either

- remove it
- remove Picasso96.svdriver
- upgrade to a bug-fixed version

o EGS libraries V6 and V7 © VIONA Development

=====

Problem

-----

When flushing the EGS libraries, it seems that the libraries will cause recoverable alerts with OS 3.x. Maybe on some systems real crashes will occur. Don't know, whether the libraries are really the source, but it's likely.

Solution

-----

Don't flush ;-)

- o DOpus5 (supposed to be fixed with Magellan release)  
=====
  - Problem  
-----  
Not a serious problem. DOpus5 does not seem to figure the correct version numbers from sv library files, when requested to do so.
  - Solution  
-----  
C:Version libraryname
  - o LX/020 1.03 © 1993 Xenomiga Technologie (Jonathan Forbes)  
=====
  - Problem  
-----  
Obviously can't correctly extract large LZH/LHA archives.
  - o MCP (various versions)  
=====
  - Problem  
-----  
Seems to cause: ramlib-crashes, odd address gurus, check instruction gurus or bad screen colors, ...
  - Solution  
-----  
Disable the following MCP patches:
    - new tooltypes
    - reqtols patch
    - onereq
    - library search
    - SetRGB32
  - o NewMode V3.3 (and below) © 1992-95 by Andreas Linnemann  
=====
  - Problem  
-----  
Has been reported to cause serious problems when running together with e.g. SuperView (when attaching a fixed ViewMode to the program).
  - Solution  
-----  
Already fixed for newer versions.  
I, personally, would strongly recommend not to promote any SuperView Screens via NewMode, since now for almost any configuration there should be suitable SVDivers - alternatively also a RTG-configuration for AGA.svdriver.
  - o SnoopDOS  
=====
  - Problem  
-----  
Some external libraries (being opened by SV modules) seem not to be snoop'able without causing crashes, then.
-

Solution

-----

Turn off SnoopDOS OR try disabling its library/loadseg snooping function and/or specify its "NOPATCHRAMLIB" option (via CLI/Tooltypes).

o VMM (supposed to be fixed)

=====

Former versions of SuperView-Library did allocate all buffers with the MEMF\_PUBLIC flag set, which prevented e.g. VMM from storing these as virtual memory on disk.

As with current versions, the large image buffers - where it makes sense - are no longer prevented from being accessing by VMM. MEMF\_PUBLIC no longer is set for these.

Before - and with old modules - this could have been by-passed by setting the 10240 flag value within VMM's advanced options - but this should not be done any longer, since it may become dangerous under certain circumstances.

o Shutdown

=====

Problem

-----

The program "Shutdown" (Aminet:util/misc/shutdown2\_3.lha) may cause SViewNG to crash at startup time under CyberGraphX, while under Picasso96 there did not occur any problems.

However, the bug does not seem to be in CGfx originally, since a recompilation (the source comes with Shutdown) with SAS/C 6.58 did fix it.

Solution

-----

Avoid using Shutdown (Olaf Barthel dropped development/support for this program several years ago, anyway) or make sure that you don't use it under CyberGraphX unless you've got your hands on a version that has been recompiled with a newer SAS/C version.

## 1.27 History

Please note the version-dependencies - with older versions you may encounter error messages like "version conflict":

|                   |           |             |             |
|-------------------|-----------|-------------|-------------|
| superview.library | SVObjects | SVDrivers   | SVOperators |
| Version 15-22     | Version 4 | Version 2-3 | Version 3   |

(superviewsupport.library V13)

V22.2 (20.02.1999) :

-----

- SVOjects: - RGFx: - (see there)
  - TIFF: - basic multi-image support
  - PNG: - (see there)
- NEW SVDdrivers: - CgxOverlay
  - !! BE WARNED !! This still is a beta version...
- Docs: - updated press feedback section
- Misc: - additional \$VER string to make everyone happy
  - etc. ;)

#### V22.1 (22.11.1998) :

- SVOperators: - (see Blur, Sharpen)
- added StackSwap code to library startup code;  
this should fix the very last stack-related crash problems
- added "known bugs" entry concerning the p5's Mk3 boards
- bumped main library version to V22
- bumped support library version to V13 (V13+ required now)
- Support-Library: - (see there)
- installer script now will no longer fail, if the libs/68030  
directory isn't present
- Note: V21.10 was not on Aminet

#### V21.10 (31.10.1998) :

- SVOjects: - EPS: - (see there)
- updated docs

#### V21.9 (5.10.1998) :

- SVOjects: - PNM: - fixed small bug
    - IMG: - (see there)
    - RGB8: - added RGBN support
  - SVDdrivers: - Window: - (see there)
  - SVPrefs: - doubleclicks now possible... (no more "Modify")
  - Installer: - localized some more texts (MCP, PPC)  
(-> Dámaso D. Estévez)
  - Misc: - added several new and updated translations by ATO
-

V21.8 (8.9.1998) :

-----

- SVOjects: - Unpack: - now supports .hqx extraction
- PNG, JPEG, TIFF: - (see there)
  
- Support-Lib: - (see there)

V21.7 (9.8.1998) :

-----

- SVOjects: - BMP: - (see there)

V21.6 (30.7.1998) :

-----

- NEW SVOjects: - Spectrum: - (ZX Spectrum files, see there)
  
- SVOjects: - PNM, C64: - (see there)
- BMP: - (see there)
- PNG: - fixed alpha+interlaced bug
- fixed grayscale+alpha bug
  
- SVDdrivers: - Window: - (see there)
  
- Misc: - added español translation by Dámaso D. Estévez <amidde@arrakis.es>
  
- Docs: - rewrote the docs section about 040/060 and math patch recommendations; don't patch your system worse !

V21.5 (5.7.1998) :

-----

- Prefs: - SVPrefs tended to crash from WB because of lacking a sufficient stack size in the icon

V21.4 (28.6.1998) :

-----

- Support-Lib: - added another, alternative viewmode generation routine (to be selected via preferences)
  
- Note: V21.3 was not on Aminet

V21.3 (27.6.1998) :

-----

- NEW SVOjects: - CVP: - for video/passphoto format
  
  - NEW SVDdrivers: - Window: - Window.svdriver for AGA/RTG
  
  - SVOjects: - MetaView: - added support for IFF-DSDR and (some) Win CLP files
  - PNG: - (see there)
  
  - Misc: - fixed the "STACKSIZE" entry in various .cpinfo files of SVOjects
-

- ECS/AGA/Window (now) have Dither24Bit as default for colorspace adjustment
  - JPEG.cpinf specified "PROGRESSION" option instead of "PROGRESSIVE", so saving progressive JPEGs might not have worked  
(-> Olivier Jeannet)
  - SVPrefs:
    - fixed slider/integer bug
    - fixed enforcer hits (see there)
  - Docs:
    - updated information on powerUP (TM) modules
    - fixed several bugs and mistakes, updated
    - see updated notes on SnoopDOS usage
- V21.2 (5.4.1998) :
- 
- SVObjects:
    - BMP:
      - added support for 32 bit files
      - fixed RLE 4/8 and OS/2 support
    - TIFF:
      - fixed and upgraded
      - 68k loader was screwed up to 90 ← percent
    - GhostScript:
      - added controlpad to allow changing stacksize (in case of ← crashes)
    - GPlot (CGM):
      - added controlpad to allow changing stacksize (in case of ← crashes)
      - changed way of calling the program
    - AmiFIG (FIG):
      - added controlpad to allow changing stacksize (in case of ← crashes)
      - changed way of calling the program
    - Limbo (LMB):
      - added controlpad to allow changing stacksize (in case of ← crashes)
      - changed way of calling the program
    - MetaView:
      - added controlpad to allow changing stacksize (in case of ← crashes)
      - changed way of calling the program
      - reading of CGM and FIG now can be redirected to MetaView, as well
    - PNG, JPEG:
      - upgraded
    - FAXX:
      - added note about problems with MultiFax files
    - Targa:
      - fixed several bugs
    - YUVN:
      - fixed several bugs
  - SVOperators:
    - RotateFree:
      - see there
  - SVDivers:
    - Picasso96:
      - fixed problem with 8/24 bit ← viewmodes
    - CyberGraphics:
      - see there
  - SVPrefs:
    - now can be used for changing controlpad settings
-

fromout the Shell or (ARexx) scripts, too

- Support-Lib:           - see there
- Locale:               - added lithuanian catalogs  
                          (-> Levas <savel@kaunas.omnitel.net>)
- Installer:            - it's now assumed that "SVPrefs" is  
                          in the search path, so the entry  
                          in s:user-startup no longer does include  
                          an absolute path  
                          (-> Tilo Hanich)
- Known bugs:           - added note about the "Shutdown" crash  
                          problem under CyberGraphX  
                          (-> Tilo Hanich)

#### V21.1 (6.3.1998) :

-----

- various Modules:      - updated to new .svm style PPC modules  
                          (completely redesigned with SAS/C)
- NOTE, THAT THE OLD MODULES WILL NO  
LONGER WORK, WHILE THE NEW MODULES  
WILL ONLY WORK WITH THIS VERSION  
AND UP! NEW MODULES ARE AVAILABLE  
UNDER Aminet:gfx/show/svppc211.lha
- SVOjects:             - Limbo: - the Limbo package now is  
                          available in a PPC version, on Aminet
  - SVOperators:         - PaletteDither, OptimizePalette,  
                          AnyTo24Bit, HilbertDither256:
- now with optional PPC support, too
  - AnyTo24Bit, HilbertDither256:
  - fixed small bugs (see there)

#### V20.1 (11.2.1998) :

-----

- SVOjects: - JPEG, PNG: - now with support for PPC native  
                          ELF loader/saver; incredible speedup
- TIFF, PICT: - dito, plus fixed some bugs
- V19.11 (1.1.98) accidentally still was labeled  
  V19.10 (27.12.97) internally
- updated Steve Quartly's 14 SQOperators to version 3.5.  
  They're now adjusted to the latest library specs, have  
  been improved and bug-fixed and all seem to have  
  decreased their file size a little bit  
  (-> supplied by Steve Quartly)



- Prefs: - (see there)
- Docs: - updated press feedback section
  - updated "known bugs" on PicassoIV with Picasso96
  - updated information on powerUP (TM) plugins for PPC in ELF format (ppc.library).

## V19.11 (1.1.1998) :

-----

- Note: V19.10 obviously was not on Aminet - not my fault
- SVOjects: - JPEG: - (see there)
- installer script did show the PPC warning message unconditionally, even without a PPC being present (this was left there from the testing phase). Fixed.
- Support-Lib: with a PPC, take care that C2P=SV is set (see there). Otherwise the PPC can't be utilized for c2p/p2c conversion.

## V19.10 (27.12.1997) :

-----

- Support-Lib: - MODEGEN was missing in .cpinfo file (thus also not accessible from SVPrefs)
- Docs: - updated info on ImageEngineer: Simon now has a new email and homepage
  - updated PMPro info
  - same for ScanQuix
  - updated the rest, too...

## V19.9 (24.12.1997) :

-----

- Note: V19.8 was not on Aminet
- NEW SVOjects: - TIM (PSX): - console graphics, as e.g. written by Personal Paint (!! BETA !!)
- SVOjects: - JPEG, PNG: - smarter, faster
  - BMP: - fixed bug in writing (4 bit, only)
- SVDdrivers: - CyberGraphics: - (see there)
- Support-Lib: - new preferences option for viewmode generation (-> Ramiro Garcia)

## V19.8 (8.12.1997) :

-----

- SVOjects: - AmiIcon: - fixed bug, that could make the system crash when sv-lib was loaded/flushed
-

V19.7 (6.12.1997) :

-----

- Note: V19.6 was not on Aminet
- SVDDrivers: - AGA, ECS: - fixed SetPatch-Bug (see there)
- SVOobjects: - RGFx: - fixed small bug
- Support-Lib: - fixed SetPatch-Bug (see there)

V19.6 (27.11.1997) :

-----

- SVOobjects: - RGFx: - (see there)
- Support-Lib: - (see there)
- Docs: - updated Pressfeedback section: CU Amiga granted "SuperView" 5 out out 5 stars in a very positive review article :-)

V19.5 (16.11.1997) :

-----

- NEW SVOobjects: - AmiIcon: - reading/writing Amiga icon (.info) files with either WB (4/8 color) or MagicWB (16 color) palette, supports NewIcons for > 16 colors

Note: Reading expliciteley needs to be enabled by a Controlpad setting switch!

- IFF-RGFx: - new graphics file format standard proposal for AGA/RTG Amigas now supported, too (see Aminet:dev/misc/IFF-RGFx.lha)
- SVOobjects: - C-Source: - now can write assembler source code as well
  - ILBM: - (see there)
  - SVG: - (see there)
- SVOoperators: - XOR: - (see there)
- Prefs: - (see there)
- Docs: - updated
  - updated infos on Scanner and Printer SVOobject

V19.4 (19.10.1997) :

-----

- SVDDrivers: - ECS, AGA: (see there)
- MISC: - added note about possible ppc.library and powerpc.library conflicts (when using the PPC-Modules) to the installer script: always use powerpc.library V7, when using one.

- BTW: the MCP and PPC notes in the installer script are not yet localized. Would be nice, if someone could do that.
  - updated polish catalog by Boguslaw Dziewierz <cut@localbar.com> Now placed in correct directory, with correct spelling (polski)
  - updated "Press feedback" section
  - updated information on english PMPPro in 3rd party section
- Prefs: - fixed small bug
  - new Wizard-GUI with lots of improvements done by Georg Rottlaender <Georg.Rottlaender@home.ivm.de>

### V19.3 (28.9.1997) :

-----

- Note: V19.2 was not on Aminet
- SVOobjects: - Printer: - now also supports TurboPrint for 8 Bit modes as well as EHB/HAM
  - added support for Wolf Faust's Studio printer system
- SVDdrivers: - ECS, AGA: - more fixes
- LIBRARY: - svsupport (see there)
- MISC: - added polish catalog by Boguslaw Dziewierz <cut@localbar.com>
  - added explicite note about ppc.library V44+

### V19.2 (21.9.1997) :

-----

- - SVPrefs
    - : - now finally with a wizard GUI, too
    - (-> Patrik Nydensten, and more)
- Crashes: - some people still reported, that SV-Library could crash #1 on startup; most often deleting all unused SVDdrivers did help. Since I could not find any related bugs, and the only SVDriver I don't maintain myself is OPAL.svdriver, it will now be moved to a new directory called "LIBS:svstorage" if it is not needed
  - the (unsupported) SVO.svobject and CyberDataType.svobject will be moved there, too
  - did the same for EGS7, PicassoII, MERLIN and Retina drivers, as well as Picasso96. All these drivers now are mutually exclusive - the only possible parallel use now is together with the CyberGraphX driver (since they fixed this nasty bug as with V1.27 or 1.28 AFAIK)
  - if you want to try parallel use nevertheless, just copy the files back from LIBS:svstorage/ to LIBS:svdrivers/
  - there's also the possibility to install these to LIBS:svdrivers/ and add their names to the file ENV:superview-library/svdrivers.exclude (respectively ENVARC:) ←
  - so that you can try to add them on demand (use "+" fromout SVPrefs)

- Crashes: - there's a Picasso96API.library replacement for CyberGraphX,  
#2 written by Steffen Haeuser. V20.0 does produce a couple  
of Enforcer hits when being opened.  
Solution: - remove it  
- or remove Picasso96.svdriver  
- upgrade to a bug-fixed version
- Crashes: - SVPrefs: ensuring, that ppc.library already is in memory,  
#3 before superviewsupport.library does try to open it  
(-> Frank Mariak)

## V19.1 (18.9.1997) :

-----

- SVDivers: - ECS, AGA: - (see there)
- MISC: - added francais catalog and installer script  
by Julien Wilk (wilkj@esiee.fr)  
and Pascal Rullier <rullier@triade.fr>
- Libs: - svsupport-lib: - (see there)
- Docs: - updated ATO credits
- PPC: - PPC modules 19.1 now are incompatible with ppc.library  
versions 44.8 and below. Since 18.x is incompatible  
with 44.9 and up, all previous buyers already did receive  
a free update, which again will work (44.20 recommended).  
- "DEEP\_Decode24" PPC module had a bug, maybe this could  
have caused occasional crashes. Fixed.  
- due to PPC changes, bumped main library versions to  
19 resp. 11

## V18.2 (5.9.1997) :

-----

- SVOjects: - PNG: - fixed some heavy bugs

## V18.1 (20.8.1997) :

-----

- general 'clean-up' release  
- thus bumped version
  - ALL SVOjects: - recompiled with SAS/C V6.58
  - ALL SVDivers: - recompiled with SAS/C V6.58
  - ALL SVOperators: - recompiled with SAS/C V6.58
  - SVDivers: - Picasso96, CyberGraphics,  
PicassoII, Retina  
- Picasso96 now 'out of beta stadium'
  - SVOjects: - SunRaster, SGI
-

- LIBRARIES:
  - superview.library,
  - superviewsupport.library:
  - recompiled with SAS/C V6.58
- LIBRARY:
  - if a SVOjects/Driver/Operator
  - can't be loaded (initialized),
  - the library now will give a
  - second try immediately, which
  - will help when memory is low
  - (when "avail flush" effect taking
  - place during library initialization)
- DOCS:
  - flushed, cleaned, fixed
  - all revision histories
  - updated 'press feedback' section
- MISC:
  - fixed PCD.cpinfo description
  - I am sick/tired/bored of getting
  - bug reports, which simply are caused
  - by \*MCP\* patching the system. It may
  - be a nice tool, but all patches should
  - work as reliable as the original...
  - So the installer script now does ask
  - you to disable the following MCP patches
  - (as long as still being buggy) when
  - using SuperView-Library:
    - new tooltypes
    - reqtols patch
    - onereq
    - library search
    - SetRGB32

Otherwise you may get: ramlib-crashes,  
odd address gurus, check instruction  
gurus or bad screen colors, ...

Thanks to the (big) number of people  
who told be about problems with MCP.

## 1.28 Printer.svobject

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Version : 4.8  
Release Date : 27.09.1997

Description

~~~~~

Printer.svobject is an external library module for superview.library.

It supports printing from any Screen (upto 256 Colors)

or graphics buffer (upto 256 Colors or 24 Bit).

The standard printer.device of AmigaOS does not support printing of 24 Bit graphics (rastports) upto version 3.0. There are two ways to pass this by:

- either dithering to 256 colors before printing the 24 Bit graphics (still looks ugly with standard printer drivers)
- OR installing TurboPrint V3 through V7 by IrseeSoft, which replaces printer.device greatly and besides improved 256 color printing also offers 24 Bit support
- OR installing the Studio Printer Software (Studio Professional II or any other Studio version like e.g. CanonStudio) by Wolf Faust, which consists of an external server program. Printer.svobject will write the graphics as either IFF-ILBM (upto 8 Bit) or PNG (24 Bit), and the Studio Server then will read the file, open its GUI and allow you to print it, while also being able to do some settings.

Printing without installed TurboPrint/Studio

Currently, all 24 Bit images will be dithered to 256 colors before printing (using the "Dither24Bit" operator).

Usually you get best results, when first applying "AnyTo24Bit" to a 256 color graphics and then call Printer.svobject from your application's DEVICE SVOBJECT list.

Printing with TurboPrint/Studio being installed

When printing 24 Bit graphics, TurboPrint/Studio will automatically be used when available. You can do all the necessary settings fromout their GUIs.

Credits

~~~~~

- o TurboPrint V7 does support most of the available printers and makes these useable with the Amiga. It improves AmigaOS' native printer drivers as well as adding 24 Bit capability to its printer.device.

In Germany, TurboPrint can be obtained directly from IrseeSoft, but they'll as well be able to tell you a distributor near you:

IrseeSoft SPCS  
Meinrad-Spieß-Platz 2  
D-87660 Irsee                      Voice: +49-(0)8341-74327  
Germany                              Fax:     +49-(0)8341-12042

IrseeSoft WWW page: <http://www.irseesoft.com>  
IrseeSoft: [mail@irseesoft.com](mailto:mail@irseesoft.com)

Or from any distributor. The official pricing as of December 1998

---

is been 149 DEM (no guarantee). Ask them for it.

IrseeSoft also are the manufacturers of the Picture Manager professional image catalogization system.

A CD-ROM containing catalogues of more than 25000 graphics from Amiga CD-ROMs as well as a full version of PM 2.0 and demo versions (german) of PMPro 4 and TurboPrint 5 is available for 29 DEM (no guarantee). It's the first one of a new CD-ROM series - the second one just has been released and does contain graphic catalogues for Aminet 1-16 and Aminet Set 1-4 CD-ROMs.

Thanks to Florian Zeiler for providing TurboPrint.

o Studio Professional II does support many printers, too.

In Germany, Studio 2.x can be obtained directly from arXon, but they'll as well be able to tell you a distributor near you:

```
arXon GmbH
Assenheimer Str. 17
D-60489 Frankfurt      Voice: +49-(0)69-978410-26
Germany                Fax:   +49-(0)69-978410-30
```

Or from any distributor. The pricing as of September 1997 has been about 109 DEM (no guarantee). Ask them for it.

Thanks to Wolf Faust for providing Studio and CanonStudio.

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/Printer.controlpad"
ControlPad-Commands : - DENSITY=<density value for printing quality>
                       ; Amiga's printer device does allow seven
                       ; modes of printing density (1-7)
                       ; (not with TurboPrint)
                       ; default is: 3
```

History

~~~~~

V4.8 (27.09.1997) :

- now also supports TurboPrint for 8 Bit modes as well as EHB/HAM
- added support for Wolf Faust's Studio printer system

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.29 Scanner.svobject

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Version : 4.8  
 Release Date : 14.08.1997

#### Description

~~~~~

Scanner.svobject is an external library module for superview.library.

It supports scanning images by using Andreas Günther's scanner.device, as supplied with the ScanQuix software package.

Currently, all scanned images are imported as 24 Bit.

Credits

~~~~~

ScanQuix currently supports more than 20 different scanner models:

| Vendor | Model                                                                  | Connection               |
|--------|------------------------------------------------------------------------|--------------------------|
| Epson  | GT-4000, GT-5000, GT-6000,<br>GT-6500, GT-8000, GT-8500,<br>GT-9000    | SCSI, serial or parallel |
| HP     | ScanJet 2c, 2cx, 3c, 4c,<br>4p, 5p                                     | SCSI                     |
| Mustek | Paragon 600, 600 SP,<br>600 II SP, 800 SP,<br>800 II SP, 1200, 1200 SP | SCSI                     |
| Artec  | ViewStation A6000C,<br>A6000C Plus, AT-3, AT-6                         | SCSI                     |

It is available from:

RBM Computertechnik  
 Bernd Rudolf <http://www.rbm.de/ScanQuix/>  
 Kleinenberger Weg 2a [info@rbm.de](mailto:info@rbm.de)  
 D-33100 Paderborn Phone: +49-5251-16191-9  
 Germany Fax: +49-5251-640655

As of December 1997, ScanQuix 4 was publicly offered for 179 DM.  
 For more information, please contact this company. For a special  
 "Artec&ScanQuix3" package you may contact AB Union under:  
[http://ourworld.compuserve.com/homepages/AB\\_Union/](http://ourworld.compuserve.com/homepages/AB_Union/)

#### ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/Scanner.controlpad"
 ControlPad-Commands : - PUBSCREEN_NAME=<PubScreenName>
 ; where the scanner drivers should open
 ; their windows (if not set or not available,
 ; the default Public Screen will be used).

History

~~~~~

V4.8 (14.08.1997) :

- recompiled with SAS/C 6.58

**1.30 AmiFIG.svobject**

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(Also see notes under "Credits".)

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Version : 4.8

Release Date : 02.04.1998

## Description

~~~~~

AmiFIG.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support, a working GhostScript.svobject and an installed fig2dev executeable.

It supports importing AmiFIG/Xfig vector drawings as bitmapped graphics. This is done by using fig2dev for conversion to Postscript (TM) files, which then will be parsed using a working Ghostscript installation with

```
GhostScript.svobject
```

.

Alternatively, you now can redirect FIG handling to

```
MetaView.svobject
```

.

AmiFIG.svobject will create a temporary file, which then will be parsed through superview.library again.

Reading :

(Any FIG drawings as long as the resulting Postscript (TM) commands are readable for Ghostscript).

Configuration

~~~~~

This FIG support module has been tested with:

- the AmiFIG 1.1 port from Aminet: AmiFIG is (C) 1996 Andreas Schmidt AND NOT YET, because of missing fig2dev:
- the Xfig 1.9d amiga port from AmiNet, which has been done by Terje Pedersen (terjepe@login.eunet.no)

At first, you have to correctly install and configure Ghostscript and

```
GhostScript.svobject
```

.

After that you have to install AmiFIG/Xfig and either supply an AmigaDOS

search path to a directory, where the executable "fig2dev" is stored (default), or explicitly specify path plus name of the program by the controlpad entry AMIFIG\_PATH (see below).

Where to DOWNLOAD from

~~~~~

Aminet:gfx/edit/Amifig#?.lha (#?=version and CPU)

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/AmiFIG.controlpad"

ControlPad-Commands : - STACKSIZE=<value>  
                           ; stacksize to be used for calling GPlot,  
                           ; increasing may help on crashes  
                           ; default is: 32768  
 - AMIFIG\_PATH=<fig2dev command path plus name>  
                           ; how fig2dev is to be called  
                           ; e.g. AMIFIG\_PATH=Work:AmiFIG/fig2dev  
                           ; default is: fig2dev  
 - STATUS=<ENABLED|DISABLED>  
                           ; allows to disable this module - for example  
                           ; to be able to use an other, program-specific  
                           ; import-module for the same file format

History

~~~~~

V4.8 (02.04.1998) :

- changed way of calling the program (SystemTagList), which may fix crashes on certain FIG graphics
- added possibility to increase stacksize, when necessary (crashes ?)
- now has a lower priority than MetaView.svobject which allows to redirect FIG file recognition (and processing). [see there]

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.31 Degas.svobject

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Version : 4.7

Release Date : 14.08.1997

Description

~~~~~

Degas.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It supports reading of Atari Degas files.

In detail these are :

Reading :

- uncompressed Degas PI1 320x200, 16 colors
- uncompressed Degas PI2 640x200, 4 colors
- uncompressed Degas PI3 640x400, 2 colors

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.32 ILBM.svobject

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Supports powerUP (TM).

Version : 4.16

Release Date : 16.02.1998

Description

~~~~~

ILBM.svobject is an external library module for superview.library,  
which needs any SVDriver with Bitplane-Support.

It supports reading and writing of IFF-ILBM files.

In detail these are :

Reading :

- IFF-ILBM uncompressed 1..8/24 bit
- IFF-ILBM CmpByteRunl compressed 1..8/24 bit

Writing :

- IFF-ILBM uncompressed 1..8/24 bit
- IFF-ILBM CmpByteRunl compressed 1..8/24 bit

Reading/writing from/to ClipBoard is supported.

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/ILBM.controlpad"

ControlPad-Commands : - ANIM_BODIES
; if set, ANIM files' ILBM-BODY chunk
; (first frame) will be extracted when
; such a file is encountered. Otherwise
; anim.datatype may do that task later.
; (not actually IFF-ILBM support: it's
; IFF-ANIM support)
- DRACO
; tries to avoid possible problems on

; the Draco computer (modeid generation)

History

~~~~~

V4.16 (16.02.1998) :

- changed for new .svm style PPC modules

V4.15 (16.11.1997) :

- transparency information might not have been exported correctly after reading (V2 gfxbuffer instead of V3)

V4.14 (14.08.1997) :

- recompiled with SAS/C 6.58

### 1.33 PBM.svobject

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Version : 4.9

Release Date : 16.02.1998

#### Description

~~~~~

PBM.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It supports reading and writing of IFF-PBM files, which originally only were written by Deluxe Paint II for the PC, when saving chunky 256 Color graphics.

In detail these are :

Reading :

- IFF-PBM uncompressed 8 Bit
- IFF-PBM CmpByteRunl compressed 8 Bit

Writing :

- IFF-PBM uncompressed 8 Bit (less than 256 colors will be
- IFF-PBM CmpByteRunl compressed 8 Bit increased to 256 colors)

Reading/writing from/to ClipBoard is supported.

History

~~~~~

V4.9 (16.02.1998) :

- changed for new .svm style PPC modules

V4.8 (14.08.1997) :

- recompiled with SAS/C 6.58

### 1.34 ACBM.svobject

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Version : 4.9

Release Date : 14.08.1997

Description

~~~~~

ACBM.svobject is an external library module for superview.library, which needs any SVDriver with Bitplane-Support.

It supports reading and writing of IFF-ACBM files.

In detail these are :

Reading :

- IFF-ACBM uncompressed 1..8 Bit

Writing :

- IFF-ACBM uncompressed 1..8 Bit

Reading/writing from/to ClipBoard is supported.

History

~~~~~

V4.9 (14.08.1997) :

- recompiled with SAS/C 6.58

### 1.35 Datatypes support

Loading Graphics via DataTypes under OS3

=====

In General

-----

The library generally also accesses OS3-Datatypes, if none of the installed SVObjects was able to identify a specific graphics file format.

Usually by default only DataTypes of class "picture" will be accepted.

This means, no Samples, Texts, AmigaGuide File or whatever else will be loaded and displayed via superview.library - by default.

But it is possible to enable these also - see configuration section

for more information on how to change settings - so that for example introduction pictures of ANIMs may as well be loaded.

#### Specific Problems

As you may have expected, it is as well possible to replace single SVOBJECTS by the corresponding Datatypes in case you think that the Datatype does work better or more reliable.

For temporarily enabling this, you would just have to "Remove" the SVOBJECT and load the Datatype.  
For permanently enabling this, you would have to delete the SVOBJECT from "LIBS:svobjects".

But remember, that DTs in general cannot export 24 bit Data and are not able to save any graphics (other than as IFF-ILBM).

Ralph Schmidt's picture.datatype V43 does allow loading of 24 bit pictures by enhancing the datatype system with additional functionality. To be able using these features with SuperView, you need a working installation of picture.datatype V43 (with ECS/AGA you'll also need a version of cyberncg.library, which had been removed from newer pic-dt 43 distributions).

The picture.datatype V43 which is coming with the Picasso96 Workbench Emulation RTG Software should work as well - any problems with this one should be reported to its author in the first place, though.

This also applies to any other, future picture.datatype V43 clones.

## 1.36 PCX.svobject

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Supports powerUP (TM).

Version : 4.9  
Release Date : 16.02.1998

#### Description

~~~~~

PCX.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading and writing of PCX files.
In detail these are :

Reading :

2-256 Colors, 24 bit. In detail:

- PCX V2.5 upto 16 Colors (supports 4/8 color EGA/VGA palette)
- PCX V2.8a upto 16 Colors (supports 4/8 color EGA/VGA palette)
- PCX V2.8b upto 16 GrayScales

- PCX V3.00 upto 256 Colors
- PCX V2.5 - V3.00 with 24 bit Data (see Remarks !)

Writing :

Depending on the Colordepth of the source the following is written :

Source Colors	Version	Type	Destination Colors
2 .. 16	PCX V2.8a	planar bitmap	16
32 .. 256	PCX V3.00	chunky pixel	256
(24 bit)	PCX V3.00	RGB planar	(24 bit)

For 2-256 Colors It is always tried, to write the files RLE-encoded, but if encoding is ineffective (output data nearly as large or even larger than input data), the files will be written unencoded. 24 bit files will currently only be written unencoded.

History

~~~~~

V4.9 (16.02.1998) :

- changed for new .svm style PPC modules

V4.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.37 Spectrum.svobject

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Version : 4.1  
Release Date : 30.07.1998

Description

~~~~~

Spectrum.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It supports reading of ZX Spectrum Graphics files.
In detail these are :

Reading :

Format	Dimensions	Colors
normal	256x192	16

Note

~~~~

Only files with a length of 6912 bytes plus the filename extension ".scr" will be recognized.

## History

~~~~~

V4.1 (30.07.1998) :

- first release

1.38 SVG.svobject

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Version : 4.8

Release Date : 16.11.1997

Description

~~~~~

SVG.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading and writing of SVG Graphics files, which is SuperView-Library's own graphics file format with XPK support.

In detail these are :

## Reading :

- SVG ONEPLANE 8/24 bit  
BITPLANE 1..8 Bit

## Writing :

- SVG ONEPLANE 8/24 bit  
BITPLANE 1..8 Bit

## ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/SVG.controlpad"

ControlPad-Commands : - PACKMETHOD=<xxxx>
; if this one is specified, it is tried to
; pack the resulting file with the specified
; XPK-Packer. If this fails, the file keeps
; unpacked.

File Format Information

~~~~~

As "Aminet:util/dtype/akSVG43x.lha" there's a separate package available, which consists of a "SVG.datatype" for applications not using SuperView-Library,

the description of the file format

and

a conversion tool "AnyToSVG" (using Datatypes upto 24 Bit).



History

~~~~~

V4.8 (16.11.1997) :

- fixed possible enforcer hit (writing XPK)

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.39 The SVG Graphics File Format Specification

=====

= The SVG Graphics File Format = - Version 1, draft version: 03.01.1997

=====

File Format Information

~~~~~

Pictures in the "SVG Graphics File Format" consist of two parts:  
a header and an attached xpk-packed or unpacked data file.

Both parts are put into one single file.

Construction (all fields in Motorola BYTE order):

|      |               |                |                                    |
|------|---------------|----------------|------------------------------------|
| 0x00 | ID            | UBYTE[18]      | "SVG Graphics File" + 0-Byte       |
| 0x12 | Version       | UWORD          | always 1 yet                       |
| 0x14 | GfxDataOffset | ULONG          | header length (depends on version) |
| 0x18 | LeftEdge      | ULONG          | as with e.g. ILBM                  |
| 0x1c | TopEdge       | ULONG          | ...                                |
| 0x20 | Width         | ULONG          | ...                                |
| 0x24 | Height        | ULONG          | ...                                |
| 0x28 | ColorDepth    | ULONG          | used colors as x of 2^x            |
| 0x3c | ViewMode32    | ULONG          | 32 Bit Amiga ViewMode              |
| 0x40 | PixelBits     | UBYTE          | 1, 8, 24 (future: 16, 32)          |
| 0x41 | PixelPlanes   | UBYTE          | # of planes with PixelBits         |
| 0x42 | BytesPerLine  | ULONG          | bpl of a PixelPlane                |
| 0x46 | ColorMap      | UBYTE [256][3] | unused, if > 256 Colors (zero-ed)  |

After that either follows XPK compressed data or uncompressed data, which can be detected by the leading chars "XPK" or "PP20" for packed data at GfxDataOffset (relative to beginning of the file).

Please note, that with upto 256 colors (Colordepth <= 8) it has to be checked, whether the graphics actually is EHB or HAM. Use the Viewmode32 field for these assumptions when reading, and maybe OR with HAM\_KEY or EHB\_KEY when saving.

Note:

-----

"Pixelbits" and Planes do allow a lot of combinations.

Actually used and supported by current software are only the following:

| Bits | Planes | Depth | Content                                |
|------|--------|-------|----------------------------------------|
| 1    | 1..8   | 1..8  | (unaligned Bitmaps with 2..256 colors) |
| 8    | 1      | 1..8  | (chunky Bitmaps with 2..256 colors)    |
| 24   | 1      | 24    | (24 Bit RGB Bitmaps with 8:8:8 RGB)    |

So 24 Bit Data should not be saved planewise, but as 24 Bit RGB instead.

If you ever should save any other data, please avoid any planar configurations and respect the following rules for RGB data chunks:

| Bits        | Planes | Depth | Content                                         |
|-------------|--------|-------|-------------------------------------------------|
| 16          | 1      | 15/16 | (15/16 Bit Bitmap with 5:5:5:1 RGB0/A)          |
| 32          | 1      | 24/32 | (24/32 Bit RGB Bitmaps with 8:8:8:8 RGB0/A)     |
| 48          | 1      | 48    | (48 Bit RGB Bitmaps with 16:16:16 RGB)          |
| 64          | 1      | 48/64 | (48/64 Bit RGB Bitmaps with 16:16:16:16 RGB0/A) |
| ... etc ... |        |       |                                                 |

Note, that an alpha channel can only be correctly identified, when "ColorDepth" is handled as an indicator, whether there actually is one, or not. Programs not supporting alpha channels should simply ignore the color depth and interpret "Bits=16 and Planes=1" as 5:5:5:0 RGB and "Bits=32 and Planes=1" as 8:8:8:0 RGB and so on...

Planar configuration actually only was thought for support of 2..256 color Bitmap contents. We all new, that actually 24 or more bitplanes are nearly unuseable and actually ugly to handle.

So please respect the "Planes" variable only being valid for values between 1..8 and only, if "Bits=1" has been set, also note, that with "Planes=1..8" you must set "ColorDepth=Planes", since other than with 8 Bit chunky there is no support of unused planes.

## 1.40 GPlot.svobject

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Version : 4.8  
Release Date : 02.04.1998

Description  
~~~~~

GPlot.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support, a working GhostScript.svobject and an installed GPlot executeable.

It supports importing CGM metafile vector drawings as bitmapped graphics. This is done by using gplot for conversion to Postscript (TM) files, which then will be parsed using a working Ghostscript installation with

GhostScript.svobject

Alternatively, you now can redirect CGM handling to


```

; default is: GPlot
- STATUS=<ENABLED|DISABLED>
; allows to disable this module - for example
; to be able to use an other, program-specific
; import-module for the same file format

```

History

~~~~~

V4.8 (02.04.1998) :

- changed way of calling the program (SystemTagList), which should fix some crashes on certain CGM graphics (-> Steven Taylor)
- added possibility to increase stacksize, when necessary (crashes ?)
- now has a lower priority than MetaView.svobject which allows to redirect CGM file recognition (and processing). [ see there ]

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.41 BMP.svobject

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Version : 4.15  
Release Date : 01.08.1998

#### Description

~~~~~

BMP.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading and writing of Windows (TM) and OS/2 (TM) BitMap files (BMP). Not all derivatives might be supported, though. Extraction of Bitmaps from RIFF-BMP files (DIB) also is possible.

In detail these are :

Reading :

Windows BMP: - unencoded in 1, 4, 8, 24, 32 bit colordepth
- RLE-encoded in 4, 8 bit colordepth

OS/2 1.x BMP: - unencoded in 1, 4, 8, 24 bit colordepth

Writing :

Depending on the Colordepth of the source the following is written :

Source Colors	Version	Type	Destination Colors
---------------	---------	------	--------------------

2	BMP (misc)	packed chk. pix.	2
4 .. 16	BMP (misc)	packed chk. pix.	16
32 .. 256	BMP (misc)	chunky pixel	256
(24 bit)	BMP (misc)	RGB pixel	(24 bit)

History

~~~~~

V4.15 (01.08.1998) :

- there are BMPs around, which don't just have a zero bitmap size given, but even a completely wrong one. Did a workaround by adding a plausibility check (24 bit only, yet - too difficult for the others, since compression doesn't allow to do guesses, here)  
(-> Don Paul)

V4.14 (28.07.1998) :

- fixed bug in memory handling (avoid freeing some data twice); did not occur yet

V4.13 (03.04.1998) :

- added support for 32 bit files (some strange Windows backdrops)  
(-> Andreas Friedrich)
- fixed reading of 4 and 8 bit RLE compressed graphics;  
IMHO all the available BMP file format docs are contradictory in parts, some even really buggy  
(-> Waldemar Scheu sent some graphics that did not work before)
- reading of OS/2 1.x BMPs did not work due to another error in the BMP specs and a few errors in my code  
(-> Waldemar Scheu sent a graphics that did not work before)
- etc.

V4.12 (16.02.1998) :

- changed for new .svm style PPC modules

V4.11 (23.12.1997) :

- long-standing bug: a 4 bit graphics (16 colors) with an odd width would have been distorted when writing. Fixed for 68k (temporarily fixed for PPC by falling back to 68k code for this rare case).

V4.10 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.42 Amilcon.svobject

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Version : 4.2  
 Release Date : 08.12.1997

Description  
 ~~~~~

AmiIcon.svobject is an external library module for superview.library, which needs any SVDriver with Bitplane-Support.

It supports reading and writing of Amiga Icon (.info) files.
 In detail these are :

Reading :

- plain 4/8 color icons
- 16 color icons with MagicWB palette

When newicon.library is present, it will be used for reading icons instead of icon.library. This means, the following types of icons are supported, too:

- NewIcons with a max. size of 93x93 and max. 256 colors

Writing :

- plain 4/8 color icons, using BEST PEN color adjustment
- 16 color icons with MagicWB palette, using BEST PEN color adjustment

When newicon.library is present, it will be used for writing icons instead of icon.library - as long as the icon size is smaller or equal than 93x93. With newicon.library 40.1 also a minimum of 32 colors is required to actually activate the "newicon" mode. This means, the following types of icons are written, too:

- NewIcons with a max. size of 93x93 and 32..256 colors, additionally containing the corresponding plain or MagicWB icon data

Note

~~~~~

Reading explicitly needs to be enabled  
 by a Controlpad setting switch!

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/AmiIcon.controlpad"

ControlPad-Commands : - ICON_DEPTH=<colordepth>
 ; Depth of icon to be saved.
 ; Also: WB (depth=2-3, 4-8 colors) or
 ; MagicWB (depth=4, 16 colors) ?
 ; default is: 2
 - ICON_TYPE=<DISK|DRAWER|TOOL|PROJECT|GARBAGE>
 ; Type of icon to be saved.
 ; default is: PROJECT
 - ICON_TOOL=<program name>
 ; The default tool of the icon to be saved.
 ; default is: "InsertHere" ;)
 - WRITE_NEWICON=<ON|OFF>

```

        ; Write NewIcons, when there is newicon.library
        ; available ?
        ; Default is: ON
- READ_SUPPORT=<ON|OFF>
        ; Allow reading of icons at all ?
        ; Default is: OFF

```

History

~~~~~

V4.2 (8.12.1997) :

- fixed bug, which could make the system crash (broken semaphore ?)
- also, now opening newicon.library when needed, no longer in startup-code (would have caused a crash when e.g. running SnoopDos3 in parallel)

V4.1 (13.11.1997) :

- first version

### 1.43 WinIcon.svobject

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Version : 4.7  
Release Date : 14.08.1997

#### Description

~~~~~

WinIcon.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It supports reading of W*nd*ws V3.x (TM) Icon files.
In detail these are :

Reading :

- WinIcon files with exactly 16 Colors
(more than one Icon per file should work, but hasn't been tested yet.)

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

### 1.44 FBM.svobject

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(Also see notes under "Credits".)

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Version : 4.7  
Release Date : 14.08.1997

Description  
~~~~~

FBM.svobject is an external library module for superview.library,
which needs any SVDriver with Oneplane-Support.

It supports reading and writing of FBM (*nix) files.
In detail these are :

Reading :

- FBM 8 Bit x 1 Plane: 2..256 Colors/256 Grayscales
- FBM 8 Bit x 3 Planes: 24 bit

Writing :

- FBM 8 Bit x 1 Plane: 2..256 Colors/256 Grayscales
- FBM 8 Bit x 3 Planes: 24 bit

Following to the specifications, a 2..128 color file takes as much
space as a 256 color file: always 8 Bits are written.
Only the colormap is sized differently for different colordepths.

History
~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.45 Limbo.svobject

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(Also see notes under "Credits".)

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Supports powerUP (TM).

Version : 4.9  
Release Date : 02.04.1998

\*\*\* THIS ONE IS REALLY EXPERIMENTAL - IT WORKS, BUT REQUIRES  
A LOT OF MEMORY AND A FAST PROCESSOR.  
DO NOT SAVE IMPORTANT DATA AS LIMBO/LMB. IT'S HIGHLY LOSSY! \*\*\*

Description  
~~~~~

Limbo.svobject is an external library module for superview.library,
which needs any SVDriver with Oneplane-Support and an installed
Limbo 4.0 executeable.

It supports importing Limbo 4.0 fractal-compressed bitmapped graphics.

This is done by using Limbo for conversion of LMB files to temporary PNM files, which then will be parsed through `superview.library` again. Exporting is supported by creating temporary PNM files, which then will be converted to LMB files via Limbo.

A VMEM: assignment is needed to be present to allow doing the temporary file and directory management.

So it supports reading and writing of Limbo 4.0 files.
In detail these are :

Reading :

(Limbo 4.0 fractal-compressed files, as far as supported by the used Limbo program.)

Writing :

(Any input will be converted to 24 Bit, which then will be converted to Limbo 4.0 fractal-compressed files, by the Limbo program.)

Configuration

~~~~~

This Limbo support module has been tested with the Limbo 4.0 port from `Aminet:gfx/conv`, which was based on a version developed by Carsten Frigaard, Jess Gade, Thomas Therp Hemmingsen and Torben Sand in 1993/94 on Aalborg University, Denmark.

At first you have to install Limbo by simply copying it into a directory where you like it to reside.

You also have to either supply an AmigaDOS search path to a directory, where the executable "Limbo.68000" is stored (default), or explicitly specify path plus name of the program by the controlpad entry `LIMBO_PATH` (see below).

There's now also a PPC version available, which can be utilized when the `LoadSegPatch` of `ppc.library` has been installed (so that the ELF modules can be loaded and started as regular programs).

Where to DOWNLOAD from

~~~~~

`Aminet:gfx/conv/Limbo.lha` (68k version)
`Aminet:gfx/conv/PPCLimbo.lha` (PPC version; with `LoadSegPatch`, only)

ControlPad-Switches

~~~~~

`ControlPad-Name` : "ENV:SuperView-Library/Limbo.controlpad"

`ControlPad-Commands` : - `STACKSIZE=<value>`  
; stacksize to be used for calling GPlot,  
; increasing may help on crashes  
; default is: 32768  
- `LIMBO_PATH=<Limbo command path plus name>`  
; how Limbo is to be called  
; e.g. `LIMBO_PATH=Work:Limbo/Limbo.68030.881`  
; default is: `Limbo.68000`

---

```
- STATUS=<ENABLED|DISABLED>
; allows to disable this module - for example
; to be able to use an other, program-specific
; import-module for the same file format
;
; DECODING settings
; *****
- DECODE_ITERATIONS=<number>
; option -i of Limbo 4.0
; default is: 6
- EXPANSION_LEVEL=<number>
; option -l of Limbo 4.0
; default is: 0
- DECODE_VERBOSE=<ON|OFF>
; Should decoding output be sent to stdio ?
; default is: OFF
;
; ENCODING settings
; *****
- EXPANSION_LEVEL=<number>
; option -l of Limbo 4.0
; default is: 0
- MIN_RANGE_BLOCKSIZE=<number>
; option -b of Limbo 4.0
; default is: 4
- DOMAIN_SLIDE_BLOCKSIZE=<number>
; option -d of Limbo 4.0
; default is: 8
- MIN_COMPARE_DOMAIN_BLOCKS=<number>
; option -m of Limbo 4.0
; default is: 4
- MAX_COMPARE_DOMAIN_BLOCKS=<number>
; option -s of Limbo 4.0
; default is: 10
- FEATURE_SPACE_DIMS=<number>
; option -f of Limbo 4.0
; default is: 3
- GRID_DIV_RES=<number>
; option -r of Limbo 4.0
; default is: 1000
- QUADTREE_LEVEL=<number>
; option -n of Limbo 4.0
; default is: 0
- TRESHOLD_SPLIT=<number>
; option -Tm of Limbo 4.0
; default is: 100
- TRESHOLD_CLASS=<number>
; option -Te of Limbo 4.0
; default is: 50
- TRESHOLD_POST=<number>
; option -Tp of Limbo 4.0
; default is: -1
- ENCODE_VERBOSE=<ON|OFF>
; Should encoding output be sent to stdio ?
; (recommended, since encoding is
; _extremely slow_)
; default is: ON
```



```

; a RAW data file, which cannot be loaded
; with superview.library again, but may be
; used for different purposes
; Default: (not set)

```

#### History

~~~~~

V4.9 (03.10.1998) :

- fixed problem concerning graphics with multiple comment lines (-> Waldemar Scheu)

V4.8 (06.07.1998) :

- fixed small, bug source in writer code (obviously not a problem with SAS/C, but...)
- fixed history: was V4.7, now is 4.8

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.47 PNG.svobject

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(Also see notes under "Credits".)

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Version : 4.23
Release Date : 20.02.1999

Description

~~~~~

PNG.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It supports reading of Portable Network Graphics (PNG - pronounce it "PiNG", if you like ;-)) files.

In detail these are :

Reading :

- 8 Bit color mapped files
- any grayscale images, 16 Bit derivatives scaled down to 8 Bit
- True color files (24/48 Bit, alpha channel ignored) as 24 bit (so 48 Bit 16:16:16 will be cut down to 24 Bit 8:8:8)

So the following types of PNG images (all valid ones) should be imported in the described way:

| Bit depths | Interpretation               |
|------------|------------------------------|
| -----      | -----                        |
| 1,2,4,8,16 | pixels are grayscale samples |

8,16            pixels are R,G,B triple samples

1,2,4,8        pixels are palette indices

(plus variations with - here ignored - alpha channel)

Writing :

- 8 Bit color mapped files
- True color files (24 Bit)

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/PNG.controlpad"

ControlPad-Commands : - PNG8_TRANSPARENCY=<ON|OFF>
 ; whether 8 Bit PNGs should contain
 ; transparency information
 ; Default: OFF
 - PNG8_TRANSPARENT_COLOR=<0..255>
 ; Default color to be enabled and set
 ; (graphics control extension block)
 ; Default: 0
 - Z_COMPRESSION=<0..9>
 ; allows changes in compression/speed.
 ; 0 results in uncompressed data, 9 compresses
 ; best, but increases decompression time.
 ; Default: 6
 - SAVE_INTERLACED=<ON|OFF>
 ; Save image as interlaced (progressive) ?
 ; Default: OFF

History :

~~~~~

V4.23 (20.02.1999) :

- upgraded to libpng 1.0.3

V4.22 (06.09.1998) :

- smaller, faster

V4.21 (30.07.1998) :

- all changes: fixed for 68k with this version, fixed for PPC in PPC-V21.6
- upgraded to zlib 1.1.3
- loading `_interlaced_` alpha channel images (e.g. 32 bit = 24 bit plus 8 bit alpha channel) would not have worked correctly
- long-standing bug: gray scaled images (in 8 or 16 bit) `_with_` 8 or 16 bit alpha channel would not have been read correctly; some strange kind of colored true color image would have been exported. On the PPC side, even crashes (through damaged memory list) were possible. Perhaps the same problems could have happened with 8 bit colormapped files plus alpha channel, not sure

V4.20 (27.06.1998) :

- upgraded to libpng 1.0.2
- there was a small bug in writing PNGs:  
files with 1..256 colors always would have been  
written as 8 bit (256 color) files, resulting in  
slightly bigger file sizes with 1..128 graphics.  
Now you may save some more bytes...  
(-> Christian Beck, originally concerning PNG-Box)
- fixed bug introduced with PPC support;  
in 68k mode (loader) an already opened file  
handle would have been overwritten another time,  
thus the first one never would have been  
released - thus the opened PNG file could  
no longer be deleted  
(-> Torsten Jung)

V4.19 (30.03.1998) :

- upgraded to libpng 1.0.1 and zlib 1.1.2
- using libmoto.a for PPC part now (faster)

V4.18 (16.02.1998) :

- changed for new .svm style PPC modules

V4.17 (11.02.1998) :

- added support for PPC native ELF plugin module, allowing  
to speed up loading and saving incredibly with powerUP (TM)
- PNG core now single-threaded due to problems with reentrancy
- upgraded to libpng 0.99 and zlib 1.0.8

V4.16 (23.12.1997) :

- faster, smarter

V4.15 (05.09.1997) :

- 'interlaced' switch was ignored, when there was no  
'z\_compression' switch
- saving progressive PNG did not work at all
- writing transparent PNG was heavily buggy (wrong/no chunk content)
- reading transparent PNG was heavily buggy (wrong/no chunk content)

V4.14 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.48 C64.svobject

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(Also see notes under "Credits".)

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Version : 4.8

Release Date : 09.07.1998

## Description

~~~~~

C64.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It supports reading of C64 Graphics files (Koala, Doodle).
In detail these are :

Reading :

Format	Dimensions	Colors
Doodle	320x200	2/16
Koala	160x200 -> 320x200	4/16

History

~~~~~

V4.8 (09.07.1998) :

- "Doodle" was reported to be "Koala"

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.49 CDR.svobject

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Version : 4.7  
Release Date : 14.08.1997

## Description

~~~~~

CDR.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support and BMP.svobject to be present.

It supports reading of the previews which may be part of CorelDraw .CDR files (e.g. with version 4) - these are related with plain Windows BMP files, so that CDR.svobject will extract the graphics data, create a temporary file, write it as a BMP file and then parse it through superview.library again.

(See documentation of BMP.svobject for which BMP derivatives currently are supported).

Reading :

(Any contained preview, as long as the specific contained BMP derivative is supported by superview.library).

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.50 CVP.svobject

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Version : 4.1

Release Date : 07.06.1998

Description

~~~~~

CVP.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It supports reading of CVP (passphoto) files.

In detail these are :

Reading :

24 bit CVP files (taken with a video camera, output done with a video printer, put onto a disk)

Notes

~~~~~

CVP files must have the extension ".CVP" and a size of exactly 786432 bytes - otherwise they won't be recognized.

Credits

~~~~~

Thanks to Manfred Hoffmann for a sample CVP graphics and an arexx script that built the base for my own decoder.

History

~~~~~

V4.1 (07.06.1998) :

- first release

## 1.51 IMG.svobject

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Version : 4.8

Release Date : 04.10.1998

Description

~~~~~

IMG.svobject is an external library module for superview.library, which needs any SVDriver with Bitplane-Support.

It supports reading of IMG (GEM/Metafile) files. In detail these are :

Reading :

- IMG (16 byte header) grayscale (1..8 bits = 2..256 scales)
- IMG (18 byte header) grayscale (1..8 bits = 2..256 scales)

History

~~~~~

V4.8 (04.10.1998) :

- removed some unused code
- fixed memory handling

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.52 TIFF.svobject

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(Also see notes under "Credits".)

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Version : 4.14

Release Date : 03.01.1999

Description

~~~~~

TIFF.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading and writing of TIFF-files (V5.0).

In detail these are :

Reading :

Compression types (as far as known):

- uncompressed
- NeXT (2-bit RLE)
- Mac PackBits
- Thunderscan RLE
- CCITT Group 3 Fax
- CCITT/3 1D (Huffman RLE)
- CCITTRLEW (word-aligned uncompressed)
- JPEG (decompression not possible)

...and maybe more. LZW is not supported, though.

Bit depths:

Pixelbits	Planes	=> resulting Bit Depth

1	1	1	
1	x	x	(Mac Packbits only)
4	3	12	(imported as 24 Bit)
8	1	8	(256 colors or gray)
8	3	24	
8	4	24	(24 Bit + alpha Channel)

Writing :

Depth	written as
<= 256 colors (24 bit)	Motorola (MM), None, 8, 1 Motorola (MM), None, 8, 3

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/TIFF.controlpad"
ControlPad-Commands : - PAGENUMBER=<0..n>
                      ; number of image to be displayed
                      ; (e.g. for TIFFs with image directories
                      ; or multi-page FAX documents)
```

History

~~~~~

```
V4.14 (03.01.1999) :

- added multi-image support, intentionally for multi-page
  FAX documents
  (-> Martin Ruston)

V4.13 (06.09.1998) :

- smaller, faster

V4.12 (30.03.1998) :

- upgraded to libtiff 3.4beta037
- no more debugging output; should fix some strange crashes
  (-> thanks to Steve Taylor for pointing me to this)
- 68k TIFF loader was almost completely screwed up;
  with most images it would have been caught in an endless
  loop and crashed very quickly

V4.11 (16.02.1998) :

- changed for new .svm style PPC modules

V4.10 (11.02.1998) :

- added powerUP support (optional)
- single-threaded

V4.9 (14.08.1997) :
```

- recompiled with SAS/C 6.58

1.53 EPS.svobject

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(Also see notes under "Credits".)

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Version : 4.8

Release Date : 16.11.1998

Description

~~~~~

EPS.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support and TIFF.svobject (respectively GhostScript.svobject) to be present.

It allows two operations, depending on controlpad preferences settings:

- extraction of the trailers/previews which may be part of EPS(F) files. This usually will be TIFF graphics, but it makes no matter, which file format actually is included, because EPS.svobject will create a temporary file, which then will be parsed through superview.library again.  
(See documentation of TIFF.svobject for which TIFF derivatives currently are supported).
- extraction of the Postscript (TM) part of EPS(F) files, which then, in form of a temporary file, will be parsed through superview.library (and perhaps also GhostScript.svobject) again.

Reading :

- Any contained trailers/previews/thumbnails, as long as the specific contained file format - if any - is supported by superview.library
- Postscript (TM) as far as supported by the installed Ghostscript implementation

Writing:

- EPS files with Postscript (TM) image content, without TIFF header (only from 24 bit sources -> use the AnyTo24Bit operator).

The graphics will NOT be vectorized - instead a bitmap-like representation of it will be translated into Postscript (TM) format.

Remarks

~~~~~

Please note, that the Encoding Routines of the Library are not (yet) fully re-entrant, so that only one Task may Encode a picture at a time. The Library itself manages it, that the other Task has to Delay() until the Encoding Routines are "free" again.

ControlPad-Switches

```

~~~~~
ControlPad-Name      : "ENV:SuperView-Library/EPS.controlpad"
ControlPad-Commands : - EXTRACTMODE=<HEADER|PS>
                      ; Determines, whether the preview image or
                      ; the Postscript (TM) part should be extracted,
                      ; while parsing the Postscript (TM) part requires
                      ; a working Ghostscript installation with
                      ; GhostScript.svobject being correctly configured
                      ; default is: HEADER
- NO_EPS_HEADER
  ; if this option is set, the EPS file will be
  ; written without EPS header, thus turn into a
  ; plain P*stscript file; useful for sending
  ; it directly to the printer or for use with
  ; FinalWriter, WordWorth, TurboPrint
- SAVE_ROTATE=<ON|OFF>
  ; by default, the picture seems to be rotated
  ; with Postscript (TM) output of this module.
  ; Enabling SAVE_ROTATE will again re-rotate it to
  ; the original position.
  ; default is: OFF
- SAVE_CENTER=<ON|OFF>
  ; centers the images on the page with the
  ; desired size of SAVE_WIDTH x SAVE_HEIGHT (or not)
  ; default is: ON
- SAVE_RLE=<ON|OFF>
  ; allows to apply RLE compression to the
  ; PS output
  ; default is: OFF
- SAVE_DPI=<value>
  ; DPI value to use for the output
  ; default is: 300
- SAVE_WIDTH=<value>
  ; Width of the PS page
  ; default is: 612
- SAVE_HEIGHT=<value>
  ; Width of the PS page
  ; default is: 762

```

History

~~~~~

V4.8 (16.11.1998) :

- saving of EPS header now can be switched off (resulting in pure P\*stscript)
  - (-> Florian Zeiler)

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.54 Winlcon.svobject

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Version : 4.7  
Release Date : 14.08.1997

Description  
~~~~~

WinIcon.svobject is an external library module for superview.library,
which needs any SVDriver with Oneplane-Support.

It supports reading of W*nd*ws V3.x (TM) Icon files.
In detail these are :

Reading :

- WinIcon files with exactly 16 Colors
(more than one Icon per file should work, but hasn't been tested yet.)

History
~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.55 TIM.svobject

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Version : 4.1  
Release Date : 23.12.1997

Description  
~~~~~

TIM.svobject is an external library module for superview.library,
which needs any SVDriver with Oneplane-Support.

It supports reading of TIM (PSX) files.
In detail these are :

Reading :

- 16 color TIM
- 256 color TIM
- 15 bit TIM (imported as 24 bit)
- 24 bit TIM

Disclaimer
~~~~~

Note: Only files with the extension ".TIM" will be recognized.

Disclaimer  
~~~~~

Since there - aren't any developer docs for TIM and PSX freely available,
reverse engineering of the file format was the only possible way ↔
to
support this graphics standard.

- was no PSX available (and reading from original PSX CD-ROMs would have caused other legal problems), we did the complete programming and testing with an other third party program: PPaint 7.1 is able to read and write PSX graphic files.

This made it possible to read and write TIM files without ever getting in touch with any PSX native, copyrighted stuff.

History

~~~~~

V4.1 (23.12.1997) :

- initial release (!! BETA !!)

## 1.56 GhostScript.svobject

© 1996-98 by Andreas R. Kleinert.

(Also see notes under "Credits".)

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Version : 4.10

Release Date : 01.04.1998

#### Description

~~~~~

GhostScript.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support and PNG.svobject to be present.

It supports importing Postscript (TM) language and PDF files as bitmapped graphics. This is done by using Ghostscript for conversion, giving a DPI resolution and a description code for one of the supported output file format, like e.g. PNG.

GhostScript.svobject will create a temporary file, which then will be parsed through superview.library again.

(See documentation of PNG.svobject for which PNG derivatives currently are supported).

Reading :

(Any Postscript (TM) and PDF files as long as readable for Ghostscript).

Configuration

~~~~~

This Ghostscript support module has been tested with the Ghostscript 3.53 and 4.03 ports from Aminet, with amiga driver & no ixemul.library: Aladdin Ghostscript is Copyright (C) 1989, 1995 Aladdin Enterprises. All rights reserved.

Recommended is V5.01 or greater, Ghostscript 2.6.1 may work, if you don't use PNG as output file format.

At first, Ghostscript must have been successfully installed, and working (test it via command line access).

For enabling Ghostscript support, you either have to supply an AmigaDOS search path to a directory, where the executable "gs000" is stored (default), or explicitly specify path and/or name of the program by the controlpad entry GS\_PATH (see below).

But as mentioned before, Ghostscript has to be installed and set-up first.

#### Setting-up Ghostscript

~~~~~

Since the documentation of some Ghostscript versions is anything-but-not-very-verbose I decided, to shortly explain here, what steps to perform to successfully install Ghostscript on your system:

- unpack Ghostscript to where you wish it to be located at (e.g. "Work:Ghostscript/")
- make an assign "Ghostscript:" to that Ghostscript directory (e.g. put the line "Assign Ghostscript: Work:Ghostscript" into your "S:User-Startup")
- assign PSFonts: to your postscript font directory (anywhere) (e.g. put the line "Assign PSFonts: Work:Ghostscript/Fonts" into your "S:User-Startup", if that font directory already does exist there)
- create some environment variables in ENV: and ENVARC: which have to look as follows (respecting upper and lowercase):

Variable	Content	Remark
GS_FONTPATH		*NOT* to be created (do delete)
GS_LIB	PSFonts:	
GS_OPTIONS		create, but leave *EMPTY* (blank)
GS_DEVICE	amiga	

- create a file "PSFonts:FONTMAP" with at least the following lines:

```
% fontmap aka Fontmap
% -----
/Times-Roman          (ptmr.gsf)      ;
/Times-Italic         (ptmri.gsf)     ;
/Times-Bold           (ptmb.gsf)      ;
/Times-BoldItalic    (ptmbi.gsf)     ;
```

The single ps fonts are assigned via the FONTMAP. For fonts used by ps files there must be an entry to allow interpretation of these files, but basically each font can easily substituted by an other.

It does not matter, which font files are assigned for which fontname; in general entries within the FONTMAP file at "PSFonts:" just have to go conformeous with the following scheme:

```
/Fontname          (Filename)      ;
```

for example

```
/Helvetica          (Helvet.pfb)      ;
```

This means that the corresponding files must actually exist.
But one also may substitute fonts symbolically by other fonts
(to be understood like an alias or replacement font as known
from Windows (TM) for "Arial" and "Helvetica") like for example:

```
/Helvetica_Bold     /Helvetica      ;
```

Remarks

~~~~~

- if special versions for specific CPUs do crash, then try versions for "smaller" CPUs (e.g. 68000 version instead of 040+FPU version).
- please note, that setting DPI to higher values does not necessarily increase image quality, but memory usage (default is DPI=72). Same is to mention for the output colordepth: 256 colors give better results, when you've to perform dithering.
- files to be recognized must either have the standard Postscript (TM) header (containing '%!PS-Adobe' in it) or have the file extension ".ps" and begin with '%' (containing instructions for GhostScript).
- PDF files are also supported (extension ".pdf" and beginning with '%'), but having the correct and needed fonts installed is more critical for these. Had not enough fonts to successfully test loading of any of these.
- error output of Ghostscript still is directed to `stdio/Output()`, so problems may be visible transparently

#### Where to DOWNLOAD from

~~~~~

Aminet:gfx/show/gs#?.lha (#?=version, CPU and archive content)

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/GhostScript.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
                       ; stacksize to be used for calling Ghostscript,
                       ; increasing may help on crashes
                       ; default is: 32768
- GS_PATH=<gs command path plus name>
  ; how Ghostscript is to be called
  ; e.g. GS_PATH=Ghostscript:gs000
  ; default is: gs000
- OUTPUTMODE=<PNG256|PNG24BIT|OTHER>
  ; Output file format to be used
  ; (-sDEVICE parameter of Ghostscript's gs).
  ; Only PNG supported yet.
  ; default is: PNG256
- OTHER_OUTPUTMODE=<pcxmono|pcxgray|pcx16|pcx256|
                    pcx24b|tiffcrle|tiff24nc|
                    pngmono|pnggray|png16|png256|
                    png16m|bmpmono|bmp16|bmp256|
```



```

                                bmp16m>
                                ; If OUTPUTMODE=OTHER has been set, the string
                                ; specified here will directly be passed as
                                ; Ghostscript's "-sDEVICE" parameter
                                ; default is: png256
- DPI=<value>
                                ; DPI value to use for the converted output
                                ; (-r parameter of Ghostscript's gs)
                                ; default is: 72
- STATUS=<ENABLED|DISABLED>
                                ; allows to disable this module - for example
                                ; to be able to use an other, program-specific
                                ; import-module for the same file format

```

#### History

~~~~~

V4.10 (01.04.1998) :

- added possibility to increase stacksize, when necessary (crashes ?)
- improved interfacing/error handling with Ghostscript

V4.9 (14.08.1997) :

- recompiled with SAS/C 6.58

1.57 Targa.svobject

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Supports powerUP (TM).

Version : 4.12
Release Date : 02.04.1998

Description

~~~~~

Targa.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading and writing of TGA (Truevision Targa) files.  
In detail these are :

#### Reading :

| Colors   | Depth | Organisation                | RLE-Compression |
|----------|-------|-----------------------------|-----------------|
| 1        | 1     | planar monochrome           | supported       |
| 256      | 8     | chunky pixel (colors/gray)  | supported       |
| 32768    | 16    | "HighColor 15/16 Bit" Pixel | supported       |
| (24 bit) |       | BGR-Pixel                   | supported       |

#### Writing :

Depending on the Colordepth of the source the following is written :

| Source Colors        | Type                                          | Destination Colors |
|----------------------|-----------------------------------------------|--------------------|
| 2 .. 256<br>(24 bit) | Uncompressed chunky pixel<br>Uncompressed BGR | 256<br>(24 bit)    |

## Remarks

~~~~~

- PaintShop (3.0) and PaintShopPro (2.01) seem to write Targa files with a bad colormap (the same does apply to PixView 1.8, which perhaps was programmed using PaintShop files for testing).

Corel PhotoPaint 4.0 crashed when opening one of these, PPaint 7.0 and Targa.svobject did import a strange gray palette instead of the real one. PaintShop(Pro) however seems to be able to read SuperView-Library written Targa files correctly.

Anyway, PaintShop(Pro) here does not seem to conform to the specs - I've tried everything to extract the real colormap from the written one, but it's simply too strange. It claims to be a 3x8 BGR colormap, but it must be something else that fits into 24 bit (I've tried nearly everything and it did not work, though). So, be careful - use some other file format when exchanging data with PC people that may like to use PaintShop(Pro).

- 32 Bit graphics files are not supported yet
- The flags for "mirroring" Images vertically and/or horizontally are not fully interpreted yet, nevertheless these will be reported by SVL_FileInfoRequest()
If the VERTINV flag is not set, the picture will be assumed to be written as "from bottom to top", otherwise as "from top to bottom". Some programs do not set these flags right, when writing, so that you might get just the opposite result as expected.
The HORIZINV flag is currently ignored: when reading such a picture as usual, you'd get a mirrored image. But this flag is also set wrong sometimes ...

History

~~~~~

V4.12 (02.04.1998) :

- due to a bad check in the file recognition routine (introduced with a bug fix some time) colormapped Targa files written by this SVObject were not recognized and loaded by it any longer; this did affect other Targa files of the same kind, too (-> Waldemar Scheu)
- fixed another (logical) bug in file recognition routine
- colormapped Targa files had a RGB instead of BGR colormap when being written (didn't I fix this already a zillion times ?!)
- when reading colormapped Targa files, their BGR colormap would have been interpreted as RGB colormap (same as above, consequently)
- added support for 16/32 bit (2/4 byte) colormaps (just followed the specs; not tested, though - report any bugs)
- added note about garbage PaintShop/PixView targa files
- fixed bug in little/big endian conversion, which (yet) did not have had any effects (luckily)
- fixed a bunch of other things

V4.11 (16.02.1998) :

- changed for new .svm style PPC modules

V4.10 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.58 MetaView.svobject

© 1996-98 by Andreas R. Kleinert.

(Also see notes under "Credits".)

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Version : 4.10

Release Date : 07.04.1998

Description

~~~~~

MetaView.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support, a working ILBM.svobject and an installed MetaView executeable with CLI interface.

It supports importing WMF (also embedded in Win CLP), AMF, IFF-DR2D, IFF-DRSF, DXF ↵
and WPG vector drawings as bitmapped graphics. Optionally also FIG and CGM ↵
graphics
may be handled through MetaView instead of using the default methods for CGM (↵
GPlot.svobject
)
and FIG (↵
AmiFIG.svobject
).

This is done by using MetaView for conversion of WMF (Windows Meta File) or Windows CLP, AMF (Amiga Meta File), IFF-DR2D, IFF-DRSD (DrawStudio), DXF (CAD ↵
) or WPG
vector files (optionally also FIG and CGM files) to IFF-ILBM files, which then ↵
will be
parsed through superview.library again using
ILBM.svobject
.

Reading :

(Any WMF, Win CLP, AMF, IFF-DR2D, IFF-DRSD, DXF and WPG vector drawings (↵
optionally
also FIG and CGM) as long as understood and correctly converted to IFF-ILBM by ↵
MetaView)

Configuration

~~~~~

This WMF/AMF/IFF-DR2D/DXF/WPG (plus FIG nad CGM) vector support module has been tested with: MetaView 2.0 (C) by Henk Jonas, which is Shareware (30 DEM/20 USD)

and can be obtained from Aminet (see below). For some features, a newer version may be required, though (follow the homepage URL for a download link).

Henk Jonas - eMail: subvcbhd@dattel.zrz.tu-berlin.de  
WWW: <http://www.cs.tu-berlin.de/~jonash>

At first, you have to correctly install and configure MetaView and the libraries it is using for vector graphics parsing.

Also, you have to supply an AmigaDOS search path to a directory, where the executable "MetaView" is stored (default), or explicitly specify path plus name of the program by the controlpad entry METAVIEW\_PATH (see below).

#### Notes

~~~~~

DXF and CLP files will only be recognized, if the file extensions have not been changed (.DXF and .CLP).

Where to DOWNLOAD from

~~~~~

Aminet:gfx/conv/MetaView.lha

#### ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/MetaView.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
                      ; stacksize to be used for calling MetaView,
                      ; increasing may help on crashes
                      ; default is: 32768
                      - METAVIEW_PATH=<MetaView command path plus name>
                      ; how MetaView is to be called
                      ; e.g. METAVIEW_PATH=Work:AMF/MetaView
                      ; default is: MetaView
                      - FIG_SUPPORT
                      ; if this keyword is set, AmiFIG.svobject will
                      ; be overridden and instead MetaView will be
                      ; utilized for import FIG drawings
                      - CGM_SUPPORT
                      ; if this keyword is set, GPlot.svobject will
                      ; be overridden and instead MetaView will be
                      ; utilized for import CGM graphics
                      - STATUS=<ENABLED|DISABLED>
                      ; allows to disable this module - for example
                      ; to be able to use an other, program-specific
                      ; import-module for the same file format
```

History

~~~~~

V4.10 (07.04.1998) :

- added file recognition code for IFF-DRSD and CLP  
(-> thanks to Henk Jonas)

V4.9 (01.04.1998) :

- changed way of calling the program (SystemTagList), which should fix some crashes on certain graphics
- added possibility to increase stacksize, when necessary (crashes ?)

V4.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.59 WPG.svobject

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Supports powerUP (TM).

Version : 4.10  
Release Date : 16.02.1998

Description

~~~~~

WPG.svobject is an external library module for superview.library,
which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading of WPG (WordPerfect) BitMap files.
In detail these are :

Reading :

- WPG Bitmap (grayscaled) with 1, 2, 4 or 8 bits colordepth
- WPG Bitmap (colorMap) with 1, 2, 4 or 8 bits colordepth

Remarks

~~~~~

WordPerfect WPG files do not necessarily have to contain bitmap graphics,  
they also may contain various other data, e.g. vector graphics.

If a WPG file contains a bitMap graphic in any of its chunks, it will  
be loaded, otherwise the file will be rejected - these rejected files  
may be loaded by a correctly configured and installed MetaView.svobject,  
though.

If a file does not contain any color information, WPG.svobject will  
generate grayscales by default.  
This will be mentioned in the file-info requester.

This version actually has been tested with graphics with 1, 4 and 8 Bit  
colordepth (2, 16 and 256 Colors).

Due to the fact, that the 2 bit-routine is identically to the 1 bit-  
routine you should not get any problems with those pictures.

History

~~~~~

V4.10 (16.02.1998) :

- changed for new .svm style PPC modules

V4.9 (14.08.1997) :

- recompiled with SAS/C 6.58

1.60 SunRaster.svobject

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Version : 4.7
Release Date : 14.08.1997

Description

~~~~~

SunRaster.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading and writing of SunRaster (RAS) files.  
In detail these are :

### Reading :

- SunRaster with 2 Colors ( 1 Bit, planar)
- SunRaster with 256 Colors ( 8 Bit, chunky pixel)
- SunRaster with 24 bit (24 bit, R-G-B)

### Writing :

Depending on the Colordepth of the source the following is written :

| Source Colors | Type                      | Destination Colors |
|---------------|---------------------------|--------------------|
| 2..256        | Uncompressed Chunky Pixel | 256                |
| (24 bit)      | Uncompressed 24 bit RGB   | (24 bit)           |

### Remarks

~~~~~

- files with Colorbits other than 1, 8 or 24 are not supported yet
- only RGB-planar colormaps supported (or monochrome, without map)
- max. 1 plane of bitmap data allowed

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58
- obviously had been broken since V4.4 (V4.4 included instead ?)

## 1.61 SGI.svobject

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Version : 4.7  
 Release Date : 14.08.1997

#### Description

~~~~~

SGI.svobject is an external library module for superview.library,
 which needs any SVDriver with 24 bit Oneplane-Support.

It supports reading and writing of SGI files.

In detail these are :

Colors Depth	Organisation	RLE-Compression
256 8	8 Bit Chunky Pixel (gray)	supported
(24 Bit)	8:8:8 24 bit RGB	supported

Writing :

Source Colors	Type	Destination Colors
(24 bit)	Uncompressed RGB	(24 bit)

Remarks

~~~~~

- Currently files with BPC-Values of 2 are not supported, which means that pixel data has to be stored in bytes, not words (either gray 8 Bit or 24 bit RGB as 8:8:8, not 16 or 16:16:16)

#### History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58
- SVDriver flag was not set

1.62 PICT.svobject

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 (Also see notes under "Credits".)
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 Supports powerUP (TM).

Version : 4.9
 Release Date : 16.02.1998

Description

~~~~~

PICT.svobject is an external library module for superview.library,  
 which needs any SVDriver with 24 bit Oneplane-Support.

It supports reading of Mac PICT-2 Metafile graphics.

In detail these are :

Reading :

- Mac PICT-2 with 1, 2, 4, 8 or 24 bit colordepth  
always as 24 bit RGB Data (JPEG optionally as dithered 8 Bit)

Remarks

~~~~~

- the file extension has to be ".pct" (as on PCs), ".pic" or ".pict", otherwise it will be rejected (there do more checks take place, but those are less reliable)
- pictures always will be exported as 24 bit RGB data
- font handling always will operate with the internal standard font instead of the appropriate ones (derived from PBM package, see Credits)

Limitations

~~~~~

Please note, that the Decoding Routines of the Library are not (yet) fully re-entrant, so that only one Task may Decode a picture at a time. The Library itself manages it, that the other Task has to Delay() until the Decoding Routines are "free" again.

Since Decoding usually is managed very fast, this should not actually matter.

History

~~~~~

V4.9 (16.02.1998) :

- changed for new .svm style PPC modules

V4.8 (11.02.1998) :

- added powerUP support (optional)
- fixed some small bugs

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.63 Pictor.svobject

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Version : 4.7

Release Date : 14.08.1997

Description

~~~~~

Pictor.svobject is an external library module for superview.library, which needs any SVDriver with Bit-/Oneplane-Support.

It supports reading of Pictor/PC Paint (PIC) files.



In detail these are :

Reading :

- Files with 1, 4, or 8 Bit colordepth (monochrome or with EGA or VGA palette).

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.64 MAC.svobject

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Version : 4.7

Release Date : 14.08.1997

Description

~~~~~

MAC.svobject is an external library module for superview.library, which needs any SVDriver with Bitplane-Support.

It supports reading of MAC (MacIntosh MacPaint) files.

In detail these are :

Reading :

- MAC Black & White 576x720

Remarks

~~~~~

MacPaint files, which are to be loaded into "MAC.svobject" should contain the specific MacBinary Header (first the 128 Byte-Header, then the MacPaint specific data appended to it).

In the PC area, there may sometimes files be found, which just contain the MacPaint 576x720 black and white Data.

These files - without the header - can only be identified via the three leading zero bytes at the beginning of the 512 Byte MacPaint header.

But there's never a 100% guarantee that a File with three leading zeroes really is a MacPaint File, so we also request a filename ending with ".mac" or ".MAC" in this special case.

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58
-



```

; should the output be done as 8 or 24 bit Data ?
; default is 8 Bit data. Grayscaled graphics
; will _always_ be exported as 8 Bit
- QUANTIZATION=<0..100>
; For WRITING 8/24 bit images as 24 bit JPEG:
; 0 - poor quality, big compression
; 100 - best quality, no compression
; never use such extreme values, but try
; something like 20, 50, 75
; default is: 75)
;
; ADVANCED settings
; *****
- FORCE_GRAY_DECODE
; For READING images:
; this switch overrides the selected depth
; for colored images and always exports them
; as 8 Bit grayscaled pictures
; default is: not set
- DECODE_METHOD=<FAST_INTEGER|SLOW_INTEGER|
    FLOATING_POINT>
; For READING images:
; how to DECODE the 24 bit or gray data
; default is: FAST_INTEGER
- DITHERMODE=<DITHER_FLOYD-STEINBERG|
    NO_DITHERING|DITHER_ORDERED>
; For READING and dithering 24 bit images
; to 8 Bit images:
; how and whether to DITHER the 24 bit data
; default is: DITHER_FLOYD-STEINBERG
- COLOR_QUANTIZING=<FAST|SLOW>
; For READING and dithering 24 bit images
; to 8 Bit images:
; whether to QUANTIZE the 24 bit data within
; two passes (not with DITHER_ORDERED)
; default is: SLOW
- UPSAMPLING=<ON|OFF>
; For READING and dithering 24 bit images
; to 8 Bit images:
; whether to do fancy upsampling on the 24 bit
; default is: ON
- FORCE_GRAY_ENCODE
; For WRITING images:
; this switch causes grayscales to be written
; no matter, whether the input was colored
; default is: not set
- ENCODE_METHOD=<FAST_INTEGER|SLOW_INTEGER|
    FLOATING_POINT|FASTEST_INTEGER>
; For WRITING images:
; how to ENCODE the 24 bit or gray data
; default is: FAST_INTEGER
- OPTIMIZE=<ON|OFF>
; For WRITING 24 bit images:
; whether to optimize the generated huffman
; code (good compression, but slow)
; default is: OFF
- PROGRESSIVE=<ON|OFF>

```

---

```
; For WRITING 24 bit images:
; whether to write progressive JPEG files
; default is: OFF
```

#### History

~~~~~

V4.18 (06.09.1998) :

- smaller, faster

V4.17 (30.03.1998) :

- upgraded to libjpeg V6b

V4.16 (16.02.1998) :

- changed for new .svm style PPC modules

V4.15 (11.02.1998) :

- added support for PPC native ELF plugin module, allowing to speed up loading and saving incredibly with powerUP (TM)
- JPEG core now single-threaded due to problems with reentrancy
- in 4.13 accidentally linked the 68000 and 030 version with 060 code. No problem for 020+ users, but for 68000 users.

V4.14 (31.12.1997) :

- fixed error handling (according to hint by Tom Lane)

V4.13 (23.12.1997) :

- faster, smarter
- JPEGMEM env variable no longer checked

V4.12 (14.08.1997) :

- recompiled with SAS/C 6.58

1.66 PCD.svobject

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(Also see notes under "Credits".)

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Supports powerUP (TM).

Version : 4.12

Release Date : 16.02.1998

Description

~~~~~

PCD.svobject is an external library module for superview.library, which needs any SVDriver with 24 bit Oneplane-Support.

It supports reading of the unpacked resolutions of PCD-files,

as BASE/16 (192x128), BASE/4 (384x256) and BASE (768x512) directly, and additionally BASE\*4 (1536x1024) and BASE\*16 (3072x2048) via the external NetPBM-tool "hpcdtoppm".

It does not read the BASE\*4 (1536x1024) and BASE\*16 (3072x2048) resolutions directly, since these are encrypted in a way, which is not only undocumented, but also copyrighted by Kodak, who are taking a license fee for their decoding algorithms.

#### Legal Issues

~~~~~

This program module is FREeware.

The author does not claim any copyrights on the code, which is used to decode the YUV-data fromout the PCD-file (see credits) or on the other PCD-related information.

Copyright is only claimed for the program as a whole, which means that some parts of the library module, which are also used within other SVOjects, are copyrighted by the author.

If the writing or the publication of this program should ever be considered to be partly any kind of a violation of third party copyrights, it is hereby expressed that the usage of this program is only allowed, if any user of it agrees to the following: If the case as described above takes place, any user has to delete any copies of this program immediately when he gets informed about it.

Configuration

~~~~~

"hpcdtoppm" does not need to be configured. Just copy it somewhere.

#### Where to DOWNLOAD from

~~~~~

Aminet:gfx/pbm/#?.lha (#! something with "pbm" in it)

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/PCD.controlpad"

ControlPad-Commands : - OUTPUTFORMAT=<BASE/16 | BASE/4 | BASE  
| BASE\*4 | BASE\*16>

; specifies the output resolution to be used  
- HPCDTOPPM\_PATH=<hpcdtoppm command path plus name>  
; how NetPBM's hpcdtoppm is to be called  
; e.g. HPCDTOPPM\_PATH=Work:NetPBM/ppm/hpcdtoppm  
; If this one is not set, "BASE" will be  
; used as default resolution, even if OUTPUTFORMAT  
; has been set to BASE\*4 or BASE\*16

#### History

~~~~~

V4.12 (16.02.1998) :

- changed for new .svm style PPC modules

V4.11 (14.08.1997) :

- recompiled with SAS/C 6.58

1.67 FastILBM24.svobject

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Version : 4.7
Release Date : 14.08.1997

Description

~~~~~

FastILBM24.svobject is an external library module for superview.library, which needs any SVDriver with Oneplane-Support.

It has especially been written to allow fast and "low-memory" loading and dithering of ILBM 24 bit graphics.

This means, that no compressed or uncompressed 24 bit data will be completely loaded into memory, but directly be dithered to HAM6/8, so that even people with less memory and no graphics card will be able to view those nice 24 bit graphics.

May be deactivated, even if installed; may be switched between HAM6 and HAM8; allows increasing/decreasing of internal cache buffer.

### ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/FastILBM24.controlpad"
ControlPad-Commands : - BUFFERSIZE=<Size in Bytes>
                      ; how many bytes should be buffered
                      ; (more = faster)
                      ; Default is 8192, minimum is 256
                      - PASSTHROUGH
                      ; do not recognize ANY pictures, so that
                      ; they e.g. might be passed through to
                      ; ILBM.svobject instead
                      - DITHERMODE=<HAM6_QUICK|HAM8_QUICK>
                      ; Default is HAM6_QUICK
```

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.68 YUVN.svobject

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(Also see notes under "Credits".)

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Version : 4.8  
Release Date : 02.04.1998

Description  
~~~~~

YUVN.svobject is an external library module for superview.library,
which needs any SVDriver with 24 bit Oneplane-Support.

It supports reading and writing of IFF-YUVN (YUVN) files.
In detail these are :

Reading :

- IFF-YUVN 24 bit (gray, 411, 422, 444, 211, 222)

Gray will be imported as 24 bit with R=G=B.
Use "ExtractGrayScales" operator to reduce
memory usage - and redundancy

Writing :

- IFF-YUVN 24 bit (411)

Reading/writing from/to ClipBoard is supported.

Remarks
~~~~~

- only 24 bit sources will be written as IFF-YUVN.  
256 color graphics are NOT automatically transformed to 24 bit,  
so that you may have to use the "AnyTo24Bit" operator before saving.

History  
~~~~~

V4.8 (02.04.1998) :

- when writing, due to bad chunk size alignment, images sometimes later
might not have been parsed correctly (by iffparse.library), resulting
in a "data not found" or similar message with YUVN.svobject
(-> reported by Waldemar Scheu)

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.69 DEEP.svobject

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Supports powerUP (TM).

Version : 4.9
Release Date : 16.02.1998

Description
~~~~~

---

DEEP.svobject is an external library module for superview.library, which needs any SVDriver with 24 bit Oneplane-Support.

It supports reading and writing of specific IFF-DEEP (DEEP) files. In detail these are :

Reading :

- IFF-DEEP 24 bit RGB 8:8:8, uncompressed  
and 32 bit RGBA 8:8:8:8, uncompressed (Alpha channel ignored)
- IFF-DEEP 24 bit RGB 8:8:8, RLE-compressed  
and 32 bit RGBA 8:8:8:8, RLE-compressed (Alpha channel ignored)

Writing :

- IFF-DEEP 24 bit RGB 8:8:8, uncompressed

Reading/writing from/to ClipBoard is supported.

Remarks

~~~~~

- only 24 bit sources will be written as IFF-DEEP.
There's no conversion done from e.g. 256 Colors to 24 bit to perform the requirements of this file format.
- other compression methods (e.g. Huffman) aren't yet supported due to a lack of information on implementation

History

~~~~~

V4.9 (16.02.1998) :

- changed for new .svm style PPC modules

V4.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.70 FAXX.svobject

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(Also see notes under "Credits".)

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Version : 4.5

Release Date : 05.03.1998

Description

~~~~~

FAXX.svobject is an external library module for superview.library, which needs any SVDriver with Bitplane-Support.

It supports reading of IFF-FAXX (GPFax) files.

In detail these are :

Reading :

- IFF-FAXX 1 bit black & white, compressed

Reading from Clipboard is supported.

Notes

~~~~~

Note, that only IFF-FAXX files compliant to the official FAXX (Facsimile image FORM) as registered at CATS 11/13/91 by Christopher E. Darsch (Atlantis Design Group, Inc.) are supported. These files do consist of the three chunks FXHD, PAGE and FLOG and may be extended by the GPHD chunk as defined by GPSoftware.

NOT supported are the completely incompatible (and obviously non-standard) files as written by MultiFax, which seem to mainly consist of text and also may include an attached IFF-FTXT file. MultiFax, as a second option, also seems to output partly standard-compliant files, which in theory should be read correctly - in practice there did occur some problems with garbaged output though (yet it's not clear, whether it's the fault of the MultiFax encoder or our decoder).

A typical file written by GPFax may look like this:

```
FORM FAXX
  FXHD
  GPHD
  PAGE
```

A supported MultiFax file may look like this:

```
FORM FAXX (19102 data bytes)
  FXHD
  PCON
  PAGE
```

A non-supported MultiFax file may look like this:

```
FORM FAXX
  TELE
  CNFG
  PFLG
  FDSC
FORM FTXT
  MCMD
  MCMD
  MCMD
  MCMD
  CHRS
```

#### Credits

~~~~~

Thanks to Dr. Greg Perry (GPSofT) for help on implementation.

History

~~~~~

V4.5 (05.03.1998) :

- small changes

V4.4 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.71 RGB8.svobject

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Supports powerUP (TM).

Version : 4.7

Release Date : 03.10.1998

## Description

~~~~~

RGB8.svobject is an external library module for superview.library,
which needs any SVDriver with 24 bit Oneplane-Support.

It supports reading and writing of IFF-**RGB8** and IFF-**RGBN**
(Turbo Silver, Imagine, ArteEffect) files.

In detail these are :

Reading :

- IFF-**RGBN** 12 bit RGB 4:4:4, RunLength4 compressed (Genlock bit ignored)
- IFF-**RGB8** 24 bit RGB 8:8:8, RunLength4 compressed (Alpha channel ignored)

Writing :

- IFF-**RGB8** 24 bit RGB 8:8:8, RunLength4 compressed (no Alpha channel)

Reading/writing from/to Clipboard is supported.

Remarks

~~~~~

- only 24 bit sources will be written as IFF-**RGB8**.  
There's no conversion done from e.g. 256 Colors to 24 bit  
to perform the requirements of this file format.
- other compression methods are not available, thus not supported...

## History

~~~~~

V4.7 (03.10.1998) :

- was checking for 5 instead of 2 (4) IFF-IDs. Possible crash reason...
(-> Waldemar Scheu)
 - added support for IFF-**RGBN**
(-> sample gfx supplied by Waldemar Scheu)
-

V4.6 (16.02.1998) :

- changed for new .svm style PPC modules

V4.5 (14.08.1997) :

- recompiled with SAS/C 6.58

1.72 RGFX.svobject

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Version : 4.4
Release Date : 05.12.1998

Description

~~~~~

RGFX.svobject is an external library module for superview.library, which needs any SVDriver with 8/24 bit Oneplane- and Bitplane-Support.

It supports reading and writing of the new IFF-RGFX graphics file standard for AGA and RTG Amigas (see Aminet:dev/misc/IFF-RGFX.lha)  
In detail these are :

Reading :

- IFF-RGFX 1..24 bit uncompressed
- IFF-RGFX 1..24 bit XPK-compressed

Writing :

- IFF-RGFX 1..24 bit uncompressed
- IFF-RGFX 1..24 bit XPK-compressed

Reading/writing from/to ClipBoard is supported.

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/RGFX.controlpad"
ControlPad-Commands : - PACKMETHOD=<xxxx>
                      ; XPK packer to be used for writing
                      ; "RGFX xpk-compressed"
                      ; Default: NUKE
                      - SAVE_CHUNKY
                      ; forces chunky data to be saved,
                      ; even if source graphics was planar
                      ; (e.g. when converting from IFF-ILBM).
                      ; May also result in smaller files.
```

History

~~~~~

V4.4 (05.12.1998) :

- rscm->rscm\_AGA still may have contained non-AGA modes when

writing files under CGFx/P96. Fixed again. More redundant checks.  
 (-> Achim Stegemann)

- saving chunky files now can be forced (via SAVE\_CHUNKY option)  
 (-> Achim Stegemann)

V4.3 (03.12.1997) :

- rscm->rscm\_AGA may have contained non-AGA modes when writing  
 files under CGFx/P96. Fixed.  
 (-> Achim Stegemann)
- HAM would not necessarily have been written with correct mode  
 id: P96/CGfx must be INVALID\_ID and AGA must be OR'ed with HAM\_KEY

V4.2 (27.11.1997) :

- write: bytesperline entry always was set to zero in chunky  
 mode (accidentally mixed ">> 3" and "/" 8" to ">> 8" :-(  
 (-> Achim Stegemann)

V4.1 (16.11.1997) :

- first release, implementing IFF-RGFX V1.0

## 1.73 QRT.svobject

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Version : 4.8  
 Release Date : 02.08.1998

Description

~~~~~

QRT.svobject is an external library module for superview.library,
 which needs any SVDriver with 24 bit Oneplane-Support.

It supports reading and writing of QRT (POV RayTracer) files.
 In detail these are :

Reading :

- QRT Dump 24 bit

Writing :

- QRT Dump 24 bit

Remarks

~~~~~

- only 24 bit sources will be written as QRT.  
 There's no conversion done from e.g. 256 Colors to 24 bit  
 to perform the requirements of this file format.

History

~~~~~

V4.8 (02.08.1998) :

- progressbar started at 100% then went down to 0%...

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.74 C-Source.svobject

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Version : 4.8

Release Date : 09.11.1997

Description

~~~~~

C-Source.svobject is an external library module for superview.library.

It creates C or Assembler source code in chunky/RGB notation from any input graphics ↔

(<= 8 Bit and HAM as chunky, 24 bit as RGB).

In detail these are :

Writing :

C-Source: - 8 Bit as C-Source with UBYTE [] pixel array and UBYTE [][][3] ↔  
colormap

(HAM6/8 indicated by flag #define)

- 24 bit as C-Source with UBYTE [][][3] pixel array (RGB data)

Asm-Source: - 8 Bit as asm source dc.b pixel array and dc.b (3-byte wise) ↔  
colormap

(HAM6/8 indicated by EQU defined flag)

- 24 bit as asm source dc.b pixel array (3-byte RGB data)

For simple extraction of a colormap from a graphics file, you should apply the Crop operator with parameters

CROP\_LEFTEDGE=0

CROP\_TOPEDGE=0

CROP\_WIDTH=1

CROP\_HEIGHT=1

and then save the result as C-Source.

Remarks

~~~~~

- this module uses buffered I/O, but nevertheless is quite slow for larger graphics (I/O buffer is set to 64K for OS version >= 39)
- usage of RAM-Disk for output buffers is strongly suggested
- the module does raw output, which should be compileable with any Amiga C compiler - and any other compiler, when simply replacing

```
#include <exec/types.h>

with

typedef unsigned char UBYTE;
typedef unsigned long ULONG;

- the "endmark" entries at the end of any written array can simply
  be removed; they actually have no meaning, but simplify the process
  of writing the data to the file
```

History

~~~~~

V4.7 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.75 UXFormats

XWD and UtahRLE are not included with this distribution, but can be found on AmiNet or any related BBS.

Look out for an archive called "Aminet:gfx/show/svoUXFormats.lha" or similar.

## 1.76 ECS.svdriver

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Version : 2.17

Release Date : 02.12.1997

#### Requirements

~~~~~

- OS V2.04+ (V37+) and its libraries
- AMIGA with Old or Enhanced Chip Set (OCS/ECS)

Description

~~~~~

ECS.svdriver is an external SV\_GfxBuffer display module for superview.library, which allows object-oriented displaying on ECS displays.

This Driver supports the following :

| Dimensions | Depth  | Type                    |
|------------|--------|-------------------------|
| [ECS]      | [ECS]  | BITPLANE                |
| [ECS]      | 8/(24) | ONEPLANE (Chunky Pixel) |

The 8-Bit mode will perhaps only work on ECS systems which have any Graphic Card installed, which allows 256 or more colors in a way of an Intuition emulation.

24 bit Graphics will be displayed as "best guess of 256 colors" if no SVOperator is specified.

Autoscrolling of Screens larger than the actual display is supported : Just move the mouse to the boundings !

#### ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/ECS.controlpad"
ControlPad-Commands : - 24BITOPERATOR=<OperatorName>
                      ; (case-sensitive, ".svoperator" may be added)
                      ; e.g. "24BITOPERATOR=24BitToHAM.svoperator"
                      ; or   "24BITOPERATOR=ExtractGrayScales"
                      ; specifies, which operation should be performed
                      ; on 24 bit graphics before displaying them
                      ; (if not specified displaying will fail)
- 8BITOPERATOR=<OperatorName>
  ; (case-sensitive, ".svoperator" may be added)
  ; e.g. "8BITOPERATOR=ExtractGrayScales"
  ; specifies, which operation should be performed
  ; on non-ECS graphics (more than 16 Colors in
  ; HighRes, more than 32 Colors in LowRes, HAM8)
  ; (if not specified, will be tried to display)
- BITMAPCOPY=<DIRECT|RTG>
  ; "BITMAPCOPY=RTG" prevents ECS.svdriver from
  ; directly copying into Bitmaps, which will
  ; result in a usage of more memory, but keeps it
  ; working.
  ; Default is "BITMAPCOPY=DIRECT".
- SCREENINFRONT
  ; Put Screen to front before the graphics
  ; has been displayed (useful with GfxCards)
```

History

~~~~~

V2.17 (29.11.1997) :

- improved resource management and temporary buffer delocation (may fix some hidden bugs as well)
- tried to reconstruct 5.81/16.2 behaviour for OS 3.0/3.1 systems *\*without\** SetPatch V43 (and only for these), since another strange effect seems to have caused distortion of the original bitmap *\*although\** we made copies (compiler bug ?) (-> Sven Drieling, Colin J. Knight)
- SetPatch check was missing `__saveds`
- in RTG mode, we used the wrong pointer to reference our buffer, once (here: could have been a problem when a 8BITOPERATOR had been selected and used on a ONEPLANE graphics, which then did become a BITPLANE graphics - highly unlikely case, though)
- AI's original CheckSetPatch routine was buggy, it actually did the opposite as expected: with any version lower or equal it did return TRUE, for any greater version it returned FALSE. Since we check for V43.4, it would only have worked with this one - otherwise we applied our bugfix, although it was no

longer necessary, and with e.g. V40.16 there would not have been a bug-fix at all!  
 This could have resulted in a destroyed source bitmap graphics, i.e. a black screen after certain times of viewing or usage of certain image processing operators.  
 (-> 'black screen' effect noticed, and debugging done by Colin J. Knight and Sven Drieling)

V2.16 (03.10.1997) :

- more changes

V2.15 (26.09.1997) :

- c2p conversion did allocate a temporary line buffer even if not needed/used (when SetPatch 43.x being installed)
- added another patch for systems not having SetPatch 43.x

V2.14 (15.09.1997) :

- if HAM (HAM6) is unavailable for a selected (RTG ?) screen mode, an automatic fallback to LowRes will take place
- dito for EHB
- if a screen mode is not available we now will compute (OS 37) or look for (OS 39+) a better one - just like AGA.svdriver

V2.13 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.77 AGA.svdriver

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Version : 2.20  
 Release Date : 02.12.1997

### Requirements

~~~~~

- OS V3+ (V39+) and its libraries (takes advantage of V40+)
- AMIGA with AGA ChipSet (OCS/ECS still supported, but with restrictions) or an appropriate Graphics Card with Workbench Emulation

Description

~~~~~

AGA.svdriver is an external SV\_GfxBuffer display module for superview.library, which allows object-oriented displaying on AGA displays.

This Driver supports the following :

| Dimensions | Depth | Type |
|------------|-------|------|
|------------|-------|------|



```
[AGA]          [AGA]          BITPLANE
[AGA]          8/(24)         ONEPLANE   (Chunky Pixel)
```

24 bit Graphics will be displayed as "best guess of 256 colors" if no SVOperator is specified.

Autoscrolling of Screens larger than the actual display is supported : Just move the mouse to the boundings !

#### ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/AGA.controlpad"
ControlPad-Commands : - 24BITOPERATOR=<OperatorName>
                      ; (case-sensitive, ".svoperator" may be added)
                      ; e.g. "24BITOPERATOR=24BitToHAM.svoperator"
                      ; or   "24BITOPERATOR=ExtractGrayScales"
                      ; specifies, which operation should be performed
                      ; on 24 bit graphics before displaying them
                      ; (if not specified, "best guess" colors will
                      ; be used, which is really slow)
- BITMAPCOPY=<DIRECT|RTG>
  ; "BITMAPCOPY=RTG" prevents AGA.svdriver from
  ; directly copying into Bitmaps, which will
  ; result in a usage of more memory, but keeps it
  ; working.
  ; Default is "BITMAPCOPY=DIRECT".
- SCREENINFRONT
  ; Put Screen to front before the graphics
  ; has been displayed (useful with GfxCards)
```

History

~~~~~

V2.20 (02.12.1997) :

- improved resource management and temporary buffer delocation (may fix some hidden bugs as well)
- fixed bug in internal 24 bit "best pen" routine (under V40, only)
- WriteChunkPixel() now only will be used, when SetPatch V43 is installed (maybe it inherits some problems from WritePixelLine8())
- tried to reconstruct 5.81/16.2 behaviour for OS 3.0/3.1 systems *\*without\** SetPatch V43 (and only for these), since another strange effect seems to have caused distortion of the original bitmap *\*although\** we made copies (compiler bug ?) (-> Sven Drieling, Colin J. Knight)
- removed two unused pointer variables
- SetPatch check was missing `__saveds`
- in RTG mode, we used the wrong pointer to reference our buffer, once (here: harmless)
- AI's original CheckSetPatch routine was buggy, it actually did the opposite as expected: with any version lower or equal it did return TRUE, for any greater version it returned FALSE. Since we check for V43.4, it would only have worked with this one - otherwise we applied our bugfix, although it was no longer necessary, and with e.g. V40.16 there would not have been a bug-fix at all!  
This could have resulted in a destroyed source bitmap graphics, i.e. a black screen after certain times of viewing

or usage of certain image processing operators.  
 (-> 'black screen' effect noticed, and debugging done by  
 Colin J. Knight and Sven Drieling)

V2.19 (03.10.1997) :

- more changes

V2.18 (26.09.1997) :

- c2p conversion did allocate a temporary line buffer even if not  
 needed/used (when SetPatch 43.x being installed)  
 - added another patch for systems not having SetPatch 43.x

V2.17 (15.09.1997) :

- if HAM (HAM6/8) is unavailable for a selected (RTG ?) screen mode,  
 an automatic fallback to LowRes/HighRes will take place  
 - dito for EHB  
 - fixed a possible bug source, which would have caused problems  
 when 24BITOPERATOR resulted in a BITPLANE buffer (usually ONEPLANE)

V2.16 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.78 Window.svdriver

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Version : 2.4  
 Release Date : 31.10.1998

Requirements  
 ~~~~~

AGA
 and/or
 CyberGraphX
 RTG system.

Description
 ~~~~~

Window.svdriver is an external SV\_GfxBuffer display module for  
 superview.library, which allows object-oriented displaying on  
 AGA/RTG displays in a window on a selectable Intuition public screen.

The driver adjusts itself to the given display - which means,  
 that colors either are remapped to the given screen colors using  
 a "best pen" algorithm (OS compliant) or - in case of a RTG  
 24 bit screen - will be rendered in true color.

Scrolling within the window boundaries is possible, if the  
 displayed graphics is larger than the original window size - if

that is the case, the SVDriver runs in a special scroll mode, which does not give the control back to the calling program until that mode ended.

If the graphics completely fits into the window or the window - which is resizeable - afterwards became smaller than the graphics, the scroll mode will not be entered.

When in scroll mode, the user may scroll the graphics into four directions using the cursor keys. Pressing the left mouse button or any other (vanilla) key ends the scroll mode and again gives control back to the calling application (usually another mouse click or special keyboard shortcut then will close the graphics window).

The title bar of the display window states in which mode the SVDriver currently is.

#### Notes

~~~~~

When scroll mode isn't turned on, there's no interaction between the SVDriver and the calling program possible; so the possibility of resizing the window is disabled. Unfortunately, the normal window refresh (caused by window overlays) is disabled as well. You may wish to take a look at the "WinSlide" tool coming with SuperView, which does not suffer from these problems.

Credits

~~~~~

Thanks to (in alphabetical order) Frank Dietrich, Sven Drieling, Tom Lively and several others for intensive beta testing.

#### ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/Window.controlpad"
ControlPad-Commands : - 24BITOPERATOR=<OperatorName>
                      ; (case-sensitive, ".svoperator" may be added)
                      ; e.g. "24BITOPERATOR=Dither24Bit.svoperator"
                      ; or   "24BITOPERATOR=ExtractGrayScales"
                      ; specifies, which operation should be performed
                      ; on 24 bit graphics before displaying them
                      ; on a screen with a colordepth <= 8
                      ; (if not specified, "best guess" colors will
                      ; be used, which is really slow). Note, that
                      ; HAM is not allowed (thus don't specify the
                      ; 24BitToHAM operator).
- SCROLLSPEED=<Pixels>
  ; determines, how many pixel should
  ; be scrolled in any direction when
  ; being in scroll mode and a cursor key
  ; is pressed
  ; Default: 10 (medium slow)
- PUBSCREEN_NAME=<PubScreenName>
```

```

; where the window driver should open
; its windows (if not set or not available,
; the default Public Screen will be used).
- SCROLLMODE=<AUTO|NEVER|ALWAYS>
; - 'ALWAYS' activates scroll mode even for
; non-oversized graphics; this will block
; the input of the calling program as
; long as no key or mouse button has been
; pressed inside the display window - but
; will avoid window-refresh problems.
; - 'NEVER' is to avoid the blocking of
; input handling that is caused by the
; scrolling handler (-> PMPro Diashow, ...)
; Default: AUTO
- TRUECOLOR8
; if the Pubscreen is a 24 bit screen but
; the graphics to be displayed is 'only'
; 8 bit or HAM6/8, usually remapping is
; done nevertheless. This option instead
; allows to call "AnyTo24Bit" first,
; thus giving better display quality
; on 24 bit screens. This is memory
; intensive, because for scrolling we
; need another complete 24 bit buffer.
; (requires AnyTo24Bit.svoperator)
- PEN_PRECISION=<IMAGE|EXACT>
; you should not change this
; default: IMAGE

```

History

~~~~~

V2.4 (31.10.1998) :

- added special fix for PMPro + DitherFix24.svoperator
- added new option "PEN\_PRECISION"
- removed SCROLLALWAYS again and replaced by (more flexible) SCROLLMODE option

V2.3 (05.10.1998) :

- added "SCROLLALWAYS" option to allow to avoid the known window-refresh problems when in non-scroll mode
- added "TRUECOLOR8" option to allow 8 bit and HAM display without remapping on 24 bit screens
- added special (undocumented ;) option for PMPro's public screens

V2.2 (19.07.1998) :

- tried to speed up remapping a little

V2.1 (21.06.1998) :

- first release

## 1.79 CgxOverlay.svdriver

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Version : 2.1  
Release Date : 20.12.1998

Requirements  
~~~~~

CyberGraphX
RTG system, plus a graphics
card that does support CyberGraphX' video/overlay feature (e.g. CyberVision64/3D ↔
).

!! BE WARNED !! This still is a beta version...

Description
~~~~~

CgxOverlay.svdriver is an external SV\_GfxBuffer display module for  
superview.library, which allows object-oriented displaying on  
RTG displays in an overlay window on a selectable Intuition public  
screen.

When in overlay mode, a true color window (16 Bit) can be created on  
a given screen - the difference to a normal window just is, that a) the  
underlying screen does not need to have the same colordepth and b) nothing  
can be moved over this window (if do it, it won't be visible).

The driver does not need to adjust itself to the given display - which  
means, that no dithering is needed, because always 16 bit true color  
data can be written to the output overlay window.

Currently, no scrolling is possible - but the overlay window can  
be resized to fit (handled in hardware).

ControlPad-Switches  
~~~~~

ControlPad-Name : "ENV:SuperView-Library/CgxOverlay.controlpad"
ControlPad-Commands : - PUBSCREEN_NAME=<PubScreenName>
; where the window driver should open
; its windows (if not set or not available,
; the default Public Screen will be used).

History
~~~~~

V2.1 (20.12.1998) :

- first release (after some beta testing)

## 1.80 CyberGraphics.svdriver

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Version : 2.20

Release Date : 03.04.1998

### Requirements

~~~~~

- OS V3+ (V39)+ and its libraries
- AMIGA with CyberGraphX V2/V3 System and appropriate Graphics Card
- cybergraphics.library V40+

Description

~~~~~

CyberGraphics.svdriver is an external SV\_GfxBuffer display module for superview.library, which allows object-oriented displaying on Amigas with the 16/24 bit CyberGraphX RTG System.

This Driver displays any 1..8 or 24 bit graphics via the CyberGraphX System. Graphics upto 256 Colors will be displayed via usual graphics routines, 24 bit graphics will be displayed via CyberGraphX in either 16 or 24 bit (16 Bit is default, because the unregistered version of CyberGraphX does not support more and I guess, that not yet all the users out there registered it already).

HAM6/8 will be converted to 24 bit, which then will either be displayed as 16 or 24 bit.

The driver will not open any Screens in standard ECS/AGA modes, since it makes more sense to use AGA.svdriver in such a case. If no CyberGraphX screenmode is specified, it will be generated, which is just the same effect like with an intelligent screen promoter. No ECS/AGA screenmodes will be passed through, since this is neither useful nor practicable on two Monitor systems or with single 31kHz-limited Monitors.

### Credits

~~~~~

Thanks to Ingenieurbüro Helfrich, for supplying the PiccoloSD64 card (in the meantime using a CyberVision64/3D and CyberGraphX V3, BTW).

The CyberGraphX Software of course is copyrighted by its authors, which is hereby expressively respected in all points.

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/Cybergraphics.controlpad"  
 ControlPad-Commands : - EMUSCREENDEPTH=<16|24>  
                           ; beginning depth for opening CyberGraphX Screens  
                           ; Default is 16 Bit (which will also be tried

- ; when opening of a 24 bit Screen fails)
- ; This does not concern colordepths < 16 Bit,
- ; except HAM6/8.
- SMALLSCREENS
- ; unless this keyword is specified, it is not
- ; tried to open screens smaller than 320x240

#### History

~~~~~

V2.20 (3.4.1998) :

- small changes

V2.19 (23.12.1997) :

- now labeled "CyberGraphX Screenshot" instead of "Cybergraphics Screenshot" (-> Frank Mariak)
- recompiled with SAS/C 6.58

V2.18 (14.08.1997) :

- removed some unused, dead code
- recompiled with SAS/C 6.58

1.81 EGS7.svdriver

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Version : 2.11

Release Date : 14.08.1997

Requirements

~~~~~

- OS V2.04+ (V37)+ and its libraries
- AMIGA with EGS Graphic Card (or EGS distribution with Amiga Emulation)
- egs.library V1+ (should be V7+)
- egsintui.library V1+ (should be V7+)
- egsgfx.library V1+ (should be V7+)

#### Description

~~~~~

EGS7.svdriver is an external SV_GfxBuffer display module for superview.library, which allows object-oriented displaying on EGS V7 (Enhanced Graphic System).

This Driver displays any 1..8 or 24 bit graphics via the EGS7 System. Any source Graphics with less than 24 bit, like 256 Color or HAM6/8 graphics, are converted to 24 bit before displaying them.

This EGS7.svdriver is based on my former "EGS.svdriver", which is to be replaced by the new one. But of course you may still continue using the older one.

The difference is, that the EGS7.svdriver really does display any of the available source graphics formats (even HAM) and is x-times

faster than the old one. Also, it is now possible to directly close the EGS-Displaywindow via its Close-Gadget, since some kind of self-written Intuition-Emulation enables us to do so.

Note:

You may consider not to use this EGS7.svdriver, but instead EGSPPlus from Aminet (Aminet:gfx/board/EGSPPlus.lha), which offers its own cybergraphics.library clone, and thus should work with CyberGraphics.svdriver.

Credits

~~~~~

Thanks to Ingenieurbüro Helfrich, for supplying the PiccoloSD64 card.

The EGS7 Software is of course copyrighted by its authors, which is hereby expressively respected in all points.

#### Notes

~~~~~

This EGS-SVDriver should still work with the AMIGA driver for EGS.

When using the ECS/AGA emulation, you should set the max. possible colordepth in the ScreenMode preferences program.

AGA:

With AGA any Graphics with less than 256 Colors should be displayed 100% correctly. Only 256 Color-graphics will usually have some Colors wrong, because those are obtained by the EGS-System for the Display itself (Window-Borders, etc.), so that they usually can't be used for the graphics. 24 bit graphics will be dithered to 256 Colors under AGA (usually grayscale).

ECS:

Using the ECS emulation will perhaps nearly always result in very ugly Colors, if you're displaying more than, let's say, 8 Colors. This results out of the maximum colordepth of 16 Colors in Hires, of which some - see AGA notes - are already reserved. Of course 24 bit graphics may also be dithered to 16 Colors/Grayscales, but better don't try it out ...

History

~~~~~

V2.11 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.82 Picasso96.svdriver

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Version : 2.5



Release Date : 03.04.1998

#### Requirements

~~~~~

- OS V3+ (V39)+ and its libraries
- AMIGA with Picasso96 System and appropriate Graphics Card
- Picasso96API.library V2+

Description

~~~~~

Picasso96.svdriver is an external SV\_GfxBuffer display module for superview.library, which allows object-oriented displaying on Amigas with the Picasso96 RTG System.

The related Picasso96 libraries are needed.

This Driver supports the following :

| Source   | Depth | Special Modes | Dimensions           | Dest. Depth |
|----------|-------|---------------|----------------------|-------------|
| ONEPLANE | 8/24  | HAM6, HAM8    | [ Picasso-Dependent] | 8 / 24      |
| BITPLANE | 1..8  | HAM6, HAM8    | [ Picasso-Dependent] | 8 / 24      |

HAM6/8 will be converted to 24 bit, which then will either be displayed as 16 or 24 bit.

24 bit will either be displayed in 16 or 24 bit.

#### Credits

~~~~~

Thanks to Tobias Abt and Alexander Kneer (Picasso 96 team) for developer support and beta-testing/debugging.

The Picasso96 Emulation Software of course is copyrighted by it authors, c/o Tobias Abt and Alexander Kneer, which is hereby expressively respected in all points.

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/Picasso96.controlpad"
ControlPad-Commands : - SMALLSCREENS
                      ; unless this keyword is specified, it is not
                      ; tried to open screens smaller than 320x240
- EMUSCREENDEPTH=<16|24>
                      ; beginning depth for opening Picasso96 Screens
                      ; Default is 24 bit (if opening fails, it is
                      ; also tried to open a 16 Bit Screen, then)
```

#### History

~~~~~

V2.5 (03.04.1998) :

- no longer tries to open 16/24 bit screens on 8 bit mode IDs; should fix known problems with PMPPro and SViewNG
- (-> thanks to IrseeSoft for pointing out and to Alexander Kneer for reporting and help on debugging)

- cleaned up source a little bit, smaller now

V2.4 (20.08.1997) :

- explicitly clears screen (SetRast) before displaying
- WritePixelFormat8() seems to have produced crap sometimes, now doing it the same way as in CyberGraphics.svdriver
- recompiled with SAS/C 6.58
- fixed a bunch of bugs; should work as expected, now. Did some testing with P96/PicassoIV, P96/PicassoII and P96-CGfx emulation
(-> Paul Lesurf, Jürgen Schäfer, me)

1.83 Picassoll.svdriver

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Version : 2.11
Release Date : 14.08.1997

Requirements

~~~~~

- OS V2.04+ (V37)+ and its libraries
- AMIGA with Picasso II/II+/IV Graphics Card and Software, Picasso96 emulation should work as well (not tested yet)
- vilintuisup.library V1+

### Description

~~~~~

PicassoII.svdriver is an external SV_GfxBuffer display module for superview.library, which allows object-oriented displaying on Amigas with the Picasso Workbench Emulation System.

The related Picasso-libraries are needed.

This Driver supports the following :

Source	Depth	Special Modes	Dimensions	Dest. Depth
ONEPLANE	8/24	HAM6, HAM8	[Picasso-Dependent]	8 / 24
BITPLANE	1..8	HAM6, HAM8	[Picasso-Dependent]	8 / 24

HAM6/8 will be converted to 24 bit, which then will either be displayed as 16 or 24 bit.

24 bit will either be displayed in 16 or 24 bit.

Credits

~~~~~

Thanks to Florian Zeiler (IrseeSoft) for supplying the Gfx Card.

The Picasso Emulation Software is of course copyrighted by Village Tronic Marketing GmbH, which is hereby expressively respected in all points.

## Known Bugs

~~~~~

Problem:

As with V1.8 (6. Apr 1994) of the Picasso II Software Set, the vilintuisup.library sometimes supplies Screens, which differ between internal dimensions and actual dimensions.

A 24 bit graphics with 1165x712 would be displayed on a Screen with correct dimensions in best ViewMode. But for some reason, the Intuition Part of the Screen will be opened in 1168x712 with a related ViewMode. Whenever this ViewMode is the best fitting one, this seems to make problems to the Picasso Emulation. If the ViewMode is one with a larger or smaller display (so that either Autoscroll has to be used, or the graphics does not fill the whole screen) this does not occur.

This is not a bug of the PicassoII.svdriver, since width adjustments will occur independently from the viewmode selection.

Solution:

Whenever the Picture is weirdly distorted, at first try an other viewmode. This bug does not seem to cause crashes, only destroyed displays.

Maybe a newer version of the Picasso Software already did fix this (seems to be an alignment problem when copying from RAM into the Picasso onboard-memory).

Problem:

When using AUTOSCROLLADJUST the Picasso Software may destroy about two lines within the displayed picture (get black).

Solution:

Don't use it.

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/PicassoII.controlpad"

ControlPad-Commands : - SMALLSCREENS  
 ; unless this keyword is specified, it is not  
 ; tried to open screens smaller than 320x240  
 - BLITTER  
 ; uses the Picasso blitter to copy graphics  
 ; into screens. Otherwise CPU is used.  
 ; On 68000 systems you may wish to use the blitter  
 - EMUSCREENDEPTH=<16|24>  
 ; beginning depth for opening Picasso Screens  
 ; Default is 24 bit (if opening fails, it is  
 ; also tried to open a 16 Bit Screen, then)  
 - SCREENMODEREQUEST  
 ; if this one is specified, the SVDriver ITSELF  
 ; will open a ScreenMode-Requester and ask  
 ; for an appropriate Screenmode to use.  
 ; Useful, if you always like to change modes.  
 - AUTOSCROLLADJUST  
 ; this keyword will force Autoscroll whenever  
 ; it would make sense, but the Picasso Software  
 ; would not manage it by itself (when either  
 ; only width or height need to be autoscrollled)

History

~~~~~

V2.11 (14.08.1997) :

- removed some unnecessary parts 2.7 compatibility code
- explicitly clears screen (SetRast) before displaying
- recompiled with SAS/C 6.58

1.84 OPAL.svdriver

Just a short note before using and installing OPAL.svdriver and (of course ;-) reading the following documentation:

There's a little problem causing some OPAL programs not to be displayed correctly on certain systems with specific chipsets.

That was the reason why it did not work on the machines of some people - mine was one of these - but nevertheless it is easy to workaround and even already has been described within the official OpalVision Reference Manual [page 326].

To speak clearly, the color palette has to be adjusted concerning Color 0 (the magic color), but only the BLUE component, within the Palette Preferences.

Any other colors and components are freely selectable.

OCS and ECS Chipset Machines with Zorro Bus (2000-3000)

BLUE of COLOR 0 must be either 1, 3, 5, 7, 9, 11, 13, or 15.

AGA Chipset Machines with Zorro Bus (4000)

BLUE of COLOR 0 must have Bit 4 set, which restricts it to one of the following ranges:

16-31 or 48-63 or 80-95 or 112-127
or 144-159 or 176-191 or 208-223 or 240-255

Otherwise you may get a black or weirdly distorted screen (I tested it ;-) or must use some tricks and Amiga+M fiddling to get a picture.

[Please also note, that Steve's eMail did change as follows
Steve Quartly: steveq@mafeking.scouts.org.au]

included the original documentation at this place

OPAL.svdriver/Documentation

OPAL.svdriver/Documentation

PROGRAM

OPAL.svdriver

Version 2.3

Release date: 29.6.95

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DISTRIBUTION

Freely distributable with any non-commercial application that uses superview, however all copyright remains with the authors. This distribution archive may not be split for further distribution.

PURPOSE

OPAL.svdriver is an external display driver module for superview.library. It can display superview buffers on an OpalVision display card.

CONTENTS

OPAL.svdriver - This is the driver to copy to LIBS:svdrivers.
OPAL.svdriver.doc - Documentation you are reading now.

USAGE

Select OPAL.svdriver as the display driver from SuperViewPrefs and/or from the superview compatible software you are using.

While conversion for OpalVision is taking place, the following information will be displayed:

OPAL.svdriver version number,
and the image size (which can be larger than the screen size).

REQUIREMENTS

- 1) An OpalVision card :-)
- 2) opal.library must be in LIBS: otherwise the driver will fail with an internal error.
- 3) A minimum of Kickstart 2.0.

CONTROL PAD

ControlPad-Name:
"ENV:SuperView-Library/OPAL.controlpad"

ControlPad-Commands:

OVERSCAN=ON|OFF

Force Opal to display in either overscan or non-overscan. Not specifying an overscan setting informs OPAL.svdriver to intelligently select an overscan screen mode for you.

CENTER_IMAGE

Force the displayed image to be taken from the centre section of the image buffer, i.e. If the image is 640 x 512 and the display mode is LoRes, Non-interlace and CENTER_IMAGE is specified then the top left of the visible display will be 160, 156 offset into the original image.

If not present, the image will be displayed from the top left of the image buffer.

NOTES

Opal images cannot be scrolled yet (until superview supports scrolling images larger than the drivers screen size), so if the picture is larger than the display area, the displayed image will be cropped.

HISTORY

V0.0 First the earth cooled.

V1.0 Initial release.

V2.2 Supports new features of superview.library version 11.6

- Selectable screen modes.
- Control pads for configuration.

V2.3 - Fixed byte aligning of 24 bit images.

- Drastically reduced memory requirements and increased speed by removing the conversion from RGB triplets through RGB planes.

COMPLIER

OPAL.svdriver was written using CED V3.5 and compiled with SAS/C 6.55 on an Amiga 2000/030 and Amiga 4000/040. Enforcer was used to detect and correct programming errors.

BUGS

Should you find any bugs, please report them so that they can be fixed. Likewise any suggestions for improvement of the driver should be forwarded so that they can be addressed.

THANKYOU

Very many thanks to Andreas, the author of Superview.library for implementing some of our suggestions and also for explaining some of the internals of superview.library. Without superview this driver would be a boat anchor. (It would probably float :-)

AUTHORS

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1.85 Retina.svdriver

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Version : 2.14

Release Date : 14.08.1997

Requirements

~~~~~

- OS V2.04+ (V37)+ and its libraries
- AMIGA with Retina Z2/Z3 Graphics Card and Software

```
- retina.library      V7+
- retinaemu.library  V1+
```

#### Description

~~~~~

Retina.svdriver is an external SV_GfxBuffer display module for superview.library, which allows object-oriented displaying on Amigas with the 16/24 bit Retina Workbench Emulation System.

The related Retina-libraries are needed.

This Driver supports the following :

Source	Depth	Special Modes	Dimensions	Dest. Depth
ONEPLANE	8/24	HAM6, HAM8	[Retina-Dependent]	16 / 24
BITPLANE	1..8	HAM6, HAM8	[Retina-Dependent]	16 / 24

HAM6/8 will be converted to 24 bit, which then will either be displayed as 16 or 24 bit.

USAGE

~~~~~

##### RetinaEmu:

-----

For SuperView's "svdRetina-Screen" screen entry, select an AutoScroll-Area of "800x600" and "No Refresh" with "Retina Standard" (Z2) or "Retina Blitter" (Z3) output.

##### RetinaScreenMode:

-----

The Monitor specifications need to be 100% correct.

##### What using instead?

-----

Retina.svdriver always displays graphics in 16/24 bit - so when running on AGA systems, AGA.svdriver would be the better solution for upto 256 Colors. On ECS systems this may only apply to 16/32 Color graphics as long as you don't have OS 3.1 and a RetinaEmu which supports 256 Color Screens for this configuration (should be available).

Otherwise with ECS.svdriver you would still have to specify "8BITOPERATOR" for more than 16/32 Colors, which then would be as slow or even slower.

#### Credits

~~~~~

Thanks to Florian Zeiler (IrseeSoft) for supplying the Gfx Card.

The Retina Emulation Software is of course copyrighted by MS MacroSystem Computer GmbH Germany, which is hereby expressively respected in all points.

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/Retina.controlpad"

ControlPad-Commands : - EMUSCREENDEPTH=<16|24>

; beginning depth for opening Retina Screens

```
; Default is 24 bit (if opening fails, it is  
; also tried to open a 16 Bit Screen, then)
```

#### History

~~~~~

V2.14 (14.08.1997) :

- there was a BSS allocation for "chip" left
- recompiled with SAS/C 6.58

1.86 MERLIN.svdriver

© 1994-96 by Thomas Eigentler,

© 1996-98 by Andreas R. Kleinert.

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Version : 2.9

Release Date : 14.08.1997

Requirements

~~~~~

- OS V2.04+ (V37)+ and its libraries
- AMIGA with MERLIN Graphics Card and Software
- hrgsystem.library V38+
- hrgrender.library V38+

#### Description

~~~~~

MERLIN.svdriver is an external SV_GfxBuffer display module for superview.library, which allows object-oriented displaying on Amigas with the 16/24 bit Merlin Workbench Emulation System.

Original Author

~~~~~

MERLIN.svdriver has been included into the SuperView-Library distribution with friendly permission by the original author, who also supplied the source code to continue development.

Thomas' does no longer continue development of MERLIN.svdriver, which I took over from him, but for any other issues you may Thomas Eigentler reach him via one of his email addresses:

```
FidoNet: Thomas Eigentler 2:246/1511.0  
UseNet:  Thomas_Eigentler@damage.tynet.sub.org  
        thomas.eigentler@student.uni-tuebingen.de
```

#### Credits

~~~~~

The Merlin Emulation Software is of course copyrighted by its authors (ProDev), which is hereby expressively respected in all points.

Thanks go to Mika Lundell and Thomas Eigentler for reporting bugs and doing beta testing.

Notes

~~~~~

It has been reported, that MERLIN.svdriver crashes, when it is tried to open the 040 version of hrgblitter.library on a 060.  
Not a bug of superview.library (-> Thomas Eigentler).

## History

~~~~~

V2.9 (14.08.1997) :

- recompiled with SAS/C 6.58

1.87 XOR.svoperator

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Version : 3.9
Release Date : 02.11.1997

Description

~~~~~

XOR.svoperator is an external SV\_GfxBuffer modification module for superview.library.

XOR.svoperator modifies a graphics in a way, that the color register numbers of the supplied picture's pixels are XOR'ed with a given value, which may be specified via ControlPads (see below).

Note, that the supplied XOR value must be smaller or equal the number of colors, thus smaller or equal  $2^{(\text{depth})} - 1$ .

## ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/XOR.controlpad"
ControlPad-Commands : - XORVALUE=<0..255>
; 0 and 255 will not be the best decision ;-)
; Use 15 or something like this.
; Values greater $(\text{depth}^2)-1$ (is: colors-1) won't
; be accepted.

History

~~~~~

V3.9 (02.11.1997) :

- fixed old bug with graphics < 256 colors

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.88 24BitToHAM.svoperator

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(Also see notes under "Credits".)

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Supports powerUP (TM).

Version : 3.11  
Release Date : 16.02.1998

### Description

~~~~~

24BitToHAM.svoperator is an external SV_GfxBuffer modification module
for superview.library.

24BitToHAM.svoperator dithers 24 bit RGB graphics to HAM6/HAM8,
either quick or well.

ControlPad-Name : "ENV:SuperView-Library/24BitToHAM.controlpad"
ControlPad-Commands : - DITHERMODE=< HAM6_QUICK|HAM6_WELL
|HAM8_QUICK|HAM8_WELL>
; specifies the HAM-Mode to be used and
; the resulting speed/quality

History

~~~~~

V3.11 (16.02.1998) :

- changed for new .svm style PPC modules

V3.10 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.89 Blur.svoperator

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Supports powerUP (TM).

Version : 3.7  
Release Date : 17.11.1998

### Description

~~~~~

Blur.svoperator is an external SV_GfxBuffer modification module
for superview.library.

It applies a Blur style filter to a given graphics.

History

~~~~~

V3.7 (17.11.1998) :

---

- included with public library release (PPC support and 030 version !)

## 1.90 Crop.svoperator

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Version : 3.8  
 Release Date : 14.08.1997

### Description

~~~~~

Crop.svoperator is an external SV_GfxBuffer modification module for superview.library.

Crop.svoperator may extract shapes of any size from any 2..256 Color or 24 bit graphics.

Values for "LeftEdge", "TopEdge", "Width" and "Height", describing the crop box have to be supplied via ControlPad settings.

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/Crop.controlpad"
ControlPad-Commands : - CROP_LEFTEDGE=<Value>
                      ; crop from x position
                      ; (will be adjusted, if >= source width)
                      - CROP_TOPEdge=<Value>
                      ; crop from y position
                      ; (will be adjusted, if >= source height)
                      - CROP_WIDTH=<Value>
                      ; crop how many x pixels from leftedge
                      ; (will be adjusted, if too large)
                      - CROP_HEIGHT=<Value>
                      ; crop how many y pixels from topedge
                      ; (will be adjusted, if too large)
```

### History

~~~~~

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

1.91 Dither24Bit.svoperator

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 (Also see notes under "Credits".)
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 Supports powerUP (TM).

Version : 3.14
 Release Date : 16.02.1998

Description

~~~~~

Dither24Bit.svoperator is an external SV\_GfxBuffer modification module for superview.library.

Dither24Bit.svoperator dithers 24 bit RGB graphics to 256 Colors by default. Possible is also dithering to less colors (2..128), if specified via ControlPad-Settings.

This module applies Heckbert's median cut and dithers using Floyd-Steinberg.

## ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/Dither24Bit.controlpad"
ControlPad-Commands : - COLORDEPTH=<1..8>
                      ; specifies the colordepth of the dithering
                      ; output (1->2 Colors .. 8->256 Colors)
                      - DITHERMODE=<BESTPEN|DITHER_FLOYD-STEINBERG
                        |ORDERED|BURKES>
                      ; whether to just select the best pen or
                      ; do Floyd-Steinberg pixel error adjustment
```

History

~~~~~

V3.14 (16.02.1998) :

- changed for new .svm style PPC modules

V3.13 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.92 HilbertDither256.svoperator

© 1994-98 by Andreas R. Kleinert.

(Also see notes under "Credits".)

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Version : 3.9

Release Date : 21.02.1998

## Description

~~~~~

HilbertDither256.svoperator is an external SV_GfxBuffer modification module for superview.library.

HilbertDither256.svoperator modifies any supplied source SV_GfxBuffer in a way, that all supplied graphics with upto 256 Colors are dithered to Black & White graphics (2 Colors), as e.g. needed for desktop publishing or output on matrix printers.

It uses the fractal Hilbert curve for getting best results in eliminating the resulting errors.

As a side effect, the resulting picture will always have a width and height, which is divideable by 16 (graphics will be adjusted this way).

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/HilbertDither256.controlpad"

ControlPad-Commands : - BACKGROUND=<BLACK|WHITE>  
; defines, which of the two colors will act  
; as background color. Useful e.g. for printing.

History

~~~~~

V3.9 (21.02.1998) :

- added PPC support (via optional plugin)
- improved memory handling
- now correctly rejects HAM, as it already should have from the very beginning (bug!)

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

1.93 AnyTo24Bit.svoperator

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Supports powerUP (TM).

Version : 3.9

Release Date : 21.02.1998

Description

~~~~~

AnyTo24Bit.svoperator is an external SV\_GfxBuffer modification module for superview.library.

AnyTo24Bit.svoperator converts any input graphics into TrueColor RGB graphics with 24 bit.

Input may be any (upto) 256 Color graphics or HAM6/HAM8 data.

History

~~~~~

V3.9 (21.02.1998) :

- added PPC support (via optional plugin)
- fixed possible bug in HAM viewmode handling
- fixed bug in EHB viewmode/info handling

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58
-

1.94 ExtractGrayScales

© 1994-98 by Andreas R. Kleinert.

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Version : 3.8
Release Date : 14.08.1997

Description

~~~~~

ExtractGrayScales.svoperator is an external SV\_GfxBuffer modification module for superview.library.

ExtractGrayScales.svoperator modifies any supplied source SV\_GfxBuffer in a way, that its colormap will be changed to reflect gray-scales (works with (upto) 256 Colors and 24 bit files).  
Output is done in input colordepth or 256 Colors by default (fastest).

This is a sample SVOperator for simple demonstration how to write one. It's simple, but effective.

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/ExtractGrayScales.controlpad"
ControlPad-Commands : - COLORDEPTH=<1..8>
                      ; specifies the colordepth of the grayscaled
                      ; output (1->2 Colors .. 8->256 Colors)
                      - QUICK
                      ; uses >>2, >>1, >>3 (*0.25, *0.5, *0.125)
                      ; instead of *0.3, *0.59, *0.11
```

History

~~~~~

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.95 ExtractRed

© 1994-98 by Andreas R. Kleinert.

FREEWARE. All rights reserved. Only to be distributed with SuperView-Library.

Version : 3.8  
Release Date : 14.08.1997

Description

~~~~~

ExtractRed.svoperator is an external SV_GfxBuffer modification module for superview.library.

ExtractRed.svoperator modifies any supplied source SV_GfxBuffer in a way, that only the RED values of a picture will be extracted for creation of a new (upto) 256 Color graphics (works with (upto) 256 Colors and 24 bit files).

History

~~~~~

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.96 ExtractGreen

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Version : 3.8

Release Date : 14.08.1997

Description

~~~~~

ExtractGreen.svoperator is an external SV_GfxBuffer modification module for superview.library.

ExtractGreen.svoperator modifies any supplied source SV_GfxBuffer in a way, that only the GREEN values of a picture will be extracted for creation of a new (upto) 256 Color graphics (works with (upto) 256 Colors and 24 bit files).

History

~~~~~

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.97 ExtractBlue

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Version : 3.8

Release Date : 14.08.1997

Description

~~~~~

ExtractBlue.svoperator is an external SV_GfxBuffer modification module for superview.library.

ExtractBlue.svoperator modifies any supplied source SV_GfxBuffer in a way, that only the BLUE values of a picture will be extracted for creation of a new (upto) 256 Color graphics (works with (upto) 256 Colors and 24 bit files).

History

~~~~~

V3.8 (14.08.1997) :

---

- recompiled with SAS/C 6.58

## 1.98 TopToBottom

© 1994-98 by Andreas R. Kleinert.

FREEWARE. All rights reserved. Only to be distributed with SuperView-Library.

Version : 3.8  
Release Date : 14.08.1997

Description

~~~~~

TopToBottom.svoperator is an external SV_GfxBuffer modification module for superview.library.

TopToBottom.svoperator modifies any supplied source SV_GfxBuffer in a way, that it will be swapped from bottom to top (works with (upto) 256 Colors and 24 bit files).

History

~~~~~

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.99 LeftToRight

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Version : 3.8  
Release Date : 14.08.1997

Description

~~~~~

LeftToRight.svoperator is an external SV_GfxBuffer modification module for superview.library.

LeftToRight.svoperator modifies any supplied source SV_GfxBuffer in a way, that it will be swapped from left to right (mirrored) (works with (upto) 256 Colors and 24 bit files).

History

~~~~~

V3.8 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.100 Rotate

---





```

- METHOD=<MIDDLE|GIVENPOINT>
  ; default is rotation about the middle
- X_COORD=<Value>
  ; if METHOD=GIVENPOINT we need (X/Y)
  ; Default is (0/0)
- Y_COORD=<Value>
  ; if METHOD=GIVENPOINT we need (X/Y)
  ; Default is (0/0)
- KEEPSIZE
  ; if this keyword is set, it is NOT tried to
  ; readjust the image size and to center the
  ; image, so that parts, which would be out of
  ; range won't be cut off (which works best
  ; with (X/Y) pairs in the left, upper quarter)

```

#### History

~~~~~

V3.13 (05.04.1998) :

- now using mathffp/mathtrans.library: smaller, faster (68k only)
- now using libmoto.a: faster (PPC only)
- better optimization, compiler settings
- there was a major bug in the algorithm, which could cause patterns of black pixels within the image (-> Tilo Hanich, Florian Zeiler). This has been fixed; for this, the algorithm completely had to be redesigned and rewritten.
- heavy optimization on the new algorithm

V3.12 (19.02.1998) :

- changed for new .svm style PPC modules
- fixed size calculation for resulting image; plus added special cases for 90/270 and 180/360 degrees

V3.11 (14.08.1997) :

- recompiled with SAS/C 6.58

1.102 Scale50

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Version : 3.10
Release Date : 16.02.1998

Description

~~~~~

Scale50.svoperator is an external SV\_GfxBuffer modification module for superview.library.

Scale50.svoperator scales any (upto) 256 Color or 24 bit graphics to their half size by default.

The default behaviour may be overwritten via controlpad settings,

which also allows to double the size instead.

ControlPad-Switches

~~~~~

ControlPad-Name : "ENV:SuperView-Library/Scale50.controlpad"

ControlPad-Commands : - METHOD=<HALF|DOUBLE>
; scale to which size ?

History

~~~~~

V3.10 (16.02.1998) :

- changed for new .svm style PPC modules

V3.9 (14.08.1997) :

- recompiled with SAS/C 6.58

### 1.103 Sharpen.svoperator

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Supports powerUP (TM).

Version : 3.7

Release Date : 17.11.1998

Description

~~~~~

Sharpen.svoperator is an external SV_GfxBuffer modification module
for superview.library.

It applies a Sharpen style operator to a given graphics.

History

~~~~~

V3.7 (17.11.1998) :

- included with public library release (PPC support and 030 version !)

### 1.104 CallPNM

© 1995-98 by Andreas R. Kleinert.

FREEWARE. All rights reserved. Only to be distributed with SuperView-Library.

Version : 3.8

Release Date : 01.04.1998

Description

~~~~~

CallPNM.svoperator is an external SV_GfxBuffer modification module
for superview.library.

This is not an operator in the common sense.

Instead it is just an Interface to allow easy access to any external operators from the well known PBM package (distributed as NetPBM).

When using this operator, the given GfxBuffer will be saved as a 24 bit PNM file (8 Bit input as well), after that the specified PBM program module will be externally called and its output will be written into another temporary file.

This file then will be parsed through superview.library (perhaps it will be in PNM format, but one never know) and the buffer will be returned as the result of the "CallPNM" operation.

Please note, that the whole internal construction of the operator is a little bit more complicated than usual, so that any error handling will perhaps not always result in very clear statements (can't parse the output of the PBM programs).

BTW, any temporary files will of course be placed into "VMEM:", from where they will be deleted later.

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/CallPNM.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
                      ; stacksize to be used for calling PNM program,
                      ; increasing may help on crashes
                      ; default is: 32768
                      - PNMCOMMAND=<PBM command path and name>
                      ; PNM command to be called
                      ; e.g. PNMCOMMAND=Work:NetPBM/pnm/pnmscale
                      - PNMOPTIONS=<Options>
                      ; Options for PNM command to be called
                      ; e.g. PNMOPTIONS=-xscale 2.0 -yscale 2.0
```

#### History

~~~~~

V3.8 (01.04.1998) :

- changed way of calling the program (SystemTagList), which should fix some crashes on certain programs/graphics
- added possibility to increase stacksize, when necessary (crashes ?)

V3.7 (14.08.1997) :

- recompiled with SAS/C 6.58

1.105 OptimizePalette

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Version : 3.10
Release Date : 21.02.1998

Description
~~~~~

OptimizePalette.svoperator is an external SV\_GfxBuffer modification module for superview.library.

OptimizePalette.svoperator filters all unused colors out of a palette of a given graphics with upto 256 Colors (EHB, HAM6/8 and 24 bit graphics will be rejected).

A new palette will be created - which also misses any duplicate color table entries - to which then the given graphics is remapped.

This Operator may have three effects (plus combinations):

- a) none, if the palette already was or has been optimized
- b) only some black colors at the end of the color map, if removing of unused colors did not suffice to fall back to the next lower depth boundary (<= 256 to <= 1, 2, 4, 8, 16, 32, 64 or 128)
- c) a reduced colordepth to one of the next lower depth boundaries (as described under b) if there've been a lot of actually unused colors
- d) combinations of b) and c)

History  
~~~~~

V3.10 (21.02.1998) :

- added missing __saveds
- added PPC support (via optional plugin)

V3.9 (14.08.1997) :

- recompiled with SAS/C 6.58

1.106 PaletteDither.svoperator

© 1996 by Andreas R. Kleinert.

(Also see notes under "Credits".)

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Version : 3.10
Release Date : 19.02.1998

Description
~~~~~

PaletteDither.svoperator is an external SV\_GfxBuffer modification module for superview.library.

PaletteDither.svoperator dithers 24 bit RGB graphics 2..256 color graphics by using a selectable number of colors from a specified

---

fixed palette for that (taken from a given graphics file) and calculating the (optional) rest by itself.

This is useful for creation of ANIMations, where the palette for all single frames have to be (mostly) identical or for games and other applications where the palette of used graphics have to harmonize together.

ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:SuperView-Library/PaletteDither.controlpad"
ControlPad-Commands : - COLORDEPTH=<1..8>
                      ; specifies the colordepth of the final,
                      ; dithered graphics (1..8 for 2..256 colors)
- DITHERMODE=<BESTPEN|DITHER_FLOYD-STEINBERG>
                      ; whether to just select the best pen or
                      ; do Floyd-Steinberg pixel error adjustment
- PALETTEDEPTH=<1..8>
                      ; number of colors (depth) to be taken from the
                      ; fixed palette - the possible rest will be
                      ; generated (if specifying more palette colors
                      ; than available, all available will be taken)
- PALETTEFILE=<palette graphics filename>
                      ; any 2..256 color graphics file, of which
                      ; superview.library is able to extract a
                      ; palette from (for example an IFF-ILBM file,
                      ; but including a BMHD and - maybe empty - BODY).
                      ; Allows to take one graphics as sample for
                      ; the others (concerning the palette).
```

History

~~~~~

V3.10 (19.02.1998) :

- fixed bug in colormap calculation
- added PPC support (via optional plugin)

V3.9 (14.08.1997) :

- recompiled with SAS/C 6.58

## 1.107 Requirements for the SuperView-Library Package

Generally, you need at least an 68000 Amiga, running with OS ←  
2.04+.

Better performance results require better software/hardware.

More requirements (software, hardware, legal):

- o The GUI of the  
SVPrefs  
program has been designed with StormWizard 2.0,  
so this program needs "wizard.library" V37+ (you can find a copy on Aminet  
under "biz/haage/WizardLibrary.lha").
- \textdegree{} For usage of the IFF-based SVObjects, like ILBM, ACBM, PBM, DEEP

and YUVN, you should take care to have `iffparse.library V37+` on your bootdisk or system partition.

\textdegree{} For `DataType` support with OS 3.x+ you need `datatypes.library V39` ←  
 +  
 to be present. If it is not present, `datatype-support` is disabled, but you might not need it, anyway.

\textdegree{} For being able to use 24 bit `Datatypes` extension, you need Ralph Schmidt's `picture.datatype V43` to be installed (with ECS/AGA you'll also need a version of `cyberncg.library`, which had been removed from newer `pic-dt 43` distributions). The `picture.datatype V43` which is coming with the `Picasso96 RTG` package will work as well, even with ECS/AGA.

\textdegree{} `Postscript (TM)` support via `GhostScript.svobject` and `EPS.svobject` requires `Ghostscript` being correctly installed and configured. Without working `GhostScript.svobject` and a special flag set, `EPS.svobject` will not be able to extract any of the `Postscript (TM)` data from `EPS(F)` files, but only the possibly included preview images from the header (which usually are `TIFFs`).

\textdegree{} `FIG (-> AmiFIG)` support requires both, `Ghostscript` and `AmiFIG.svobject`

,  
 being correctly installed and configured.

\textdegree{} `CGM (-> GPlot)` support requires both, `Ghostscript` and `GPlot.svobject`

,  
 being correctly installed and configured.

\textdegree{} `WMF/AMF/IFF-DR2D/DXF/WPG-Vector (-> MetaView)` support requires `MetaView.svobject`, being correctly installed and configured.

\textdegree{} `SVG.svobject`, `Unpack.svobject` and `RGFX.svobject` may/will require ←  
`xpkmaster.library` to work fully/properly. The `Xpk` package can be found on Aminet as `Aminet:util/pack/xpk_User.lha` (also present are `xpk_Develop.lha` and `xpk_Source.lha`).

\textdegree{} `AmiIcon.svobject` optionally supports `newicon.library` for reading ←  
 /writing `NewIcons`. The `NewIcon` package can be found on Aminet as `Aminet:util/wb/` ←  
`NewIcon#?.lha` (replace `#?` with the corresponding version number).

\textdegree{} Support for highest `PhotoCD` resolutions `BASE*4 (1536x1024)` and ←  
`BASE*16 (3072x2048)` does require the `NetPBM-Tool "hpcdtoppm"` to be installed and configured for use with `PCD.svobject`. See `PCD.svobject` description for more information. The lower resolutions upto `BASE (768x512)` will work ←  
 without.

`GIF` is obsolete - you neither should use nor support it any longer. If you are doing WWW design, use `PNG` and `JPEG` instead. It's important !

Additionally there are some more requirements, which do not

necessarily depend on the OS or the hardware:

\textdegree{} Some SVOjects, SVDdrivers or SVOperators additionally require different hardware/software configurations, but usually this is stated within their own documentation.

Turbo versions will be installed by the installer-script automatically, if it makes sense (CPU auto-detection - should even work with 68060).

## 1.108 NotesAndHints

### Notes and Hints

How much Memory does this program eat ?!

Problems with displaying 24 bit files

Problems with converting 24 bit files

## 1.109 Memory Usage

How much Memory does this program eat ?!

~~~~~

Simply enough, there are no fixed limits ...

Superview.library and its attached SVOjects, SVDdrivers and SVOperators request as much memory as they need - which directly depends on the size of the processed graphics - and there's no automatic virtual memory manager or such (I added some virtual memory support, but up to now there aren't any modules making use of it).

But actually no CHIP memory is needed for most of the actions (only some chunky-to-planar conversion operations and some specific SVDdrivers may make use of CHIP memory) - so perhaps nearly anything will be performed in FAST ram, when your configuration offers enough. You should have at least 2 MB Ram at all (1 CHIP, 1 FAST or 2 CHIP), better 4 MB (2 CHIP, 2 FAST) or more.

The large memory usage results out of the buffering-technique, which is used with the SuperView-Library.

This technique increases memory usage by using large (full-sized) buffers, which often do exist twice e.g. for conversion from chunky-pixel to bitplane format or vice versa.

But this increases SPEED !!

There are perhaps no "real" multimedia-systems out there, which have less than 6 - 16 MB and why shouldn't we use this memory (you may BTW use VMM or so, if you don't have so much RAM).

Anyway, here's a check-list for what you can do to make more memory available to superview.library :

- o first of all, check if there are some background-programs running, which you do not really need (especially Commodities). Remove them !
- o call "avail flush" in the Shell or select "flushlibs" in the WB-debug menu (available when started with "LoadWB -debug"). (SuperView and Image Engineer do also allow flushing Libraries directly fromout the program.)
- o decrease the "AddBuffers" values of drives, which you do not really need (e.g. DF2, DF3, PC0, ...)
- o last not least : leave/close Workbench, stay in the Shell
- o start your favorite viewer or conversion program (e.g. SuperView)
- o again: call "avail flush" (this time also all unused SVOjects and SVDrivers will be flushed out of the memory, so that we later only will have the needed ones in Ram)

If you tried all of the above, and memory still does not suffice, you should buy some more SIMMs at your local Computer Shop...

1.110 Displaying 24 bit graphics

The Problem

 "All of my attempts in displaying my really nice 24 bit graphics with AGA.svobject resulted in really ugly colors. What shall I do ?"

The Reason

 You did not set an available or valid 24 bit SVOperator, which could have been used by the selected SVDriver (e.g. AGA.svdriver, ECS.svdriver) adjusting the number of colors to less than 256 (by dithering, conversion to gray, etc.).

The solution

-
- o Within the SVDriver's controlpad settings file (e.g. AGA.controlpad, ECS.controlpad) you may set "24BITOPERATOR=<operatorname>" and specify a specific operator for e.g. dithering 24 bit graphics to 256 colors (Dither24Bit), converting them to grayscales (ExtractGrayScales) or HAM6/8 (24BitToHam), etc.
 - o The same trick may take place for ECS.svdriver on systems, which can't display more than 16/32 (64EHB) colors, so that specifying the (optional) "8BITOPERATOR=<operatorname>" would allow automatic conversion to less colors.
 - o Besides this, a special case perhaps perhaps is the combination of AGA.svdriver and JPEG.svobject, where it may be good for
-

performance and memory usage to simply use the internal on-the-fly dithering of JPEG.svobject, which then simply does not make 24 bit, but 256 color output anymore, when the colordepth controlpad switch has been set as: "COLORDEPTH=8" within JPEG.controlpad.

These default settings intuitively can be changed via
SVPrefs

or possibly via your application's GUI as well.

- o An other possibly way is, to always do the dithering only when needed - by simply invoking the needed SVOperator fromout your application's GUI.

1.111 Converting 24 bit graphics

The Problem

You have problems converting from one 24 bit file format into other 24 bit file formats ?

The Reason

Not necessarily all SVOjects, which support reading of 24 bit files do also support writing of 24 bit files.

SVOjects, which support writing 24 bit data yet are for example:

non-lossy

IFF-ILBM	BMP	Targa	SunRaster	PNG
IFF-DEEP	PCX	PNM	SGI	SVG
IFF-RGB8	TIFF	QRT	FBM	UtahRLE

lossy

IFF-YUVN	EPS	C-Source
JPEG		PNM (when in Raw-Mode)
Limbo		

The solution

A temporary solution might be to use other 24 bit programs for conversion, if you don't want to use one of the file formats, which are already supported.

1.112 SVPrefs

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Version : 22.1
 Release Date : 18.11.1998

Description

~~~~~

SVPrefs is the Preferences Program for superview.library.

Any specific ControlPad settings for superview.library, superviewsupport.library and all the SVOjects, SVDdrivers and SVOperators may be modified from out here in a comfortable GUI-based way - as long as these ControlPad requirements are documented in form of a CPInfo-file placed in ENVARC:SuperView-Library (as usually).

Additionally, adding and removing of single SVOjects, SVDdrivers or SVOperators is possible from here, if no other program is accessing superview.library and the related modules at the same time (to keep the internal lists valid).

#### Inclusion and Exclusion: Explanation

-----

As one of the newest features of superview.library, you may also decide here, which of the installed SVOjects, SVDdrivers and/or SVOperators should not be loaded into memory at startup time. This works as follows:

- excluded modules will be written to a specific configuration file at ENVARC:superview-Library and ENV:superview-Library (svobjects.exclude, svdrivers.exclude, svoperators.exclude)
- excluded modules will not be opened when the library starts its initialization phase, which means that these modules will never be loaded. May speed up opening and save memory. On the other side, these modules are not available as long as you don't re-add them to the system, either only temporarily or also by re-including. So you only should apply this to modules you seldomly or never use, but don't want to de-install (everytime) nevertheless.
- any of these modules may temporarily be loaded via the "Add" function of SVPrefs as well as these (or others) may again temporarily be removed
- SVPrefs can apply (re)inclusion and exclusion to modules currently held in memory (to re-include an currently excluded module you at first have to re-load it via "Add")

#### Inclusion and Exclusion: Overview

-----

|                     |                 |
|---------------------|-----------------|
| INCLUDE temporarily | ADD             |
| permanently         | ADD, INCLUDE    |
| EXCLUDE temporarily | REMOVE          |
| permanently         | EXCLUDE, REMOVE |

If you don't need that feature: simply don't use it...

## Commandline Options

~~~~~

1. INIT

Syntax: SVPrefs INIT
 Explanation: Initializes ppc.library

2. SET

Syntax: SVPrefs SET file NAME [VALUE]
 Explanation: Can be used to change controlpad settings fromout
 the Shell or an ARExx script
 Example: 1. SVPrefs SET AGA 24BITOPERATOR Dither24Bit
 (sets 24BITOPERATOR=Dither24Bit in ENV:SuperView-Library/AGA. ↔
 controlpad)
 2. SVPrefs SET AGA SCREENINFRONT
 (sets keyword SCREENINFRONT in ENV:SuperView-Library/AGA. ↔
 controlpad)

Requirements

~~~~~

GUI has been designed with StormWizard 2.0, so this program needs  
 "wizard.library" V37+ (you can find a copy on Aminet under  
 "biz/haage/WizardLibrary.lha").

## History

~~~~~

SVPrefs' version depends on the version of
 superview.library it first has been included with.

V22.1 (18.11.1998) :

- adjusted version requirements

V21.10 (07.10.1998) :

- maybe skipped some revisions...

V21.5 (03.07.1998) :

- the stack as given in the program icon was far too small
 (4096 bytes), which caused crashes when started from WB.
 Increased to 32768 bytes.
 (-> Gertrud Kiefer, Wolfgang Krause, various)

V21.3 (12.06.1998) :

- fixed nasty bug in "?" (preferences) with the slider/integer
 combination (slider was not precise enough, integer gadget
 did not allow to modify slider value, changes were not kept)
- fixed certain conditional enforcer hits within the prefs'
 slider and string selection routines
 (-> Sven Drieling)

V21.2 (05.04.1998) :

- added commandline option "SET" for changing controlpad settings fromout the shell or (ARexx) scripts (-> Tilo Hanich)
- documented INIT command
- no longer detaches from CLI (not useful in scripts)

V20.1 (07.02.1998) :

- the gadgets for "Library" and "Support-Library" preferences had been switched

V19.5 (31.10.1997) :

- small GUI changes (-> Georg Rottlaender)
- fixed revision history

V19.4 (19.10.1997) :

- fixed small bug
- new Wizard-GUI with lots of improvements done by Georg Rottlaender <Georg.Rottlaender@home.ivm.de>
- the screen had been locked twice, but only unlocked once (closing not possible) (-> Georg Rottlaender)

V19.3 (27.09.1997) :

- misc

V19.2 (21.09.1997) :

- cleaned version history
- now using StormWizard for GUI creation, wizard.library V37 required
- some more gimmicks
- ensuring, that ppc.library already is in memory, before superviewsupport.library does try to open it (-> Frank Mariak)
- added "INIT" option, which does ensure this, too. To be called as "SYS:Prefs/SVPrefs >NIL: <NIL: INIT" from S:User-Startup (see revised installation description)

1.113 SuperViewSupport-Library

© 1994-98 by Andreas R. Kleinert.

FREWARE. All rights reserved. Only to be distributed with SuperView-Library. Supports powerUP (TM).

Version : 13.2
Release Date : 20.02.1999

Description

~~~~~

superviewsupport.library contains functions, which are heavily used by the superview.library and its SVOjects, SVDrivers and SVOperators.

superviewsupport.library helps saving disk space by just holding this functions for usage by the other libraries, also some superview.library debugging functions are included.

## ControlPad-Switches

~~~~~

```
ControlPad-Name      : "ENV:superview-library/superviewsupport.controlpad"
ControlPad-Commands : - C2P=<OS|SV>
                      ; determines, whether chunky to planar conversion
                      ; is managed via the appropriate OS functions
                      ; or via internal ones.
                      ; Due to various problems with the OS functions
                      ; "SV" is now default.
                      ; Be careful when using "OS" with GfxCards,
                      ; which carelessly patched graphics.library.
                      ;
                      ; NOTE: PPC code will automatically be utilited,
                      ;       when a PPC is available, but only with
                      ;       C2P=SV
                      ;
                      ; Default: SV
- MODEGEN=<OS|SV|SVEXT>
  ; determines, whether viewmode generation should
  ; rely on internal/OS functions only, or make
  ; use of P96/CGfx(/PII) functions when available.
  ; Similar to ModeP. "SV" may cause problems on
  ; some systems, may work fine on others.
  ; "SVEXT" is known from the ak-datatypes series.
  ; Note: applicable for OS 3.0 and beyond, only.
  ; Default: OS
```

History

~~~~~

V13.2 (20.02.1999) :

- additional \$VER string to make everyone happy

V13.1 (18.11.1998) :

- bumped to V13 (new requirement for superview.library V22+)
- fixed error handling for cgfx-based screen grabbing (RTG 24 bit mode)

V12.4 (06.09.1998) :

- smaller, faster

V12.3 (28.06.1998) :

- added another optional alternative viewmode generation routine (already known from the ak-datatypes series)

V12.2 (03.04.1998) :

- forgot to mention 12.1 (upgraded ppc modules to new .svm format)
- recompiled (especially PPC modules)

V11.5 (24.12.1997) :

- new preferences option for viewmode generation
- fixed another possible problem in the viewmode generation

V11.4 (2.12.1997) :

- AI's original CheckSetPatch routine was buggy, it actually did the opposite as expected: with any version lower or equal it did return TRUE, for any greater version it returned FALSE. Since we check for V43.4, it would only have worked with this one - otherwise we applied our bugfix, although it was no longer necessary, and with e.g. V40.16 there would not have been a bug-fix at all!  
This could have resulted in a destroyed source bitmap graphics, i.e. a black screen after certain times of viewing or usage of certain image processing operators.  
(-> 'black screen' effect noticed, and debugging done by Colin J. Knight and Sven Drieling)

V11.3 (19.11.1997) :

- fixed some small oddities in the gfxbuffer allocation routine, smarter now
- SetPatch check routine was missing a \_\_saveds (oops)

V11.2 (27.09.1997) :

- in internal V39 c2p and p2c functions (mode C2P=OS) there was a BMF\_STANDARD missing
- V37 c2p version did allocate a temporary buffer even if not needed/used (when SetPatch 43.x being installed)
- if there's a PPC present, all buffers allocated via SVSUP\_AllocGfxBuffer() will be 32-aligned at the end now (not mentioned in svgfx\_BufferSize, though)

V11.1 (18.09.1997) :

- due to PPC changes, bumped main library version to V11
- c2p conversion should finally have become 'trash-save' under all OS versions, with and without SetPatch V43
- there was a similar (possible) bug for OS V37/38 within CopyScreenToBuffer8()
- fixed small error handling bug in screen-save routine (can't handle 24 Bit under non-CGfx RTG systems)

V10.4 (14.08.1997) :

- recompiled with SAS/C 6.58

V10.3 (29.06.1997) :

---

- fixed 'memory loss on LibInit failure bugfix' ;-)

V10.2 (24.06.1997) :

- fixed "memory loss on LibInit failure" bug

V10.1 (11.04.1997) :

- now support PPC via powerUP's ppc.library for the following tasks:
  - chunky to planar conversion (c2p)
  - planar to chunky conversion (p2c)

V9.1 (02.04.1997) :

- new, universal screen grabbing function with 24 Bit Cybergraphics support added

```
*****
* Older revision descriptions have been deleted to save disk space ! *
*****
```

## 1.114 SuperView in the Press

```
=====
P R E S S   F E E D B A C K   (26.1.1999)
=====
```

Following some excerpts from articles - mainly from the computer press - which directly or indirectly reported about SuperView(/Library) in the past (if german, these have not been translated).

- CU Amiga Magazine (UK)
- Amiga Format (Future Publishing Ltd, UK)
- Amiga Informer (Eldritch Enterprises, US)
- Amiga Computing (IDG Media, UK)
- Amiga Magazin, Amiga Public Domain Sonderheft (Magna Media, Germany)
- Amiga Plus (ICP, Germany)
- Amiga special (media, Germany)

(If you found an article in a magazine I did not list here - please tell me. I'm usually not reading the english magazines, and probably won't be aware of many other reviews, too)

```
*****
```

CU Amiga Magazine (UK)

```
-----
"Now this is a serious piece of work. [...]
When you look into the features list and the PowerPC support,
you see why the author thinks that being too tight to pay the
30 DM (£10) registration fee is a bit out of order. [...]
this is a serious power application. [...]
The whole idea behind this package is that it's
quick and powerful. [...]"
```



There just isn't enough space available to go on over all the features of SuperView NG here, so listen to my advice and get the demo to try it for yourself. [...]

Most definitely a must for serious graphics users."

"Rating: \*\*\*\*\*" [ 5 stars out of 5 ]

[ October issue 1997. Referred to SViewNG 7.xx ]

"SuperView is a new PD picture viewer that relies on 'datatypes'. It also has support for 'operators' which can perform a variety of functions on pictures before they are viewed/saved (eg: sharpening, oil-painting effects and dithering of 24-bit pictures).

"It will load and save virtually all formats [...]"

Rating: 89 percent.

[ March issue 1996. Referred to SuperView 5.32. Information taken from database under <http://www.cu-amiga.co.uk/database/pl11-19.html> ]

Amiga Format (Future Publishing Ltd, UK)

"[...] Picture Manager Pro makes use [...] of Superview libraries [...]"

"[...] Picture Manager Pro is well thought out and silky smooth in operation. [...] It is exceptionally stable [...]"

Rating: 92 percent (Gold Award)

[ January 1998, issue 106. Referred to Picture Manager 4, which heavily makes use of SuperView-Library - so in means of speed and stability the rating perhaps does concern the library, too ]

Amiga Informer (Eldritch Enterprises, US) - [www.amigainformer.com](http://www.amigainformer.com)

"Picture Manager Pro uses the SuperView libraries to integrate the use of scanners, printers, and display boards. This allows versatility as well as modular upgrading. [...] First, using the SuperView processing libraries, it can color correct and enhance the thumbnail images that make up the catalog. There are no other packages I'm aware of with this option. [...] I think that Blittersoft's distribution teamed with Andreas Kleinert's SuperView libraries is a real winner."

[ Issue 10. Referred to Picture Manager 4.1 + Library V19.x ]

"SuperView itself is a neat small viewer program with a window to allow loading and processing images with the included libraries. The program allows optional use of any of the included library functions. It supports over forty graphic formats, along with being able to use datatypes, supports scanners and printers, drives nine different display formats including OCS/ ↔

ECS,

AGA, EGS, OpalVision, Retina, CyberGraphX, Merlin and both Picasso II and Picasso96, and saves in most of the same forty plus formats. [...]

The SuperView libraries are the integral powerhouse of this package.

These shared libraries do all the actual work, allowing the viewing program to be small and versatile. This modular approach also allows for frequent expansion and updating, which the author appears to be dedicated to.

The author Andreas Kleinert deserves a very honorable mention. He is very active and available for debugging and development, as well as attentive, patient and courteous. [...] I think if you take the time to ↔ install

SuperView, you'll agree that it is well worth the space and effort required ↔

."

[ Issue 10. Referred to SuperView 7.x + Library V19.x ]

Amiga Computing (IDG Media, UK)

---

"The SuperViewLibraries [...] allow other programs, that support SuperView to easily load, save, convert and process images with the minimum of ease. This allows programmers to concentrate on perfecting their program without having to worry about supporting every different type of picture format out there."  
[ Issue 12/1995, page 21. Referred to SuperView V5.10 + Library V12.3. The CoverDisk contained ImageEngineer V2.1a and licensed V12.3 ]

"SuperView is a set of libraries, that allows Image Engineer to load and save a large number of different file types, [...]"  
"Installation of SuperView is very straightforward using the standard Amiga installer program, [...]"  
[ Issue 7/1996, page 18/20. Referred to SuperView V5.41 + Library V12.9. The CoverDisk contained ImageEngineer V3.0 Demo and licensed V12.9 ]

Amiga Magazin (Magna Media, Germany)

---

"Zum Betrachten von Bildern ist dieses PD-Programm wohl die beste Lösung. [...]"  
[ Issue 12/1994, p. 120. Referred to SuperView V2.1 ]

\*\*\*

"[...] SuperView besticht durch seinen modularen Aufbau. [...] SuperView kennt sehr viele Bildformate. Jedes Format wird durch ein SVOobject verwaltet. Das erlaubt eine flexible Erweiterbarkeit des Programms. [...] Daß das Programm [...] alle Features des Amiga-OS bis hin zur Version 3.1 unterstützt [...] ist angesichts des großen Funktionsumfangs klar. [...]"  
Fazit: SuperView ist ein sehr leistungsfähiger Bildanzeiger und eine echte Konkurrenz [...]"  
[ Issue 7/1995, p. 134. Referred to SuperView V4.52 on Time #386 ]

\*\*\*

"[...] Das Programm ist komplett modular aufgebaut und somit erweiterbar. Sogar die Benutzerschnittstelle ist austauschbar. [...]"  
[ Issue 2/1996, p. 50. Referred to SuperView V5.10 on German #561 ]

\*\*\*

"'SuperView' als Bildanzeiger zu beschreiben, wäre nur die halbe Wahrheit. Diese Aufgabe erfüllt das Programm zwar mit Bravour, hält aber noch anderes auf Lager. [...]"  
[ Issue 4/1996, p. 92. Referred to SuperView V5.32 on Time #486 ]

\*\*\*

"[...] Es dürfte kaum ein Bitmap-Format geben, mit dem der PM nichts anfangen kann. [...]"  
[ Issue 3/1997, p. 87. Article about Picture Manager professional (PMPro) V4.0, which uses superview.library 15.x for images ]

\*\*\*

"[...] Andreas Kleinerts Programm trennt die Spreu vom Weizen. [...] Es repräsentiert auch bedeutend mehr als andere Bild-Anzeigeprogramme. Zahlreiche Effekte bringen einen Hauch von Bildbearbeitung. [...] Durch sein modulares Aufbaukonzept kann man 'SuperViewNG' jederzeit um weitere Funktionen erweitern [...]"

---

Fazit: Bilder werden schnell angezeigt; die unkomplizierte Benutzeroberfläche erlaubt problemlose Anzeige. [...]"  
 [ Issue 9/1997, p. 35. Article about SViewNG 6.21 ]

\*\*\*

"Meister der Bildformate"  
 [...] Umwandeln von Bildern erledigt SuperView tatsächlich mit links. [...] SuperView II hat einen leistungsfähigen ARexx-Port und läßt sich auch als AmigaDOS-Befehl ansprechen. [...] Als Bildumwandlungsprogramm weiß SuperView zu überzeugen. Kaum ein anderes Programm unterstützt so viele Formate wie SuperView. [...]"  
 [ Issue 2/1999, p. 13/14. Article about SViewII 8.20 ]

\*\*\*

"Viele neue Features ergeben sich aus der Verwendung einer neuen SuperView-Library. [...]"  
 "[...] besserer PowerPC-Support (u.a. bei TIF, JPEG und PNG [...]"  
 [ Issue 2/1999, p. 10-12. Article about Picture Manager professional (PMPPro) V5.5., which uses superview.library 21.x for images ]

Amiga Plus (ICP, Germany)

-----  
 "SuperView benutzt zwar auch ab OS3.0 Datatypes, zeigt aber ab OS2.0 auch bereits IFF-, [...] -Grafiken an. Erreicht wird dies durch eine eigene 'superview.library', die [...] es ermöglicht, Grafiken in diesen Formaten zu speichern"  
 [ Issue 7/1994, p. 42. Referred to SuperView V2.1 ]

\*\*\*

"Wir haben für Sie eine Auswahl der besten und wichtigsten Tools und Utilities aus allen Sparten des Computeralltags zusammengetragen" [...]"  
 "SuperView [...] Bildanzeiger, der ab OS3 Datatypes zum Erkennen der Grafikformate verwendet. Mit Hilfe der SuperView-Library sind die wichtigsten Formate auch ab OS2 lesbar."  
 [ Issue 4/1995, p. 46. Referred to SuperView V2.1 ]

\*\*\*

[ Formatvielfalt, Konvertierung ]  
 "[...] Dieses Kunststück verdankt unser Testkandidat unter anderem der exzellenten SuperView.library von Andreas Kleinert [...]"  
 [ Issue 2/1996, p. 73. Article about Picture Manager professional (PMPPro) V3.0, with superview.library 12.x ]

\*\*\*

"SuperView [...] ist ein Anzeiger, der durch unzählige externe Module erweiterbar ist und alle erdenklichen Bildformate auf ECS- und AGA-Amigas, sowie auf EGS-, OpalVision, Picasso-, Merlin-, Retina- und CyberGraphX-Grafikkarten darstellt. [...]"  
 [ Issue 3/1996, p. 61. Referred to SuperView V4.63, V4.70, V5.10 ]

\*\*\*

"'SuperView' zeichnet sich durch seine Vielseitigkeit aus. [...] Mehr als nur ein kleiner Bonus sind die 31 Operatoren [...]. Selbstverständlich lassen sich die Bilder auch wieder speichern. [...]"  
 [ Issue 6/1996, p. 43. Referred to SuperView V5.32 ]

\*\*\*

"[...] Dieses Programm unterstützt eine deutlich höhere Anzahl von Bildformaten (wie PCX, BMP und TIFF) und kann auch Effekte hinzufügen und Bilder zwischen verschiedenen Formaten konvertieren [...]"

[ Issue 9/1996, p. 58. Referred to SuperView V5.30 ]

\*\*\*

"[...] In der Ausgabe 6/96 haben wir Ihnen das hervorragende Anzeige- und Konvertierungsprogramm 'SuperView' vorgestellt. [...] SuperView beherrscht eine Vielzahl von Grafikformaten" " [...] Neben IFF-ILBM, GIF, JPEG und TIFF beherrscht SuperView unter anderem auch die Formate BMP, Targa, PNM, FBM, PCX, IFF-ACBM, IFF-YUVN, IFF-DEEP, Sun Raster, SGI, RT, UtahRLE und SVO. Puh. [...]"

[ Issue 10/1996, p. 39. Referred to SuperView V5.50 ]

\*\*\*

"[...] Image Engineer verwendet die Superview-Library und versteht daher beim Laden und Schreiben eine Vielzahl von Formaten, unter anderem IFF, GIF, [...]"

[ Issue 10/1996, p. 46. Article about Image Engineer 3.1, which uses SuperView-Library ]

\*\*\*

"[...] Die besten Tools für Ihren Amiga [...] Bildanzeiger [...]"

"Wer schnell Grafiken in Top-Qualität sehen will, braucht Bildanzeige-Tools. Ein weitverbreiteter Vertreter dieser Programmattung ist SuperView. [...] SuperView kennt alle wichtigen [...] Grafikformate. [...]"

[ Issue 11/1996, p. 53. Article about "Best Tools For Your Amiga" ]

\*\*\*

"[...] Eine Stärke des Programms ist das automatische Erkennen der vorhandenen Grafikformate [...] Picture Manager unterstützt jetzt auch die Scanner-Software 'ScanQuix3', respektive deren Pseudo-Twain-Standard. [...] Gut gemacht."

[ Issue 1/1997, p. 26. Article about Picture Manager prof. V4.0, which uses SuperView-Library ]

\*\*\*

"[...] Alle weiteren Dateiformate ließen sich bislang nur über das Installieren entsprechender Datatypes nutzen. [...] Damit haben Sie jetzt Zugriff auf nahezu jede Art von Bildmaterial. [...] Über die Qualität und Arbeitsgeschwindigkeit dieser Library braucht man wohl kaum noch ein Wort zu verlieren, sie hat sich mittlerweile zu einer Art Standard bei der automatischen Erkennung von Bild- und Grafiktypen entwickelt. [...]"

[ Issue 2/1997, p. 32. Article about "AE SuperView" plugin for ArtEffect which uses SuperView-Library ]

\*\*\*

"'SuperView' ist eine Art Schweizer Taschenmesser für Computer-Grafiker: [...] Das Programm unterstützt eine stolze Liste von

Formaten: [...]"  
[ Issue 5/1997, p. 45. Overview article about "The best freely  
distributable graphics and animation programs" ]

\*\*\*

"[...] Der Daseinszweck von Andreas Kleinerts Shareware-Programm  
'SViewNG' besteht darin, Grafikdateien anzuzeigen, in andere  
Formate zu konvertieren und sogar zu bearbeiten. Das Programm ist  
dabei sehr schnell, versteht eine Unmenge an Grafikformaten und  
unterstützt erfreulicherweise auch Grafikkarten. [...]  
[ Issue 8/1997, p. 40. Referred to SuperView V6.21 ]

Amiga special (media, Germany)

-----  
"SuperView - Bildbetrachter" [...]  
"Bildanzeiger gibt es viele [...]  
Doch ein Programm, das all dies beherrscht und dabei noch  
anwenderfreundlich und kompakt ist, das fehlte bisher.  
Die Situation hat sich nun geändert [...]"  
"Superview.library [...] Programmierer können mit diesen frei  
vetreibbaren Routinen interessante und komplexe Anwendungen  
realisieren. [...] Sämtliche Module sind [...] gut dokumentiert,  
so daß sich jeder Interessierte schnell zurechtfindet [...]"  
"Die grafische Benutzeroberfläche [...]"  
"Diese [...] ist einleuchtend aufgebaut, so daß man nach kürzester  
Einarbeitung damit klarkommt." [...]  
"Fazit [...] SuperView ist ein tolles Paket zum Anzeigen und  
Bearbeiten von Grafiken [...]. Anwender haben mit SuperView endlich  
einen kleinen und leistungsfähigen Bildanzeiger gefunden, der [...]  
sogar kleine Funktionen zur Bildbearbeitung enthält."  
[ Issue 1/1995, p. 62-63. Article about SuperView V4.0 ]

\*\*\*

"Gerade auch die Unterstützung von Grafikkarten geschieht  
"mit SuperView einfach und effizient." [...]  
[ Issue 6/1995, p. 77. Article about SuperView V4.0 ]

\*\*\*

"Im Zusammenspiel mit der 'SuperView.library' von Andreas Kleinert  
konnte diese Weiterentwicklung [...] seine Leistungsfähigkeit  
eindrucksvoll unter Beweis stellen"  
[ Issue 12/1995, p. 116. Article about Picture Manager Professional  
Beta 0.97 ]

\*\*\*

"SuperView gehört mit zu dem Besten, was im Amiga-Sektor an  
Grafikbetrachtungs-Programmen verfügbar ist. Es ist kompatibel  
mit fast allen gängigen Formaten [...], besitzt [...] eine  
durchdachte und komfortable Oberfläche. Erfreulicherweise trägt  
die mehrsprachige umfangreiche Anleitung [...] und das durchdachte  
Installationsprogramm ebenfalls zum hervorragenden Gesamteindruck  
von 'SuperView' bei."  
[ Issue 5/1996, p. 66. Article about SuperView V5.30 on Time #472 ]

\*\*\*

"[...] Zum Laden und Speichern werden die Libraries von SuperView  
genutzt. [...] Durch diese Libraries werden fast alle Grafikformate

unterstützt, die auf dem Amiga erhältlich sind. Unterstützt werden auch alle bekannten Grafikkarten sowie der AGA-Chipsatz. [...]"  
 [ Issue 9/1996, p. 48. Article about Image Engineer 3.0,  
 which uses SuperView-Library ]

Amiga Public Domain Sonderheft (Magna Media, Germany)

"'SuperView' ist sowohl eine Bibliothek (Library), die Lade- und Speicherformate [...] zur Verfügung stellt, als auch Treiber zum Anzeigen von Bildern. [...] Das Ganze erinnert an die Datatypes des Amiga-OS 3.0, allerdings auf Grafik spezialisiert und um Operatoren und spezielle Grafiktreiber erweitert. Außerdem kann die Library mit 24-Bit-Bildern umgehen." [...]

"In der Library steckt viel Arbeit." [...]

"Fazit: SuperView besitzt potentiell das Zeug zum universellen Bildanzeigeprogramm und Konvertierutility." [...]

[ Issue 2/1995, p. 43. Article about SuperView V4.52 / V10.2 ]

## 1.115 Books and other written stuff used during development

- [ 1] "Bitmapped Graphics", 2nd Edition, Steve Rimmer, Windcrest/McGraw-Hill, © 1993 by Windcrest Books (registered Trademark of TAB Books). ISBN 0-8306-4209-9
- [ 2] "Supercharged Bitmapped Graphics", Steve Rimmer, Windcrest/McGraw-Hill, © 1992 by Windcrest Books (registered Trademark of TAB Books). ISBN 0-8306-3788-5
- [ 3] "Das Handbuch der Grafikformate", Klaus Holtorf, © 1994 Franzis-Verlag GmbH, München ISBN 3-7723-6392-X
- [ 4] "Amiga Magazin", Issue 2/1992, Markt & Technik Verlag AG
- [ 5] "DOS Extra", Issue 4/1993, DMV-Verlag
- [ 6] "Das Aufsteigerbuch" (C64 -> Amiga), Michael Strauch, Alexander Stellmach, © 1987 by DATA BECKER GmbH, Düsseldorf. ISBN 3-89011-134-4
- [ 7] "Formats.doc" of the ShowVIC distribution on SaarAG-Disk #616. ShowVIC is (C)opyright 1993 by Matt Francis.
- [ 8] "Einführung in die digitale Bildverarbeitung", Wolfgang Abmayr, © 1994 B.G. Teubner, Stuttgart. ISBN 3-519-06138-4
- [ 9] "Noch mehr Dateiformate", Günter Born, © 1995 Addison-Wesley (Deutschland) GmbH. ISBN 3-89319-757-5
- [10] The Independent JPEG Group's software package(s) with Source-Code(s) and Documentation. Release 4 through 6b.
- [11] "The Programmer's PC Sourcebook", Thom Hogan, published by Microsoft Press, © 1991 by Thom Hogan. ISBN 1-55615-321-X
- [12] "Struktur und Interpretation von Computerprogrammen", H. Abelson, G.J. Sussman, J. Sussman, Springer-Verlag, © 1985 by the M.I.T, ISBN 3-540-56934-0
- [13] "Algorithmen Arbeitsbuch", Dieter Herrmann, © 1992 Addison-Wesley (Deutschland) GmbH. ISBN 3-89319-481-9
- [14] "C/C++ Users Journal (tm)" (several issues), © Miller Freeman Inc.

[15] ... and perhaps books/magazines/articles, which I don't remember yet !  
 [16] ... as well as texts found on AmiNet, BBS or CD-ROM.  
 [17] Newsgroups in Fido (mostly \*.GER) and UseNet (mostly DE.\* and Z-Netz)  
 ...plus a bunch of Amiga-related books, like RKMs and the Guru Book, etc.

## 1.116 Overview: Other Program Projects

For this, please take a look at:

[http://home.t-online.de/home/Andreas\\_Kleinert/index\\_ami.html](http://home.t-online.de/home/Andreas_Kleinert/index_ami.html)  
 and [http://home.t-online.de/home/Andreas\\_Kleinert/support.htm](http://home.t-online.de/home/Andreas_Kleinert/support.htm)

## 1.117 Credits

24BitToHAM.svoperator  
 -----

This SVOperator bases on code, which has been included with FBM Release 1.0 25-Feb-90 by Michael Mauldin. The original code had been written by Harald C. Koch to convert 24 bit RGB data (FBM format) to HAM6-ILBM files. I modified it to create format-independent 8 Bit chunky pixel buffers, which can be handled by SuperView-Library.

The code used for the "quick" option of the SVOperator (without palette) is not related in any way to code of the FBM package. The ham8-well code originally was derived from fbham.c, but now no longer does show any similarities to it.

Here's the copyright notice as found in "fbham.c"  
 (revision headers cut off / left out) :

```
* fbham.c: FBM Release 1.0 25-Feb-90 Michael Mauldin
*
* Copyright (C) 1989,1990 by C. Harald Koch & Michael Mauldin.
* Permission is granted to use this file in whole or in part for
* any purpose, educational, recreational or commercial, provided
* that this copyright notice is retained unchanged. This software
* is available to all free of charge by anonymous FTP and in the
* UUNET archives.
[...]
```

```
*
* based on ray2.c from DBW_Render, Copyright 1987 David B. Wecker
*
[...]
```

AmiFIG.svobject  
 -----

This FIG support module accesses the external program "fig2dev", which for example is available as port of the fig port AmiFIG 1.1 from AmiNet, which is (C) 1996 Andreas Schmidt.

## C64.svobject

-----

For getting information about the C64 Koala and Doodle formats I took a look into the source code of ComView 1.0 by Paul Grebenc, which can be found as "C64View" on the SaarAG-Disk #523.

I did not include and use the Source Code as such, but I really learnt a much out of it. The algorithms are perhaps nearly the same, but because I do not use file-to-screen decoding my code is perhaps some 100% faster (different structure, many optimizations).

## EPS.svobject

-----

EPS.svobject uses strongly modified code from

```
/* pnmtops.c - read a portable anymap and produce a PostScript file
**
** Copyright (C) 1989 by Jef Poskanzer.
**
[...]
```

which is allowed by its copyright statements.

## FBM.svobject

-----

For getting information on the FBM-Format I took a look into the file "fbm.h" and other source-files, which describe this file format and are part of FBM Release 1.0 25-Feb-90 by Michael Mauldin. No source-code from this package - only the "pure information" - has been used for FBM.svobject.

## GhostScript.svobject

-----

GhostScript.svobject accesses an external Ghostscript port, like for example Ghostscript 3.53 from AmiNet, which is based on Aladdin Ghostscript. Aladdin Ghostscript is Copyright (C) 1989, 1995 Aladdin Enterprises. All rights reserved.

## Limbo.svobject

-----

Limbo.svobject does support the Limbo 4.0 port from Aminet:gfx/conv, which was based on a version developed by Carsten Frigaard, Jess Gade, Thomas Therp Hemmingsen and Torben Sand in 1993/94 on Aalborg University, Denmark.

## JPEG.svobject

-----

This software is based in part on the work of the Independent JPEG Group. Various releases, starting with V4, have been used. Current release: V6b.



PICT.svobject

-----

The PICT loader module is based on code derived from the PBM package, namely the standalone-module "picttoppm.c".

It is said it can be used freely, so I decided to do this instead of trying to implement this weird PICT-2 stuff of QuickDraw (is it a vector format or a bitmap format ;-)

The original source has been strongly modified to fulfil the needs of being integrated as a library module for superview.library. To be more independent from the pbm.package (great improvements on code size) I also extracted the standard bdf font from the pbm part (also free).

Here are the Copyright notice of these modules as found in the files "picttoppm.c" and "libpbm5.c" (revision headers cut off / left out) :

```

/*
 * picttoppm.c -- convert a MacIntosh PICT file to PPM format.
 *
 * [...]
 *
 * Copyright 1989,1992,1993 George Phillips
 *
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 *
 * George Phillips <phillips@cs.ubc.ca>
 * Department of Computer Science
 * University of British Columbia
 *
 * $Id: picttoppm.c,v 1.7 1993/10/26 22:40:31 phillips Exp phillips $
 */

```

Only the default font definition has been taken from this one:

```

/* libpbm5.c - pbm utility library part 5
**
** Font routines.
**
** Support for BDF fonts Copyright 1993 by George Phillips.
**
** Copyright (C) 1991 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

```

PNG.svobject

-----

Is based on the png reference library (including libpng and zlib), which allows being used e.g. for freely distributable and commercial programs

libpng:

libpng 1.0.1

Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

Copyright (c) 1996, 1997 Andreas Dilger

Copyright (c) 1998 Glenn Randers-Pehrson

zlib:

zlib 1.1.2

(C) 1995-1998 Jean-loup Gailly and Mark Adler

RotateFree.svoperator

-----

The basic algorithm for rotation about any given point with any possible angle had been described in "C/C++ Users Journal", issue August 1995. It was strongly dependend on TIFF input, did only work with 8 Bit input and was not able to adjust the image buffer size to prevent image parts to be cut off. Used only the basic algorithm as a hint how to do hit.

TIFF.svobject

-----

Since V3.7 this module makes use of the freely distributable TIFF Library (libtiff). For this version V3.4 beta 037 has been used.

Please note the following copyrights:

Copyright (c) 1988-1997 Sam Leffler

Copyright (c) 1991-1997 Silicon Graphics, Inc.

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LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

YUVN.svobject and PCD.svobject  
-----

For the 24 bit YUV <-> RGB Conversion Routines I used some code of the NetPBM Package.

The code of the original routines has been strongly modified and enhanced/improved (there are almost no similarities to the original code left now, except the main algorithm).

For PCD also the factors to scale YCbCr to RGB had to be adjusted, since the ones of PCD are slightly different to those of JPEG.

Here are the Copyright notices as found in the specific source files :

```
/* ppmtoyuvsplit.c - convert a portable pixmap into 3 raw files:
** - basename.Y : The Luminance chunk at the size of the Image
** - basename.U : The Chrominance chunk U at 1/4
** - basename.V : The Chrominance chunk V at 1/4
** The subsampled U and V values are made by arithmetic mean.
**
** If CCIR601 is defined, the produced YUV triples are scaled again
** to fit into the smaller range of values for this standard.
**
** by A.Beck
** Internet: Andre_Beck@IRS.Inf.TU-Dresden.de
**
** Based on ppmtoyuv.c
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

/* yuvsplittoppm.c - construct a portable pixmap from 3 raw files:
** - basename.Y : The Luminance chunk at the size of the Image
** - basename.U : The Chrominance chunk U at 1/4
** - basename.V : The Chrominance chunk V at 1/4
** The subsampled U and V values are made by arithmetic mean.
**
** If ccir601 is defined, the produced YUV triples have been scaled again
** to fit into the smaller range of values for this standard.
**
** by Marcel Wijkstra <wijkstra@fwi.uva.nl>
**
** Based on ppmtoyuvsplit.c
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
```

```
** documentation. This software is provided "as is" without express or
** implied warranty.
*/
```

```
MetaView.svobject
```

```
-----
```

This WMF/AMF/IFF-DR2D/DXF/WPG-Vector support module accesses the external program "MetaView", which is (C) Henk Jonas.

```
HilbertDither256.svoperator
```

```
-----
```

The description of the "fractal Hilbert dithering" method has been found in the "mc magazine, issue 6/94, Franzis-Verlag GmbH". The basic techniques (L-System, 16x16 block error approximation) are perhaps the same, but the source code as such has been rewritten completely in almost any of its parts, so that it has not just been "taken out of there" (any limits have been removed; e.g. the original source was a standalone-program, which only worked with TARGA graphics, which had a width and height divideable by 16, but max. 1280x960 or 2560x1920).

## 1.118 ControlPad Fileformat

Many SVOobjects, SVDdrivers and SVOoperators have to handle globally set preferences, which may also have to be handled and/or modified by custom programs or SuperViewPrefs.

To prevent multiple different ways of storing these preferences data, I introduced a common standard fileformat for such configuration files: The ControlPad fileformat (please read the notes under "Style Guide" below).

- To allow easy reading and understanding of these files, these are stored in plain ASCII
- To prevent people from learning just another technique of configuring files, these are constructed just like a kind of "tooltype lists"
- a single ControlPad takes a full line of the file and looks like that : <Name>=<Content> or <keyword>  
Content and Name may contain any ASCII characters except "=", because the first "=", which is found, is used to separate the Name from the Content in the line. A keyword is anything, which does not contain a "=" somewhere, but is not a comment.
- So all other special characters are possible (although you should not make too much use of them for ergonomical reasons).
- it is supported to write as much comments to the files, as wished. A comment line has to begin with "/" or ";" in its first column. A totally blank line fits to the same category as "/" or ";" lines.
- any single line should not exceed 255 characters

Additional Notes

```
~~~~~
```

\* Note, that comments are safely read and written by the current library version.

- \* The SVSUP\_FindControlPad() function is case-sensitive, so if nothing else is specified, the ControlPad entries are always also case-sensitive. Case-insensitive functions already have been added (SVSUP\_FindControlPadNoCase()) but are not used widely yet.

By using GUI-based functions for ControlPad modifications which prevent the user from changing them directly, you may be able to avoid such conflicts.

## Style Guide

~~~~~

Common "style guide" rules (PLEASE NOTE) :

- ControlPads should be located in "ENV:superview-library/" and have the plain name of the SVDriver/SVObject/... plus ".controlpad" as extension.  
For example a ControlPad for JPEG.svobject should be named "ENV:superview-library/JPEG.controlpad".
- for boolean entries use <YES|NO> choices, not <TRUE/FALSE> or just set single keywords like "USE\_..."
- for switches, <ON|OFF> choices are most often preferable against setting single keywords for either "on" or "off"
- use pregnant and verbose names for multiple-choices, like <HUFF|LWZ|ENTROPY>, not <1|2|3>
- use short names and statements, not long and complicated ones :  
"ColorDepth=24" instead of "Number\_of\_Colors=16.7\_million"

## Examples

~~~~~

In "Programmers/C-Language/Example\_Tools/ControlPad" you find some example sources, which deal with ControlPads and should explain anything you need to know about these.

## 1.119 CPInfo Fileformat

Some applications might wish to enable the user to interactively specify controlpad settings just when reading, writing or processing an image and not before or after by setting preferences.

Until this will be managed by superview.library, superview.support.library or the single modules by introducing new functions for handling this, applications may take this information from ".cpinfo" files, where the specific ControlPad entries are dynamically described.

### Content

=====

- Structure in general
- Structure in detail
- Structure Entry Description in detail
- Examples
- Last Words and Exceptions
- Future

- Special configuration Standards

Structure in general

-----  
 Every CPInfo-File is constructed like an usual ControlPad file, but in this case, the `_order_` of the entries becomes meaningful. These files are separated into SECTIONS, where any necessary information about specific ControlPad entries are stored.

To allow easy enhancements and improvements on this format, there's an important note:

- the number of sections is not limited
- each SECTION `_must_` contain at least the entries described below
- each SECTION `_may_` contain more entries, so that it might be necessary to skip all the following entries until another "SECTION" entry will be reached
- the order of the entries is `_fixed_`
- if any of the following `_needed_` entries makes no sense, it will still be present as a "dummy", thus just a keyword is placed there and no value is given via "="
- any single line should not exceed 255 characters
- as with usual ControlPad files, comments and blank lines are allowed

Structure in detail

-----

|                                      |                                 |
|--------------------------------------|---------------------------------|
| CPINFO                               | ; identification                |
| SECTION=<Name of ControlPad entry>   | ; the name of the entry         |
| TYPE=<INTEGER FLOAT ASCII NONE>      | ; type of data                  |
|                                      | ; (signed or unsigned for       |
|                                      | ; INTEGER or FLOAT may          |
|                                      | ; be detected via MIN and MAX). |
|                                      | ; NONE is used for keywords.    |
| MIN=<Value>                          | ; - minimum value for numbers   |
|                                      | ; - minimum length for strings  |
|                                      | ; - or empty ("MIN")            |
|                                      | ; Empty with keywords.          |
| MAX=<Value>                          | ; - maximum value for numbers   |
|                                      | ; - maximum length for strings  |
|                                      | ; - or empty ("MAX")            |
|                                      | ; Empty with keywords.          |
| DEFAULT=<Default value for entry>    | ; what will be used if nothing  |
|                                      | ; is specified ?!               |
|                                      | ; Empty e.g. with keywords.     |
| DESCRIPTION=<descriptive text>       | ; what does it do ?             |
| MASK=<input mask>                    | ; this one allows to separate   |
|                                      | ; choices and "free" enterings  |
|                                      | ; Empty with keywords.          |
| WHEN=<READ WRITE ALWAYS PREFS NEVER> | ; ask for it, when the user     |
|                                      | ; does reading or writing       |
|                                      | ; (SObjects) ? Or always        |
|                                      | ; (SDrivers/SVOperators) ?      |
|                                      | ; Or never ? (Undocumented)     |
|                                      | ; Or Just handle it as a real   |
|                                      | ; preferences thing ?           |

---

## Structure Entry Description in detail

## o A few words to the MASK entry:

Any entries which don't have a specific meaning (just comments) or mutual exclude entries do have to begin with "<" and end with ">". Anything else are control sequences, which either are to be supported or have to be ignored.

a) "<...>" or "<...|...|...>"

Usually you should print out this text as a little help for the user, how to enter the data, e.g. into a string/integer gadget. But if the string included by "<" and ">" does contain one or more "|" these are meant as exclusive choices, which e.g. might be represented as mx-, cycle- or listview-gadgets. So you may a) present this mask to the user while editing a string/integer gadget or b) parse it and just "filter" the input via supplying appropriate input gadgets. Please note, that the "MIN" and "MAX" values (if specified) still have to be valid for this input (if the file definition has been done correctly ;-)

So for a "MASK=<8|24>" these would equal "MIN=8" and "MAX=24". But note, that this "mask" is not really meant to define ranges with gaps, like "anything between 5 and 37, but except the numbers between 33.3 und 36.5" 8-)

b) Control Sequences

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| MASK=_SVOBJECT   | means, that a file from "LIBS:svobjects" has to be requested, which matches "#?.svobject".            |
| MASK=_SVDRIVER   | means, that a file from "LIBS:svdrivers" has to be requested, which matches "#?.svdriver".            |
| MASK=_SVOPERATOR | means, that a file from "LIBS:svoperators" has to be requested, which matches "#?.svoperator".        |
| MASK=_FILE       | a file to be selected e.g. fromout a requester (it is supposed, that the user does the right choice). |

## Examples

Anentry for a keyword might look like this:

```
SECTION=ANYDATATYPES
TYPE=NONE
MIN
MAX
DEFAULT
DESCRIPTION=Switches Datatypes support to ANY
MASK
WHEN=PREFS
```

An entry for a float value:

```
SECTION=SCALE_FACTOR
TYPE=FLOAT
MIN=0.1
MAX=2.0
DEFAULT=1.0
DESCRIPTION=Factor for scaling graphics
MASK=<Value>
WHEN=ALWAYS
```

An entry for an ASCII text:

```
SECTION=PACKMETHOD
TYPE=ASCII
MIN=4
MAX=4
DEFAULT=NUKE
DESCRIPTION=How to pack the written data
MASK=<XPK-Packer>
WHEN=WRITE
```

An example for an ignoreable keyword:

```
SECTION=DEBUGMODE
TYPE=NONE
MIN
MAX
DEFAULT
DESCRIPTION=Enables debugging mode with Confirm-Requesters
MASK
WHEN=NEVER
```

#### Last Words and Exceptions

-----  
So you see, that it's easy to describe any of the existing ControlPad variations this way.

The "WHEN" statement is a help for applications to decide, whether and when to allow changing of specific ControlPad entries.

Applications should either ignore entries of type "WHEN=NEVER" or prepared to handle slightly differing entries, like e.g. TYPE=INTEGER entries with a non-set default value. (An example had been the "AVAILMEM" switch of interim versions of JPEG.svobject - which was both: a keyword and a common setting, but should never be changed during runtime.)

"WHEN=NEVER" is just for options with experimental state or debugging purposes.

Future

-----

---



In the future, there may be a function in `superview.library`, which allows passing a controlpad list to it, which then may be passed to the attached `SVObject/SVDriver/SVOperator` as a "local" setting, which will override the "global" ControlPad files.

So the CPInfo Files will be helpful for applications on how to find out, which ControlPads might be possibly set.

#### Special configuration Standards

---

For special cases it seems to be suitable to define a common behaviour, so that GUI-based and interactive selections for those special cases may become independent from specific modules.

Applying operations to parts of images only (crop standard)

---

Suggested by Steve Quartly in 11/95

Operators and other modules, which allow to apply their specific operations to either the whole given image or only a defined part of it, should use the following controlpads as a standard for allowing the application to better visualize the process of selecting the concerned parts of the graphics.

```
REGION=<ENTIREIMAGE|RECTANGULAR>
; if this one exists, you have the choice.
; Then, if REGION=ENTIREIMAGE, the following are supposed to be
; 0, 0, width, height, otherwise they have to be specified.
LEFTEDGE=<Value smaller or equal width>
TOPEDGE=<Value smaller or equal height>
WIDTH=<width of shape>
HEIGHT=<height of shape>
; just like opening a window
```

## 1.120 ControlPad Overview

---

### MAIN LIBRARIES

---

```
ControlPad-Name : "ENV:SuperView-Library/LIBRARY.controlpad"
ControlPad-Commands : - DEFAULTSVDRIVER=<#?.svdriver>
 ; Which SVDriver should be set, when
 ; SuperView-Library is being initialized ?
 ; For example: "DEFAULTSVDRIVER=AGA.svdriver"
- ANYDATATYPES
; if this keyword is set, ANY DataTypes will
; be loaded and tried to be displayed in some
; way (e.g. not only pictures, but also 8SVX
; sounds or ANIM-Files ...)
; This changes are recognized each time, when
; a new handle for loading a file is being
; initialized - but may be superseded by specific
; program's settings internally.
```

---

```

ControlPad-Name : "ENV:superview-library/superviewsupport.controlpad"
ControlPad-Commands : - C2P=<OS|SV>
 ; determines, whether chunky to planar conversion
 ; is managed via the appropriate OS functions
 ; or via internal ones.
 ; Due to various problems with the OS functions
 ; "SV" is now default.
 ; Be careful when using "OS" with GfxCards,
 ; which carelessly patched graphics.library.
 ;
 ; NOTE: PPC code will automatically be utilited,
 ; when a PPC is available, but only with
 ; C2P=SV
 ;
 ; Default: SV
- MODEGEN=<OS|SV|SVEXT>
 ; determines, whether viewmode generation should
 ; rely on internal/OS functions only, or make
 ; use of P96/CGfx(/PII) functions when available.
 ; Similar to ModeP. "SV" may cause problems on
 ; some systems, may work fine on others.
 ; "SVEXT" is known from the ak-datatypes series.
 ; Note: applicable for OS 3.0 and beyond, only.
 ; Default: OS

```

---

#### SVOBJECTS

---

```

ControlPad-Name : "ENV:SuperView-Library/AmiFIG.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
 ; stacksize to be used for calling GPlot,
 ; increasing may help on crashes
 ; default is: 32768
- AMIFIG_PATH=<fig2dev command path plus name>
 ; how fig2dev is to be called
 ; e.g. AMIFIG_PATH=Work:AmiFIG/fig2dev
 ; default is: fig2dev
- STATUS=<ENABLED|DISABLED>
 ; allows to disable this module - for example
 ; to be able to use an other, program-specific
 ; import-module for the same file format

```

```

ControlPad-Name : "ENV:SuperView-Library/AmiIcon.controlpad"
ControlPad-Commands : - ICON_DEPTH=<colordepth>
 ; Depth of icon to be saved.
 ; Also: WB (depth=2-3, 4-8 colors) or
 ; MagicWB (depth=4, 16 colors) ?
 ; default is: 2
- ICON_TYPE=<DISK|DRAWER|TOOL|PROJECT|GARBAGE>
 ; Type of icon to be saved.
 ; default is: PROJECT
- ICON_TOOL=<program name>
 ; The default tool of the icon to be saved.
 ; default is: "InsertHere" ;)
- WRITE_NEWICON=<ON|OFF>
 ; Write NewIcons, when there is newicon.library
 ; available ?
 ; Default is: ON

```

---

```

- READ_SUPPORT=<ON|OFF>
 ; Allow reading of icons at all ?
 ; Default is: OFF

```

```

ControlPad-Name : "ENV:SuperView-Library/EPS.controlpad"
ControlPad-Commands : - EXTRACTMODE=<HEADER|PS>
 ; Determines, whether the preview image or
 ; the Postscript (TM) part should be extracted,
 ; while parsing the Postscript (TM) part requires
 ; a working Ghostscript installation with
 ; GhostScript.svobject being correctly configured
 ; default is: HEADER
- NO_EPS_HEADER
 ; if this option is set, the EPS file will be
 ; written without EPS header, thus turn into a
 ; plain P*stscript file; useful for sending
 ; it directly to the printer or for use with
 ; FinalWriter, WordWorth, TurboPrint
- SAVE_ROTATE=<ON|OFF>
 ; by default, the picture seems to be rotated
 ; with Postscript (TM) output of this module.
 ; Enabling SAVE_ROTATE will again re-rotate it to
 ; the original position.
 ; default is: OFF
- SAVE_CENTER=<ON|OFF>
 ; centers the images on the page with the
 ; desired size of SAVE_WIDTH x SAVE_HEIGHT (or not)
 ; default is: ON
- SAVE_RLE=<ON|OFF>
 ; allows to apply RLE compression to the
 ; PS output
 ; default is: OFF
- SAVE_DPI=<value>
 ; DPI value to use for the output
 ; default is: 300
- SAVE_WIDTH=<value>
 ; Width of the PS page
 ; default is: 612
- SAVE_HEIGHT=<value>
 ; Width of the PS page
 ; default is: 762

```

```

ControlPad-Name : "ENV:SuperView-Library/FastILBM24.controlpad"
ControlPad-Commands : - BUFFERSIZE=<Size in Bytes>
 ; how many bytes should be buffered
 ; (more = faster)
 ; Default is 8192, minimum is 256
- PASSTHROUGH
 ; do not recognize ANY pictures, so that
 ; they e.g. might be passed through to
 ; ILBM.svobject instead
- DITHERMODE=<HAM6_QUICK|HAM8_QUICK>
 ; Default is HAM6_QUICK

```

```

ControlPad-Name : "ENV:SuperView-Library/GhostScript.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
 ; stacksize to be used for calling GhostScript,

```

```

; increasing may help on crashes
; default is: 32768
- GS_PATH=<gs command path plus name>
; how GhostScript is to be called
; e.g. GS_PATH=Ghostscript:gs000
; default is: gs000
- OUTPUTMODE=<PNG256|PNG24BIT|OTHER>
; Output file format to be used
; (-sDEVICE parameter of Ghostscript's gs).
; Only PNG supported yet.
; default is: PNG256
- OTHER_OUTPUTMODE=<pcxmono|pcxgray|pcx16|pcx256|
pcx24b|tiffcrle|tiff24nc|
pngmono|pnggray|png16|png256|
png16m|bmpmono|bmp16|bmp256|
bmp16m>
; If OUTPUTMODE=OTHER has been set, the string
; specified here will directly be passed as
; Ghostscript's "-sDEVICE" parameter
; default is: png256
- DPI=<value>
; DPI value to use for the converted output
; (-r parameter of GhostScript's gs)
; default is: 72
- STATUS=<ENABLED|DISABLED>
; allows to disable this module - for example
; to be able to use an other, program-specific
; import-module for the same file format

```

---

```

ControlPad-Name : "ENV:SuperView-Library/GPlot.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
; stacksize to be used for calling GPlot,
; increasing may help on crashes
; default is: 32768
- GPLOT_PATH=<gplot command path plus name>
; how gplot is to be called
; e.g. GPLOT_PATH=Work:GPlot/GPlot
; default is: GPlot
- STATUS=<ENABLED|DISABLED>
; allows to disable this module - for example
; to be able to use an other, program-specific
; import-module for the same file format

```

---

```

ControlPad-Name : "ENV:SuperView-Library/ILBM.controlpad"
ControlPad-Commands : - ANIM_BODIES
; if set, ANIM files' ILBM-BODY chunk
; (first frame) will be extracted when
; such a file is encountered. Otherwise
; anim.datatype may do that task later.
; (not actually IFF-ILBM support: it's
; IFF-ANIM support)
- DRACO
; tries to avoid possible problems on
; the Draco computer (modeid generation)

```

---

```

ControlPad-Name : "ENV:SuperView-Library/JPEG.controlpad"
ControlPad-Commands : ;

```

---

```

; STANDARD settings
; *****
- COLORDEPTH=<8|24>
; For READING colored 24 bit images:
; should the output be done as 8 or 24 bit Data ?
; default is 8 Bit data. Grayscaled graphics
; will _always_ be exported as 8 Bit
- QUANTIZATION=<0..100>
; For WRITING 8/24 bit images as 24 bit JPEG:
; 0 - poor quality, big compression
; 100 - best quality, no compression
; never use such extreme values, but try
; something like 20, 50, 75
; default is: 75)
;
; ADVANCED settings
; *****
- FORCE_GRAY_DECODE
; For READING images:
; this switch overrides the selected depth
; for colored images and always exports them
; as 8 Bit grayscaled pictures
; default is: not set
- DECODE_METHOD=<FAST_INTEGER|SLOW_INTEGER|
 FLOATING_POINT>
; For READING images:
; how to DECODE the 24 bit or gray data
; default is: FAST_INTEGER
- DITHERMODE=<DITHER_FLOYD-STEINBERG|
 NO_DITHERING|DITHER_ORDERED>
; For READING and dithering 24 bit images
; to 8 Bit images:
; how and whether to DITHER the 24 bit data
; default is: DITHER_FLOYD-STEINBERG
- COLOR_QUANTIZING=<FAST|SLOW>
; For READING and dithering 24 bit images
; to 8 Bit images:
; whether to QUANTIZE the 24 bit data within
; two passes (not with DITHER_ORDERED)
; default is: SLOW
- UPSAMPLING=<ON|OFF>
; For READING and dithering 24 bit images
; to 8 Bit images:
; whether to do fancy upsampling on the 24 bit
; default is: ON
- FORCE_GRAY_ENCODE
; For WRITING images:
; this switch causes grayscales to be written
; no matter, whether the input was colored
; default is: not set
- ENCODE_METHOD=<FAST_INTEGER|SLOW_INTEGER|
 FLOATING_POINT|FASTEST_INTEGER>
; For WRITING images:
; how to ENCODE the 24 bit or gray data
; default is: FAST_INTEGER
- OPTIMIZE=<ON|OFF>
; For WRITING 24 bit images:

```

---

```

; whether to optimize the generated huffman
; code (good compression, but slow)
; default is: OFF
- PROGRESSIVE=<ON|OFF>
; For WRITING 24 bit images:
; whether to write progressive JPEG files
; default is: OFF

```

```

ControlPad-Name : "ENV:SuperView-Library/Limbo.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
; stacksize to be used for calling GPlot,
; increasing may help on crashes
; default is: 32768
- LIMBO_PATH=<Limbo command path plus name>
; how Limbo is to be called
; e.g. LIMBO_PATH=Work:Limbo/Limbo.68030.881
; default is: Limbo.68000
- STATUS=<ENABLED|DISABLED>
; allows to disable this module - for example
; to be able to use an other, program-specific
; import-module for the same file format

```

```

ControlPad-Name : "ENV:SuperView-Library/MetaView.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
; stacksize to be used for calling MetaView,
; increasing may help on crashes
; default is: 32768
- METAVIEW_PATH=<MetaView command path plus name>
; how MetaView is to be called
; e.g. METAVIEW_PATH=Work:AMF/MetaView
; default is: MetaView
- FIG_SUPPORT
; if this keyword is set, AmiFIG.svobject will
; be overridden and instead MetaView will be
; utilized for import FIG drawings
- CGM_SUPPORT
; if this keyword is set, GPlot.svobject will
; be overridden and instead MetaView will be
; utilized for import CGM graphics
- STATUS=<ENABLED|DISABLED>
; allows to disable this module - for example
; to be able to use an other, program-specific
; import-module for the same file format

```

```

ControlPad-Name : "ENV:SuperView-Library/PCD.controlpad"
ControlPad-Commands : - OUTPUTFORMAT=<BASE/16 | BASE/4 | BASE
; specifies the output resolution to be used
| BASE*4 | BASE*16>
- HPCDTOPPM_PATH=<hpcdtoppm command path plus name>
; how NetPBM's hpcdtoppm is to be called
; e.g. HPCDTOPPM_PATH=Work:NetPBM/ppm/hpcdtoppm
; If this one is not set, "BASE" will be
; used as default resolution, even if OUTPUTFORMAT
; has been set to BASE*4 or BASE*16

```

```

ControlPad-Name : "ENV:SuperView-Library/PNG.controlpad"
ControlPad-Commands : - PNG8_TRANSPARENCY=<ON|OFF>

```

```

; whether 8 Bit PNGs should contain
; transparency information
; Default: OFF
- PNG8_TRANSPARENT_COLOR=<0..255>
; Default color to be enabled and set
; (graphics control extension block)
; Default: 0
- Z_COMPRESSION=<0..9>
; allows changes in compression/speed.
; 0 results in uncompressed data, 9 compresses
; best, but increases decompression time.
; Default: 6
- SAVE_INTERLACED=<ON|OFF>
; Save image as interlaced (progressive) ?
; Default: OFF

```

---

```
ControlPad-Name : "ENV:SuperView-Library/PNM.controlpad"
```

```
ControlPad-Commands : - SUPPRESS_HEADER
; setting this keyword will suppress
; writing the PNM header for P5/P6
; files, which actually will generate
; a RAW data file, which cannot be loaded
; with superview.library again, but may be
; used for different purposes
; Default: (not set)

```

---

```
ControlPad-Name : "ENV:SuperView-Library/Printer.controlpad"
```

```
ControlPad-Commands : - DENSITY=<density value for printing quality>
; Amiga's printer device does allow seven
; modes of printing density (1-7)
; (not with TurboPrint)
; default is: 3

```

---

```
ControlPad-Name : "ENV:SuperView-Library/RGFX.controlpad"
```

```
ControlPad-Commands : - PACKMETHOD=<xxxx>
; XPK packer to be used for writing
; "RGFX xpk-compressed"
; Default: NUKE
- SAVE_CHUNKY
; forces chunky data to be saved,
; even if source graphics was planar
; (e.g. when converting from IFF-ILBM)
; May also result in smaller files.

```

---

```
ControlPad-Name : "ENV:SuperView-Library/Scanner.controlpad"
```

```
ControlPad-Commands : - PUBSCREEN_NAME=<PubScreenName>
; where the scanner drivers should open
; their windows (if not set or not available,
; the default Public Screen will be used).

```

---

```
ControlPad-Name : "ENV:SuperView-Library/SVG.controlpad"
```

```
ControlPad-Commands : - PACKMETHOD=<xxxx>
; if this one is specified, it is tried to
; pack the resulting file with the specified
; XPK-Packer. If this fails, the file keeps
; unpacked.

```

---

```
ControlPad-Name : "ENV:SuperView-Library/TIFF.controlpad"
ControlPad-Commands : - PAGENUMBER=<0..n>
 ; number of image to be displayed
 ; (e.g. for TIFFs with image directories
 ; or multi-page FAX documents)
```

---

SVDRIVERS

---

```
ControlPad-Name : "ENV:SuperView-Library/AGA.controlpad"
ControlPad-Commands : - 24BITOPERATOR=<OperatorName>
 ; (case-sensitive, ".svoperator" may be added)
 ; e.g. "24BITOPERATOR=24BitToHAM.svoperator"
 ; or "24BITOPERATOR=ExtractGrayScales"
 ; specifies, which operation should be performed
 ; on 24 bit graphics before displaying them
 ; (if not specified, "best guess" colors will
 ; be used, which is really slow)
- BITMAPCOPY=<DIRECT|RTG>
 ; "BITMAPCOPY=RTG" prevents AGA.svdriver from
 ; directly copying into Bitmaps, which will
 ; result in a usage of more memory, but keeps it
 ; working.
 ; Default is "BITMAPCOPY=DIRECT".
- SCREENINFRONT
 ; Put Screen to front before the graphics
 ; has been displayed (useful with GfxCards)
```

---

```
ControlPad-Name : "ENV:SuperView-Library/ECS.controlpad"
ControlPad-Commands : - 24BITOPERATOR=<OperatorName>
 ; (case-sensitive, ".svoperator" may be added)
 ; e.g. "24BITOPERATOR=24BitToHAM.svoperator"
 ; or "24BITOPERATOR=ExtractGrayScales"
 ; specifies, which operation should be performed
 ; on 24 bit graphics before displaying them
 ; (if not specified displaying will fail)
- 8BITOPERATOR=<OperatorName>
 ; (case-sensitive, ".svoperator" may be added)
 ; e.g. "8BITOPERATOR=ExtractGrayScales"
 ; specifies, which operation should be performed
 ; on non-ECS graphics (more than 16 Colors in
 ; HighRes, more than 32 Colors in LowRes, HAM8)
 ; (if not specified, will be tried to display)
- BITMAPCOPY=<DIRECT|RTG>
 ; "BITMAPCOPY=RTG" prevents ECS.svdriver from
 ; directly copying into Bitmaps, which will
 ; result in a usage of more memory, but keeps it
 ; working.
 ; Default is "BITMAPCOPY=DIRECT".
- SCREENINFRONT
 ; Put Screen to front before the graphics
 ; has been displayed (useful with GfxCards)
```

---

```
ControlPad-Name : "ENV:SuperView-Library/CgxOverlay.controlpad"
ControlPad-Commands : - PUBSCREEN_NAME=<PubScreenName>
 ; where the window driver should open
 ; its windows (if not set or not available,
 ; the default Public Screen will be used).
```

---



```

ControlPad-Name : "ENV:SuperView-Library/CyberGraphics.controlpad"
ControlPad-Commands : - EMUSCREENDEPTH=<16|24>
 ; beginning depth for opening CyberGraphics Screens
 ; Default is 16 Bit (which will also be tried
 ; when opening of a 24 bit Screen fails)
 ; This does not concern colordepths < 16 Bit,
 ; except HAM6/8.
 - SMALLSCREENS
 ; unless this keyword is specified, it is not
 ; tried to open screens smaller than 320x240

```

```
ControlPad-Name : "ENV:SuperView-Library/Picasso96.controlpad"
ControlPad-Commands : - SMALLSCREENS
 ; unless this keyword is specified, it is not
 ; tried to open screens smaller than 320x240
 - EMUSCREENDEPTH=<16|24>
 ; beginning depth for opening Picasso96 Screens
 ; Default is 24 bit (if opening fails, it is
 ; also tried to open a 16 Bit Screen, then)

```

```
ControlPad-Name : "ENV:SuperView-Library/PicassoII.controlpad"
ControlPad-Commands : - SMALLSCREENS
 ; unless this keyword is specified, it is not
 ; tried to open screens smaller than 320x240
 - BLITTER
 ; uses the Picasso blitter to copy graphics
 ; into screens. Otherwise CPU is used.
 ; On 68000 systems you may wish to use the blitter
 - EMUSCREENDEPTH=<16|24>
 ; beginning depth for opening Picasso Screens
 ; Default is 24 bit (if opening fails, it is
 ; also tried to open a 16 Bit Screen, then)
 - SCREENMODEREQUEST
 ; if this one is specified, the SVDriver ITSELF
 ; will open a ScreenMode-Requester and ask
 ; for an appropriate Screenmode to use
 ; Useful, if you always like to change modes.
 - AUTOSCROLLADJUST
 ; this keyword will force Autoscroll whenever
 ; it would make sense, but the Picasso Software
 ; would not manage it by itself (when either
 ; only width or height need to be autoscrollled)

```

```
ControlPad-Name : "ENV:SuperView-Library/Retina.controlpad"
ControlPad-Commands : - EMUSCREENDEPTH=<16|24>
 ; beginning depth for opening Retina Screens
 ; Default is 24 bit (if opening fails, it is
 ; also tried to open a 16 Bit Screen, then)

```

```
ControlPad-Name : "ENV:SuperView-Library/Window.controlpad"
ControlPad-Commands : - 24BITOPERATOR=<OperatorName>
 ; (case-sensitive, ".svoperator" may be added)
 ; e.g. "24BITOPERATOR=Dither24Bit.svoperator"
 ; or "24BITOPERATOR=ExtractGrayScales"
 ; specifies, which operation should be performed
 ; on 24 bit graphics before displaying them

```

```

; on a screen with a colordepth <= 8
; (if not specified, "best guess" colors will
; be used, which is really slow). Note, that
; HAM is not allowed (thus don't specify the
; 24BitToHAM operator).
- SCROLLSPEED=<Pixels>
; determines, how many pixel should
; be scrolled in any direction when
; being in scroll mode and a cursor key
; is pressed
; Default: 10 (medium slow)
- PUBSCREEN_NAME=<PubScreenName>
; where the window driver should open
; its windows (if not set or not available,
; the default Public Screen will be used).
- SCROLLMODE=<AUTO|NEVER|ALWAYS>
; - 'ALWAYS' activates scroll mode even for
; non-oversized graphics; this will block
; the input of the calling program as
; long as no key or mouse button has been
; pressed inside the display window - but
; will avoid window-refresh problems.
; - 'NEVER' is to avoid the blocking of
; input handling that is caused by the
; scrolling handler (-> PMPro Diashow, ...)
; Default: AUTO
- TRUECOLOR8
; if the Pubscreen is a 24 bit screen but
; the graphics to be displayed is 'only'
; 8 bit or HAM6/8, usually remapping is
; done nevertheless. This option instead
; allows to call "AnyTo24Bit" first,
; thus giving better display quality
; on 24 bit screens. This is memory
; intensive, because for scrolling we
; need another complete 24 bit buffer.
; (requires AnyTo24Bit.svoperator)
- PEN_PRECISION=<IMAGE|EXACT>
; you should not change this
; default: IMAGE

```

---

SVOPERATORS

---

```

ControlPad-Name : "ENV:SuperView-Library/24BitToHAM.controlpad"
ControlPad-Commands : - DITHERMODE=< HAM6_QUICK|HAM6_WELL
 |HAM8_QUICK|HAM8_WELL>
 ; specifies the HAM-Mode to be used and
 ; the resulting speed/quality

```

---

```

ControlPad-Name : "ENV:SuperView-Library/CallPNM.controlpad"
ControlPad-Commands : - STACKSIZE=<value>
 ; stacksize to be used for calling PNM program,
 ; increasing may help on crashes
 ; default is: 32768
- PNMCOMMAND=<PBM command path and name>
; PNM command to be called
; e.g. PNMCOMMAND=Work:NetPBM/pnm/pnmscale

```

---

```

- PNMOPTIONS=<Options>
 ; Options for PNM command to be called
 ; e.g. PNMOPTIONS=-xscale 2.0 -yscale 2.0

```

---

```

ControlPad-Name : "ENV:SuperView-Library/Crop.controlpad"
ControlPad-Commands : - CROP_LEFTEDGE=<Value>
 ; crop from x position
 ; (will be adjusted, if >= source width)
- CROP_TOPEDGE=<Value>
 ; crop from y position
 ; (will be adjusted, if >= source height)
- CROP_WIDTH=<Value>
 ; crop how many x pixels from leftedge
 ; (will be adjusted, if too large)
- CROP_HEIGHT=<Value>
 ; crop how many y pixels from topedge
 ; (will be adjusted, if too large)

```

---

```

ControlPad-Name : "ENV:SuperView-Library/Dither24Bit.controlpad"
ControlPad-Commands : - COLORDEPTH=<1..8>
 ; specifies the colordepth of the dithering
 ; output (1->2 Colors .. 8->256 Colors)
- DITHERMODE=<BESTPEN|DITHER_FLOYD-STEINBERG
 |ORDERED|BURKES>
 ; whether to just select the best pen or
 ; do Floyd-Steinberg pixel error adjustment

```

---

```

ControlPad-Name : "ENV:SuperView-Library/ExtractGrayScales.controlpad"
ControlPad-Commands : - COLORDEPTH=<1..8>
 ; specifies the colordepth of the grayscale
 ; output (1->2 Colors .. 8->256 Colors)
- QUICK
 ; uses >>2, >>1, >>3 (*0.25, *0.5, *0.125)
 ; instead of *0.3, *0.59, *0.11

```

---

```

ControlPad-Name : "ENV:SuperView-Library/HilbertDither256.controlpad"
ControlPad-Commands : - BACKGROUND=<BLACK|WHITE>
 ; defines, which of the two colors will act
 ; as background color. Useful e.g. for printing.

```

---

```

ControlPad-Name : "ENV:SuperView-Library/PaletteDither.controlpad"
ControlPad-Commands : - COLORDEPTH=<1..8>
 ; specifies the colordepth of the final,
 ; dithered graphics (1..8 for 2..256 colors)
- DITHERMODE=<BESTPEN|DITHER_FLOYD-STEINBERG>
 ; whether to just select the best pen or
 ; do Floyd-Steinberg pixel error adjustment
- PALETTEDEPTH=<1..8>
 ; number of colors (depth) to be taken from the
 ; fixed palette - the possible rest will be
 ; generated (if specifying more palette colors
 ; than available, all available will be taken)
- PALETTEFILE=<palette graphics filename>
 ; any 2..256 color graphics file, of which
 ; superview.library is able to extract a
 ; palette from (for example an IFF-ILBM file,
 ; but including a BMHD and - maybe empty - BODY).

```

---

```
 ; Allows to take one graphics as sample for
 ; the others (concerning the palette).
```

```

ControlPad-Name : "ENV:SuperView-Library/Rotate.controlpad"
ControlPad-Commands : - DEGREES=<90|180|270>
 ; rotate by how many degrees (reverse clockwise) ?

```

```
ControlPad-Name : "ENV:SuperView-Library/RotateFree.controlpad"
ControlPad-Commands : - ROTATE_ANGLE=<0..360>
 ; rotate by how many degrees (reverse clockwise) ?
- METHOD=<MIDDLE|GIVENPOINT>
 ; default is rotation about the middle
- X_COORD=<Value>
 ; if METHOD=GIVENPOINT we need (X/Y)
 ; Default is (0/0)
- Y_COORD=<Value>
 ; if METHOD=GIVENPOINT we need (X/Y)
 ; Default is (0/0)
- KEEPSIZE
 ; if this keyword is set, it is NOT tried to
 ; readjust the image size and to center the
 ; image, so that parts, which would be out of
 ; range won't be cut off (which works best
 ; with (X/Y) pairs in the left, upper quarter)
```

```

ControlPad-Name : "ENV:SuperView-Library/Scale50.controlpad"
ControlPad-Commands : - METHOD=<HALF|DOUBLE>
 ; scale to which size ?

```

```
ControlPad-Name : "ENV:SuperView-Library/XOR.controlpad"
ControlPad-Commands : - XORVALUE = <0..255>
 ; 0 and 255 will not be the best decision ;-)
 ; Use 15 or something like this.
 ; Values greater (depth^2)-1 (is: colors-1) won't
 ; be accepted.

```