

**SystemPrefs**

<b>COLLABORATORS</b>
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	<i>TITLE :</i> SystemPrefs		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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# Chapter 1

## SystemPrefs

### 1.1 SystemPrefs: Contents

== TriTech Developments Proudly Presents ==

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- The System Control Preference Editor -

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- © 1995 Richard Körber - FreeWare - All Rights Reserved

## 1.2 SystemPrefs: 1. Short description

Nowadays, there are many tools to switch the caches of the 68030 and 68040 or change the custom chip settings. But somehow, none of these tools satisfied my demands. I wanted a program that allows me to change the settings as comfortably as a preference editor, and after the bootup they should be set correctly.

"SystemPrefs" is such a tool. It fits between the other preferences editors, and a small CLI program - inserted in the startup-sequence - handles the setup.

## 1.3 SystemPrefs: 2.1. Contact address

IMPORTANT: Please read the **copyright** note first!

Write to the following address if you have questions or find a bug:

Richard Körber

Hornstraße 20

51465 Bergisch Gladbach

Deutschland

E-Mail: shred@tfh.dssd.sub.org (Germany) or

shred@eratosth.wwb.sub.de (international)

PLEASE use the e-mail address if possible. If you use standard mail, please send DM 5 (or an equivalent amount of other currency) to cover the costs of my reply.

Support-Mailbox:

The Funhouse

+49-2204-61630 ZyX 19.2

+49-2204-23856 ZyX 16.8

+49-2204-61499 HSTDS

+49-2204-23955 V32.b

24h online, prometheus mailbox system, SysOp: Kiwi

Send me a small e-mail if you want to translate the documentation or the catalog file into your language.

## 1.4 SystemPrefs: 2.2. Copyright

SystemPrefs is © 1995 Richard Körber. All Rights Reserved.

This program is FreeWare.

This version of the program archive may be distributed freely as long as the archive remains complete and unchanged. You are allowed to charge a maximum fee of DM 8 (or equivalent) to cover all costs including media. Otherwise written permission from the author is required.

I permit including this archive in the Fred Fish library and AmiNet and their CDs.

The archive consists of the following files:

- System The program itself
- System.info Program icon
- SystemPrefsE.guide This documentation
- SystemPrefsE.guide.info Documentation icon
- SystemPrefsD.guide German documentation
- SystemPrefsD.guide.info German documentation icon
- Install Commodore Installer script
- Install.info Installer script icon
- c/SysPrefs The CLI setup tool
- libs/provision.library provision library
- libs/reqtools.library reqtools library
- catalogs/deutsch/SystemPrefs.catalog The German catalog file

Usage for fascist or military purposes is FORBIDDEN!

You are using this program "as is" and at your own risk.

The author (Richard Körber) is not responsible for any damages, including (but not limited to) hard- or software damages or data loss.

All rights reserved.

Please delete this program and all related files if you do not agree with these copyright notes.

reqtools.library is © Nico François. (Available on Fish Disks)

provision.library is © Richard Körber.

AmigaGuide is © Commodore-Amiga. (e.g. Fish Disk #920)

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## 1.5 SystemPrefs: 3. Installation and Program Start

AmigaOS 2.04 is required to use this program. locale.library should be installed if you want to take advantages of localization.

SystemPrefs is will run on a 68000, but you should have a 68020 or better to fully utilize the program!

SystemPrefs will be installed by the Commodore installer. First start your Workbench, then the Installer script. You can use a floppy disk or hard drive as the destination.

The prefs editor is copied in the prefs/ drawer and the startup program is copied into C:. You have to change the startup-sequence so that it calls the startup program at bootup. Load the

"S:startup-sequence" using a text editor, then insert the line "SysPrefs >NIL:" right before the "IPrefs" line. After that, you can save the startup-sequence.

The installation now completed.

SystemPrefs can be started from Workbench by double-clicking its icon, or from the shell. The shell will be released immediately after starting SystemPrefs and can execute further commands or even be closed.

## 1.6 SystemPrefs: 4.1. CPU cache control

You can control the processor caches using the "CPU cache control" field.

Instruction Cache Toggles the instruction cache. It should normally be activated. Only self-optimizing code could cause problems. (68020+)

Data Cache Toggles the data cache. This one will normally be activated. (68030+)

Instruction Burst Toggles instruction burst. (68020+)

Data Burst Toggles data burst. This mode should normally be turned off on Amiga 3000. (68030+)

Write Allocate A special bus mode. You can gain a little more speed if you turn it off, but usually your system will crash! Therefore, this gadget is only available in expert mode. (68030 only)

Copyback Only available on 68040. It gains more speed, but some programs do not work correctly.

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VBR to Fast-RAM With this gadget enabled, the processor's vector registers are copied into Fast RAM.

This gains a (very) little more speed, but causes lots of problems with games, demos and some tools. (68010+)

The new settings will take effect after you exit the program with "Save" or "Use".

IMPORTANT!!! If you turn off Write Allocate, you should use the "Use" gadget to check it out before saving settings. Make sure that there is no drive activity when you do this.

IMPORTANT!!! Never change the VBR mode while Enforcer is running. The system will hang for technical reasons!

## 1.7 SystemPrefs: 4.2. RAMSEY control

With this field you control the RAMSEY chip built in Amiga 3000 and Amiga 4000.

There must be RAMSEY version F installed, otherwise this group will not function.

60ns-RAM Puts RAMSEY into 60ns RAM access mode. This mode is quite dangerous and is therefore turned off by default. You can change it only in expert mode.

See the "60ns-RAM" chapter for more details.

WARNING: When changing this mode, your system may crash!

## 1.8 SystemPrefs: 4.3. CIA control

This field controls the CIA modes:

Audio filter Turns the audio filter (and the power LED) on and off. On an Amiga 1000, this only toggles the LED.

## 1.9 SystemPrefs: 4.4. The menus

The editor has the following menu items:

Project

About... Some information about the program

Open... Opens a preference file

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Save as... Saves a preference file

Quit Quits the preference editor

Edit

Reset To Defaults Resets with the default settings

Last Saved Resets with the last saved settings

Restore Resets with the last used settings

Set Current Hardware Sets with the current hardware

status.

Settings

Expert Mode Enables expert mode. Some critical parameters can then be changed.

## 1.10 SystemPrefs: 5. The 60ns RAM mode

The 60ns RAM mode lets RAMSEY make fast RAM accesses with 60ns access time, whereby your system will gain up to 10% more speed! However, your fast RAM must be designed for 60ns RAM accesses for this mode to work.

The tolerances of some 70ns SIMMs are high enough. You have to try it out (your Amiga cannot usually be damaged by this experiment).

Turn the 60ns RAM mode on and press "Use" (you cannot undo a "Save"d configuration easily if this experiment fails!). Make sure that no harddisk and disk accesses occur if you press "Use"!

If your Amiga crashes immediately or does not work reliably, your RAM is too slow for this mode. You should leave it turned off or buy 60ns RAM. If this experiment fails, you should switch off your Amiga for a few seconds, because 60ns RAM mode survives a simple reset.

Otherwise, you seem to be a lucky owner! Anyway, you should test your Amiga for a while before you store this mode using "Save".

## 1.11 SystemPrefs: A.1. FAQ

· The system crashes during bootup and cannot be restarted with a reset after that.

You have activated the 60ns RAM mode and saved this setting, but your RAM is not fast enough. Switch your Amiga off and on. Press both mouse buttons to get to the early

boot menu and start your workbench without executing the startup-sequence. Now, enter the following line into the shell: "delete envarc:sys/system.prefs".

· After I plugged more SIMMs in my Amiga, the 60ns mode does not work any more.

This is normal! You have to turn this mode off!

· Using the 60ns-RAM mode, my system crashes sometimes/permanently.

If you do not use 60ns RAM in the internal RAM banks, the RAM accesses are out of the tolerance time of your SIMMs.

You should buy some 60ns RAM or leave this mode turned off.

· The 60ns-RAM mode has no effect.

This mode only works in conjunction with a RAMSEY chip Version F, used only in some Amiga 3000s and the AGA machines.

· The system crashes if I turn off Write Allocate mode.

This mode very seldom works, and usually gains no speed.

Better leave it turned on.

· The burst modes have no effect.

Because of a construction fault in the Amiga 4000, the burst modes do not gain any speed. :-(

· The Copyback mode has no effect.

The copyback mode only works on a 68040. Use with an Amiga 4000 does not gain much speed.

· Since I set VBR to fast RAM, some players, games and demos crash.

This is the side effect of this function. Some demos, games and music players write directly to the vector registers without checking the VBR. If you have trouble with this mode, then turn it off or use tools like "RunLame".

· How can I get the highest speed out of my Amiga?

· 68020,68030: Turn on all cache and burst modes

· 68040: Turn Copyback on

· Set VBR to fast RAM (68010+)

· Enable 60ns RAM (buy 60ns RAM if necessary)

· Turn off Write-Allocate (if possible)

## 1.12 SystemPrefs: A.2. Improvements

I plan the following improvements for my next release:

- External cache switching (does anybody REALLY need this?)
- ROM -> fast RAM
- ARexx port
- Commodity support

Please do NOT consider this list as obligatory.

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## 1.13 SystemPrefs: A.3. Known bugs

SystemPrefs was tested on the following Amigas:

- A4000/o3o (MMU) , Kick 3.0 , 8 MB RAM (6F/2C), 1GB HD,  
Fastlane, Maestro
- A4000/o3o (MMU,FPU) , Kick 3.0 , 6 MB RAM (4F/2C), 400MB HD,  
Emplant, Maestro
- A4000/o4o (MMU,FPU) , Kick 3.1 ,10 MB RAM (8F/2C), 1GB HD,  
Cyberstorm, Picasso II, VLab-Motion
- A3000/o3o (MMU,FPU) , Kick 3.1 ,10 MB RAM (8F/2C), 1,4GB HD,  
Maestro
- A4000/o3o , Kick 3.0 , 6 MB RAM (4F/2C), 261MB HD
- A500/ooo , Kick 2.04, 3 MB RAM (2F/1C), 42MB HD,  
GVP Series II host adapter

These bugs are currently known:

- An Enforcer hit occurs after startup from Shell. It is harmless, but  
it will be hard work to correct it...

## 1.14 SystemPrefs: A.4. History

V2.11 · Released on 1995-03-23

- English translation of the German docs

V2.10 · Released on 1995-02-09

- VBR -> fast RAM added

V2.00 · Released on 1995-02-06

- Localized (English, German)
- AmigaGuide documentation written

V1.47 · Released on 1994-06-05

- Font-sensitive GUI

V1.21 · Released on 1994-04-21

- Expert Mode included
- Filter can be toggled

V1.00 · Released on 1994-04-11

- Cache and FastMode switchable
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## 1.15 SystemPrefs: A.5. Credits

I wish to thank...

Sven Arke for his support with his mailbox

Rodney Hester for his correction of my English  
translation (a really hard job ;)

Frank Wille for the best Amiga assembler  
(PhxAss!)

Dietmar Eilert for GoldEd

Nico François for reqtools.library

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\X/ -- Amiga -- Motorola Inside... --

## 1.16 SystemPrefs: D. Patches

You can change the following parameters using "PatchEditor"

(available from my support mailbox):

Localization Turns localization on or off. If off, System

Prefs uses the built-in language (English)

only. Default: on

Process name Name of the program (default "SystemPrefs")

Note that you are not allowed to distribute a program that has been  
modified by PatchEditor.