

# **MultiCX**

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**COLLABORATORS**

	<i>TITLE :</i> MultiCX		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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**REVISION HISTORY**

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# Chapter 1

# MultiCX

## 1.1 MultiCX-Guide Main

----- ←  
MultiCX 2.75 (15.8.97)

The ultimate Multi-Function-Commodity  
-----

MultiCX is the smallest Multi-Function-Commodity for the Amiga, thought as a replacement for many larger and sometimes badly programmed programs. It is a 100% pure commodity, which means that it does not use interrupts and no special input handlers. Some Patches (SetFunction) are installed in a very clean way, so that they do not interfere with other programs which use the same vectors.

As a result MultiCX can safely be disabled or removed at any time.

If you need a clean Commodity without bad hacks there's no alternative !

Legal Stuff

Who did it?

Installation

Features

Notes~and~Hints

List of Patches

History

To~do

Credits  
----- ←

!!! MultiCX is SHAREWARE !!!

---

## 1.2 Installation

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### MultiCX Installation

---

Here you can install MultiCX automatically. It will be detected which OS you are using and whether you are installing MultiCX new or whether you are just updating. In the second case you have to add the new tooltypes or these functions will be disabled. For more information about new tooltypes have a look at the history.

[Click here to install.](#)

## 1.3 Features

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### MultiCX Features

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Notification

Localisation

Screen~Blanker

Moire~Screen Blanker

DPMS

Mouse~Accelerator

Mouse~Blanker

Lefty Mouse

Screen~Cycling

Mouse~Shift

Window~Cycling

SUN~alike~Window~Activation

Title Activator

HoldX~and~HoldY

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Enter~ASCII  
Map~Umlauts  
CapShift  
NoCapsLock  
Window~Close & Zoom  
Window Movement  
Window~Remember  
CenterScreen  
HotFlush  
ForceAmiga  
PopCLI  
PrtSc Hotkeys  
FrontPubScreen  
System~Flags  
Trackdisk~Parameters  
Public~Screen~Flags  
Internal~and~External~Preferences  
Advanced~EditHook  
Advanced ResetHandler  
SetFunction~Patches  
AssignWedge  
NewLookMenus  
OS 3.x only!  
NewLookProps  
WBExtender  
TagScreens  
LockPens  
OS 3.x only!  
FixOpenWB  
OS 3.x only!

---

NoCloseWB  
NoDisplayBeep  
Drive Protection  
ToolAlias  
LockPatch  
Opaque Windows  
Alert Timeout  
OS 3.x only!  
WBGauge  
ScreenMenu  
PubScreenAlias  
ShapeShifter Support  
HandleCX

## 1.4 Notification

-----  
Notification  
-----

MultiCX recognizes any changes of the ToolTypes while running, so there's no real need for a GUI.

## 1.5 Locale

-----  
Localisation  
-----

The standard language of MultiCX is english, but if the current locale language is german, then all MultiCX text outputs are in german, too.

-----  
ToolTypes:

FORCE\_GERMAN           force usage of german language, may be helpful  
                          for WB 2.0 users

---



## 1.6 Screen Blanker

-----

Screen Blanker

-----

MultiCX includes a simple but compatible screen blanker. It always uses the display mode which fits best to the actual front screen, while taking the lowest resolution with only one plane.

AVOIDTASK and AVOIDSCREEN fully support AmigaDOS pattern matching and work case insensitive.

If LIKEWB and SCRMODE/SCRMODEID are set, the ScreenMode is only used if the Workbench is not available for some reason. But this should never happen...

See also:

Moire Blanker  
and  
DPMS

-----

ToolTypes:

SCRBLANK=n	sets number of seconds until screen blanks, 0 means OFF
HOTBLANK=Qual&Key	sets hotkey for immediate blanking
CDNOBLANK	do not blank screen if Carrier is detected (currently only supports internal serial port)
CDUNBLANK	unblank screen if Carrier is detected (currently only supports internal serial port)
IGNOREKEY	ignore unblanking keypress
IGNOREMOUSE	do not unblank on mouse movement
IGNOREDISK	do not unblank on disk insertation
AVOIDTASK=Pattern	do not blank screen if OwnerTask of active screen matches pattern
AVOIDSCREEN=Pattern	do not blank screen if title of active screen matches pattern
AVOIDWINDOW=Pattern	do not blank screen if title of active window matches pattern
LIKEWB	forces cloning the WB's display mode
SCRMODE=ModeName	selects a display mode by name
SCRMODEID=ModeID	selects a display ModeID (decimal)

## 1.7 Moire Blanker

-----

Moire Blanker

-----

MultiCX has a really nice Screen Blanker, too! It steals no processor

---

time from other tasks, and if it couldn't draw a line for longer than 10 seconds it falls back to a simple black screen. There are some parameters to play with...

See also:

Screen Blanker  
and  
DPMS

ToolTypes:

```
MOIRE           selects Moire blanker
LINES=n        number of lines, default is 2
TRAIL=n        length of trail, default is 64
XSPEED=n       x offset for next line, default is 4
YSPEED=n       y offset for next line, default is 6
CSPEED=n       color cycling delay, default is 16
COLOR=n        drawing color, range is 1-4095
                0 means Random, -1 means Color Cycling
```

## 1.8 DPMS

DPMS Registered Users only !

DPMS stands for Display Power Management Signaling and needs at least three things to work properly:

1. a DPMS compatible monitor
2. CyberGraphX system v40+
3. a CyberGraphX Workbench screen

WARNING:

Do NOT try to use DPMS if your monitor doesn't support Power Management!

CyberGraphX knows different DPMS levels, but not all graphics cards or monitors support them all, i.e. Picasso-II users may only use level 3. The levels are:

Level 0	DPMS_ON	Full operation
Level 1	DPMS_STANDBY	Optional state of minimal power reduction
Level 2	DPMS_SUSPEND	Significant reduction of power consumption
Level 3	DPMS_OFF	Lowest level of power consumption

In order to prevent other screen blankers from doing unnecessary work while DPMS is active, MultiCX may regularly emulate the pressing of the left shift key, but MultiCX' own blankers do not need this.

See also:

Screen Blanker  
and  
Moire Blanker

---

ToolTypes:

DPMS_TIME=n	sets number of seconds until DPMS blanking, 0 means OFF (no DPMS)
DPMS_LEVEL=n	sets DPMS operation mode (0-3), 0 means OFF
DPMS_SHIFT=n	sets number of seconds for Shift emitting, 0 means OFF
DPMS_KILLKEY	ignore unblanking keypress
DPMS_NOMOUSE	do not unblank on mouse movement
DPMS_NODISK	do not unblank on disk insertation
DPMS_HOTKEY=Qual&Key	sets hotkey for immediate DPMS blanking

## 1.9 Mouse Accelerator

---

Mouse Accelerator

---

MultiCX lets you set Acceleration and Theshold (minimum movement to activate Acceleration) for smooth mouse handling.

SWITCH OFF ALL ALIEN MOUSE ACCELERATORS BEFORE USING THESE OPTIONS!  
(Input Prefs "Acceleration" etc.)

---

ToolTypes:

ACCELERATION=n	sets Acceleration factor, 0 means OFF
THRESHOLD=n	sets Threshold value, 0 means no Threshold

## 1.10 Mouse Blanker

---

Mouse Blanker

---

MultiCX blanks the mouse pointer on keypress and/or after approx. 30 seconds when no mouse movement has occured.

---

ToolTypes:

KEYBLANK	activates MouseBlanking on keypress
----------	-------------------------------------

---

TIMEBLANK                    activates MouseBlanking after timeout

## 1.11 Lefty Mouse

-----  
 Lefty Mouse  
 -----

If activated this feature will swap the left and right mouse button, ie. if you hit the left button it will act like the right and vice versa.

-----  
 ToolTypes:

LEFTYMOUSE                    activates Lefty Mouse

## 1.12 Screen Cycling

-----  
 Screen Cycling  
 -----

MultiCX allows you to cycle screens using either MiddleMouseButton or BothMouseButtons, this is equivalent to LCOMMAND M. Additionally a hotkey for backward cycling may be defined.

If MOUSESHIFT and SCRCYCLE are both set to MMB, then ScreenCycling will occur on a Double-MMB-Click.

-----  
 ToolTypes:

SCRCYCLE=MMB|BMB            sets Screen Cycling to MMB or BMB  
 BACKCYCLE=Qual&Key        sets Qualifier and Key for BackCycle,  
                                  none means OFF

## 1.13 Mouse Shift

-----  
 Mouse Shift  
 -----

MultiCX lets you use the RightMouseButton or MiddleMouseButton as a Shift-Key for extended selection.

And this is how it works with RightMouseButton:

1. Press LeftButton to select first icon and hold it.

-----

2. Press RightButton and hold it.
3. Release LeftButton and keep RightButton pressed.
4. Now select some more icons with LeftButton.
5. To deselect an icon, click on it with LeftButton and keep it pressed, then release RightButton and press it again.

Sounds much more complicated than it is...

-----

ToolTypes:

MOUSESHIFT=RMB|MMB            sets MouseShift to RMB or MMB

## 1.14 Window Cycling

-----

Window Cycling

-----

MultiCX lets you put a window to front/back by a configurable number of LeftButton clicks. Qualifiers can be defined for both functions. Additionally there are two hotkeys available for TopWindowToBack and BottomWindowToTop. But only windows with a Depth Gadget are affected by Window Cycling.

-----

ToolTypes:

WINCYCLE=n                    sets number of mouse clicks for WindowCycle,  
                                  0 means OFF

WINFRONTQUAL=Qual            sets Qualifier for WindowToFront

WINBACKQUAL=Qual            sets Qualifier for WindowToBack

FRONT2BACK=Qual&Key        sets hotkey for TopWindowToBack

BACK2FRONT=Qual&Key        sets hotkey for BottomWindowToTop

SUPERLAYERS                  enables SuperLayers support for CyberGraphX v3

## 1.15 SUN-alike Window Activation

-----

SUN-alike Window Activation

-----

MultiCX has three different options to activate windows automatically. All of them activate the window under the mouse pointer, SunKey does it on every keypress, SunMouse does it after mouse movement, and SunRMB does it after pressing the right mouse button. So SunKey and SunMouse together seem to be rather useless. Windows with active Gadgets (like FileRequesters etc) will never be deactivated by one of these functions. Additionally specific windows may be excluded from deactivation using the AVOIDSUN ToolType. When SUNPOPUP is used windows will be brought to

---

front when being activated.

-----  
 ToolTypes:

SUNKEY	activates SunKey
SUNMOUSE	activates SunMouse
SUNRMB	activates SunRMB
SUNPOPOP	activates SunPopUp
AVOIDSUN=Pattern	do not deactivate active window if title matches this pattern

## 1.16 Title Activator

-----  
 Title Activator  
 -----

This option simply allows activation of a screen by clicking on its title bar, which is quite useful when using dragged screens.

-----  
 ToolTypes:

TITLEACTIVATE	activates Title Activator
---------------	---------------------------

## 1.17 HoldX and HoldY

-----  
 HoldX and HoldY  
 -----

MultiCX allows you to lock a specific mouse dimension while holding a defined Qualifier. If both Qualifiers are set to the same it locks all mouse movements. So you are responsible for useful settings...

-----  
 ToolTypes:

HOLDXQUAL=Qual	sets Qualifier for HoldX, none means OFF
HOLDYQUAL=Qual	sets Qualifier for HoldY, none means OFF

## 1.18 Enter ASCII

-----  
 Enter ASCII  
 -----

---

MultiCX allows you to enter ASCII codes directly by pressing an ALT key and the numbers in the numeric block, for example: <ALT> 65 = A. Maximum 3 digits, value must not be greater than 255.

-----  
ToolTypes:

ENTERASCII=LALT|RALT      activates EnterASCII using LALT or RALT

## 1.19 Map Umlauts

-----  
Map Umlauts

This option might be of use for german users or other people writing german texts. It will convert the german umlauts into the normal character pendants. If the MAPCAPSLOCK switch is set the conversion only takes place while CAPSLOCK is active, which is very useful if you only need this feature with some applications. Please note that this option is not affected by NOCAPSLOCK, so these switches should be used together.

-----  
ToolTypes:

MAPUMLAUTS                  activates MapUmlauts  
MAPCAPSLOCK                 activates MapCapsLock

## 1.20 CapShift

-----  
CapShift

This option changes the way CapsLock works. Just try activating CapsLock, and then press some shifted letters to get an idea of it. Hotkeys etc. are no longer affected by CapsLock. CapShift is ignored if NoCapsLock is active.

-----  
ToolTypes:

CAPSHIFT                     activates CapShift

---







## 1.27 ForceAmiga

---

ForceAmiga

---

This Hotkey lets you force switching to native Amiga modes when using CyberGraphX and is especially useful for some nasty games.

---

ToolTypes:

FORCEAMIGA=Qual&Key      sets Qualifier and Key for ForceAmiga,  
                                 none means OFF

## 1.28 PopCLI

---

PopCLI

---

MultiCX spawns a UserShell using the given command string when pressing the PopCLI key.

---

ToolTypes:

POPCLI=Qual&Key            sets Qualifier & Key for PopCLI, none means OFF  
POPCLICMD=Command        sets command string for PopCLI, none means OFF  
POPCLISTACK=n             sets stacksize for PopCLI (Default: 4096)

## 1.29 PrtSc Hotkeys

---

PrtSc Hotkeys

---

MultiCX executes the given command strings when pressing the left or right ALT key and PrtSc (NUMERICPAD \*), which might be useful to print or snapshot a screen.

---

ToolTypes:

PRTSC\_LEFT=Command        sets command string for LALT NUMPAD \*  
PRTSC\_RIGHT=Command      sets command string for RALT NUMPAD \*

---

### 1.30 FrontPubScreen

-----  
 FrontPubScreen  
 -----

If this option is activated the FrontScreen automatically will become the actual DefaultPubScreen, as long as it is public and not private.

-----

ToolTypes:

FRONTPUBSCR                      activates FrontPubScreen

### 1.31 System Flags

-----  
 System Flags  
 -----

MultiCX lets you set/change some of the internal AmigaOS flags. These may be set, unset or left unchanged, where a parameter of 0 means deactivate, 1 or any value >0 means activate, and putting the ToolType in brackets (the same as removing it) means no change. Old values are NOT restored when quitting/disabling MultiCX, but Notification may be used at any time.

-----

ToolTypes:

BLACKBORDER=n                    changes BlackBorder flag, ECS Denise needed  
 NOCLICK=n                        changes NoClick flag for all drives,  
                                   may not work with very old drives  
 WILDSTAR=n                        changes flag for extended WildCarding,  
                                   if ON "\*" may be used instead of "#?"  
 SNDFILTER=n                        switch Sound filter ON/OFF

### 1.32 Trackdisk Parameters

-----  
 Trackdisk Parameters  
 -----

This option is used to set some parameters of trackdisk.device. If used with care these settings could make your drives faster and less noisy. Old values are NOT restored when quitting/disabling MultiCX, but default values are set when disabling these Tooltypes.

-----

ONLY USE THEM IF YOU KNOW EXACTLY WHAT YOU ARE DOING!

-----

ToolTypes:

TDRETRY=n	change TDU_RETRYCNT (Default is 10)
TDSTEP=n	change TDU_STEPDELAY (Default is 3000)
TDSETTLE=n	change TDU_SETTLEDELAY (Default is 15000)
TDCALIBRATE=n	change TDU_CALIBRATEDELAY (Default is 4000)

### 1.33 Public Screen Flags

-----

Public Screen Flags

-----

MultiCX also lets you set/change the global Public Screen flags. These may be locked, so that other tasks cannot change them. The values are the same as for the

System Flags

.

-----

ToolTypes:

POPPUBSCR=n	changes PopPubScreen flag
SHANGHAI=n	changes Shanghai flag
LOCKPUBFLAGS	locks Public Screen flags set by MultiCX

### 1.34 Internal and External Preferences

-----

Internal and External Preferences

-----

Normally MultiCX opens a WBInfo Requester on CX\_POPUP (OS 3.x only!), but this may be replaced by an external program like MUI-MCXPrefs by Jürgen Kempkes.

Thanks for the great work, Jürgen!

-----

ToolTypes:

CX_POPUP=Qual&Key	sets Qualifier and Key for WBInfo or ext. Prefs
IGNORE_CLASS	lets all other Qual&Key definitions ignore their ix_Class, normally only RAWKEY is accepted

-----

EXTPREFS=Command            sets Command to execute for external Preferences

## 1.35 Advanced EditHook

-----  
Advanced EditHook  
-----

MultiCX contains a comfortable extension for all system StringGadgets. It is completely inactive as long as the CONTROL qualifier is pressed.

The following keys can be used:

RCOMMAND Q	undo	(*)
RCOMMAND X	clear	(*)
RCOMMAND C	copy to Clipboard	
RCOMMAND V	paste from Clipboard (Insert)	
RCOMMAND SHIFT V	paste from Clipboard (Clear)	
RCOMMAND G	convert contents to upper case	
RCOMMAND H	convert contents to lower case	
RCOMMAND key	leave Gadget and execute Menu option	(\$^1\$)
LCOMMAND (SHIFT) key	execute original RCommand shortcut	
SHIFT CURSOR LEFT	jump to start of line	(*)
SHIFT CURSOR RIGHT	jump to end of line	(*)
SHIFT BACKSPACE	delete to start of line	(*)
SHIFT DEL	delete to end of line	(*)
ALT CURSOR UP	previous Gadget (SHIFT TAB)	
ALT CURSOR DOWN	next Gadget (TAB)	
ALT CURSOR LEFT	jump word left	
ALT CURSOR RIGHT	jump word right	
ALT BACKSPACE	delete word left	
ALT DEL	delete word right	
ESC	leave Gadget	(\$^2\$)

(\*) function provided by OS

-----  
ToolTypes:

EDITHOOK	activates advanced EditHook
CLIPUNIT=Unit	select Clipboard unit for Copy/Paste (0-255), Default: 0
NOCMDKEY	switch off "execute Menu" option (\$^1\$)
NOESCKEY	switch off "leave Gadget" option (\$^2\$)

## 1.36 Advanced ResetHandler

-----  
Advanced ResetHandler  
-----

If this option is enabled NOTHING will survive a Reset (Software Reset or Keyboard Reset via LCOMMAND-RCOMMAND-CONTROL) in your computer's memory. This will kill all kinds of virusses and things like the RAD: device, which can be very useful if you just use it to decrunch disks.

Please note that the Keyboard Reset is not affected by PATCH\_DISABLE and that KBD\_RESETHANDLERS will not work on very old machines (A1000 and early A500).

-----  
ToolTypes:

RESETHANDLER                      activates advanced ResetHandler

### 1.37 SetFunction Patches

-----  
SetFunction Patches  
-----

Using this ToolType it is possible to select whether all patches are disabled when disabling the Commodity. Patches are always disabled when MultiCX is removed.

The following MultiCX functions are affected by this ToolType:

LOCKPUBFLAGS	ASSIGNWEDGE	NEWLOOKMENUS
NEWLOOKPROPS	WBABOUT	WBTITLE
SA_PENS	SA_AUTOSCROLL	SA_FONT
LOCKPENS	FIXOPENWB	NOCLOSEWB
NODISPLAYBEEP	NOFORMAT	NOBOOTWRITE
LOCKPATCH	SHAPEFREEZER	ALERTTIME
WBGUAGE	OLDTOOL	NEWTOL
EDITHOOK	PUBSCREENALIAS	

BLACKBORDER (OS 2.x only)  
RESETHANDLER (SoftReset only)

-----  
ToolTypes:

PATCH\_DISABLE                    if set, all Patches will be disabled together  
                                  with MultiCX

### 1.38 AssignWedge

-----  
AssignWedge  
-----

This ToolType helps you handling "Please insert volume <xyz> in any drive" requesters. If the system tries to open such a requester, it will be replaced by a new one with three more gadgets:

Assign...	opens a DirectoryRequester asking for a path to assign the requested volume to
Mount	tries to mount the volume
Deny	denies the request and remembers the Process which tried to access that volume, so that it will not ask you again as long as AssignWedge is active

-----

ToolTypes:

ASSIGNWEDGE	activates AssignWedge
AUTOMOUNT=Pattern	defines a pattern for volumes which will be mounted automatically when accessed for the first time

## 1.39 NewLookMenus

-----

NewLookMenus	OS 3.x only!
--------------	--------------

-----

This patch forces NewLook Menu on all PublicScreens.

-----

ToolTypes:

NEWLOOKMENUS	activates NewLookMenus
--------------	------------------------

## 1.40 NewLookProps

-----

NewLookProps	
--------------	--

-----

This patch gives all PropGadgets (Sliders etc.) the OS 2.0+ look, if they are at least 4x4 pixels wide.

(This will work with GadTools Gadgets only!)

-----

ToolTypes:

-----





More...: some additional information (OS 3.x only!)

```

+-----+
|~System~Reboot~-----|
|~Wait~for~disk~activity~to~finish.~|
+-----+
|~~~OK~                               Cancel~|
+-----+

```

When WBMENU is activated some options will be added to WB's Tools menu:

MCX About	some information about MultiCX	
MCX Config	calls MCX	
Preferences		
	MCX Flush	flushes memory (like above)
MCX Reboot	reboots system (like above)	
MCX Shell	calls MCX	
PopCLI		
function		

Please read more about Patches under "  
Notes and Hints  
"!

-----  
ToolTypes:

```

WBABOUT~~~~~ enables new WB About
WBTITLE~~~~~ enables new WB Titlebar
WBMENU          enables new WB AppMenu options
CLOCK           adds a digital clock to the TitleBar, which will
                be updated regularly
12HRS           12hrs clock display (AM/PM)
DATE            adds a date display to the TitleBar
COMPACT         enables a more compact TitleBar (for people with
                very big fonts or a very narrow WB screen)
WIDE            enables XXL TitleBar for very wide WB screens

```

## 1.42 TagScreens

-----  
TagScreens  
-----

Do you remember this old goodie? ;-)

These functions only affect screens which do not set these parameters themselves, so this should work perfectly together with other TagItem promoters like MagicCX's TagScreens. Additionally all screens with supplied TagLists are not changed unless HARDPATCH is set.

-----

ToolTypes:

```
HARDPATCH          if set, NewScreens with TagLists are also
                   affected by the patch
SA_PENS            set DRIPens for ugly looking old programs
SA_AUTOSCROLL      enable AutoScrolling
SA_FONT            use Topaz-8 as default font for old programs
```

## 1.43 LockPens

-----  
LockPens OS 3.x only!  
-----

This option is very useful if you use Workbench with many colors. It locks pens 4-7 and sets the colors according to the actual Palette Preferences.

-----  
ToolTypes:

```
LOCKPENS           enable LockPens
```

## 1.44 FixOpenWB

-----  
FixOpenWB OS 3.x only!  
-----

AmigaOS 3.x has a severe bug when re-opening the Workbench screen, depending on the task priority of the current task the system will hang forever. This option is a workaround for the bug.

-----  
ToolTypes:

```
FIXOPENWB         enable FixOpenWB
```

## 1.45 NoCloseWB

-----  
NoCloseWB  
-----

If this option is set, only the IPrefs task is allowed to close your Workbench screen. The tasks name MUST be "« IPrefs »", which should be the case since Workbench 2.1. Otherwise the Workbench could not be closed by any task.

---

---

ToolTypes:

NOCLOSEWB                    enable NoCloseWB

## 1.46 NoDisplayBeep

---

NoDisplayBeep

---

This option simply disables Intuition's DisplayBeep() function, thus no application will flash the display anymore.

---

ToolTypes:

NODISPLAYBEEP                enable NoDisplayBeep

## 1.47 Drive Protection

---

Drive Protection

---

Using the NOFORMAT option you may Format-protect a specific device, but remember that writing of tracks is still possible (Format ... QUICK).

NOBOOTWRITE inhibits writing the first 2 blocks of a specific device, so viruses or any other programs cannot write a BootBlock any longer, which would otherwise destroy the RDB (Rigid Disk Block) of a harddisk.

If IOALERT is enabled any violation of the above options will cause an Alert giving you the chance to ignore (LBUTTON) or cancel (RBUTTON) the operation. If this option is disabled all offending operations are cancelled.

DeviceName is CASE-DEPENDENT and the driver must already be loaded  
when starting MultiCX!

---

ToolTypes:

NOFORMAT=DeviceName        enable NoFormat for DeviceName  
NOBOOTWRITE=DeviceName    enable NoBootWrite for DeviceName  
IOALERT                      enable IOAlert

---

## 1.48 ToolAlias

-----  
 ToolAlias  
 -----

This very simple ToolAlias option allows you to intercept and replace one or more programs specified by a wildcard pattern by another one, ie. setting "OLDTOOL=#?more" and "NEWTOL=SYS:Utilities/MultiView" means that MultiView will be used instead of all programs which names end with "more".

-----

ToolTypes:

OLDTOOL=Pattern	sets pattern for tools to be replaced
NEWTOL=Command	sets replacement command

## 1.49 LockPatch

-----  
 LockPatch  
 -----

This fixes a small OS-bug in dos.library's Lock function. Without this patch some programs will not work properly with muFS etc.

-----

ToolTypes:

LOCKPATCH	enable LockPatch
-----------	------------------

## 1.50 ShapeShifter Support

-----  
 ShapeShifter Support Registered Users only !  
 -----

If SHAPEFREEZER is enabled, MultiCX will freeze ShapeShifter when it's screen is not in front. This will prevent GfxBoard displays from being trashed by the Mac display.

SHAPECLICKER allows you to use RMB to create a DoubleClick on the Mac.

SHAPESTICK will emulate a Joystick on the Mac side by translating your Joystick movements to keypresses. Default is SPACE for Fire and CURSOR keys for the four directions. Diagonal movements are represented by the corresponding two keypresses. As an example RETURN for Fire and NUMPAD 4,5,6,8 would be correct for F/A-18 and A10-Attack. All Qualifiers except NUMPAD are ignored. Please note that this option will only

-----

affect ShapeShifter, so it is compatible to all other programs running on the Amiga side.

Just in case you don't know what the hell I'm talking about...  
ShapeShifter is the incredible Macintosh emulator by Christian Bauer.

#### IMPORTANT NOTES:

- The name of ShapeShifter's main task must be "ShapeShifter", so do not rename the program! Newer versions of ShapeShifter (since 3.2) take care of this automatically.
- Do NOT use SHAPESTICK if you have anything other connected to your Joystick port (Gameport 1) than a digital Joystick!
- SHAPESTICK currently only supports ShapeShifter running on it's own screen, it is simply ignored if you run ShapeShifter in a window.

---

#### ToolTypes:

```
SHAPEFREEZER          enable ShapeFreezer
SHAPECLICKER         enable ShapeClicker
SHAPESTICK           enable ShapeStick
S_FIRE=Key           set Key representing the Joystick's fire button
S_RIGHT=Key          set Keys representing Joystick directions
S_LEFT=Key
S_UP=Key
S_DOWN=Key
```

## 1.51 Opaque Windows

---

### Opaque Window Movement and Sizing

---

These options enable you to move/size windows in full, and not only an ugly frame. But this should not be used on slow machines! If OPAQQUAL is not set and any Qualifier is pressed while moving/sizing a window MultiCX will use the old OS routines.

---

#### ToolTypes:

```
OPAQMOVE             enables Opaque Movement
OPAQSIZE            enables Opaque Sizing
NOSMART             use OS routines for SmartRefresh windows
NOSIMPLE           use OS routines for SimpleRefresh windows
WBONLY             use Opaque functions on WB screen only
OPAQLIMIT=Pixels   limits WindowSize for Opaque functions
                   0 means "No Limit"
OPAQQUAL=Qual      set Qualifier for Opaque functions
```

---



If you click it with the right mouse button MultiCX presents a menu from which you may select a screen, which will be brought to front when the mouse button is released. Public screens are marked by "<PUB>" in front of their public name, all others by "<SCR>" followed by the screen's title (if present).

Please note that this function is limited to public screens because a visitor window on a custom screen would never be safe enough.

-----

ToolTypes:

SCREENMENU                    enables ScreenMenu

## 1.55 PubScreenAlias

-----

PubScreenAlias

-----

Many programs can only access a PubScreen using its name but not the frontmost or default PubScreen. MultiCX offers two alias names to access these screens: `_FRONT_` for the frontmost and `_DEFAULT_` for the default PubScreen.

Example: `MultiView MyPicture pubscreen _FRONT_`

Sometimes you may have to edit a programs prefs file using a Hex-Editor.

-----

ToolTypes:

PUBSCREENALIAS                enables PubScreenAlias

## 1.56 Notes and Hints

-----

### Notes and Hints

-----

- MultiCX must be started from WB, CLI/Shell is not supported.
  - MultiCX is 100% compatible to Commodore's specifications, so don't complain if some bad-behaving software does not work with it.  
For example: Some bad filesystems do not support Notification, some bad gfx-board drivers do not support MouseBlanking etc...
  - Not all patch programs are as clean as MultiCX (in reality most are really bad hacks!), so you should pay attention to the following
-

simple rules:

1. All lowlevel patches (like CopyMemQuicker, RTPatch etc.) should be started between SetPatch and LoadWB! Do not use the User-Startup for such programs. This method is preferable for most patches.
  2. Application patches (like ARQ) should have a high start priority if started in WBStartup. Simply set a ToolType "STARTPRI=nnn" and use a relative high value like 100 to make sure that these tools are started before MultiCX. Valid values range is -127 to 127.
  3. Do not try to remove bad patches, not even if they have a option to do that! It's simply not possible to do that in a clean way without MultiCX's advanced interfacing routines. You have been warned...
- Some bad programs pass invalid parameters to OS functions, for example some set WFLG\_NW\_EXTENDED in the NewWindow structure and do not supply a valid TagList in enw\_Extension. MultiCX tries to check parameters in order to avoid problems when possible, but this will not always work. Remember: Things like this are not MultiCX's fault!
  - MultiCX's Screen Blanker uses BestModeID to find the best display mode. Because this is impossible under AmigaOS 2.x, MultiCX uses a special masking algorithm to find the display mode. But this relies on the fact, that a DisplayID with all ModeKeys set to 0 exists. Anyway you should use AmigaOS 3.x for best results.
  - BlackBorder is not fully supported by AmigaOS 2.x, but should work.
  - Some very old drives do not like NoClick, so switch it off at once if your drive makes funny noises...
  - If you like to toggle some of MultiCX's features using hotkeys, you should try ToolManager 3.0 (by Stefan Becker) together with DoIcon (by Lars Eilebrecht).
  - MultiCX may be enabled, disabled or removed from within scripts by using
 

```
HandleCX
```

 (included in this archive). Should always be done when starting nasty games...
  - External Preferences programs must not use more than 4096 byte stack, and should use ReadArgs to get needed arguments. The program is responsible for things like protecting itself against being started twice, popping it's screen to front etc.

In order to get the path and name of MultiCX's active icon file a Public Semaphore has been implemented. Programs can use FindSemaphore to get the base of the following structure:

```
struct MCXSemaphore
{
    struct SignalSemaphore mcx_Sem;
    BPTR    mcx_Lock;                /* Copy of my wa_Lock */
    CHAR    *mcx_Name;              /* Ptr to Icon Filename */
    WORD    mcx_Version;           /* MultiCX Version */
}
```



```
        WORD    mcx_Revision;                /* MultiCX Revision */
    }
```

The name of the Semaphore is "MultiCX Path".  
Don't forget to protect all accesses by a Forbid/Permit pair, because the Semaphore will be removed if MultiCX ends.

- NEVER try to remove/disable ARQ or other programs that patch the EasyRequestArgs function. Most often these bad programs will trash the vector, resulting in "Please insert volume NIL: in any drive" requesters.
- Do NOT use bad hacks like SysIHack, ToolsDaemon, ExecPatch etc.
- Some programs (Dopus5 etc.) call Intuition functions while having the IntuiBase locked. So if you encounter any deadlock problems it's definitely not MultiCX's fault!
- Some bad KBD\_RESETHANDLERS do not preserve registers and do not return NULL when finished. This is the case with RebootOff from the Enforcer package, so do not complain if it doesn't work correctly!
- Things like Enforcer are only thought for debugging purposes and should not be used on every startup!
- Some bad so-called viruskillers do not know the difference between a virus and an application, and so report that the DoIO vector has been corrupted and must be fixed. If possible you should CANCEL this operation!
- Everybody should use SwazInfo by David Swazbrook... ;-)

## 1.57 Author

-----  
Author  
-----

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Support BBS: WANDERER +49-211-226223

Login: MBS

Use 'download <number>' to get the archive you want

---

MultiCX was developed using DevPac v3.14 ©1994 by HiSoft

-----  
 Have you tried AmicDFS already ?  
 -----

## 1.58 History

-----  
 History  
 -----

1.00 - 1.76 Ancient History

2.0 (9.9.95) FIRST RELEASE VERSION

2.01 (10.9.95) PUBLIC RELEASE

- fixed serious bugs in  
 Moire Blanker  
 and  
 Mouse Blanker

AVOIDWINDOW - implemented

2.02 (12.9.95) PUBLIC RELEASE

- improved  
 Screen Blanker

OPAQMOVE - improved  
 and  
 OPAQSIZE

SHAPEFREEZER - fixed serious bugs in  
 and  
 FIXOPENWB

EDITHOOK - enhanced and improved

2.03 (14.9.95) PUBLIC RELEASE

- fixed documentation bug (  
 NEWLOOKMENUS  
 )  
 - enhanced  
 EDITHOOK

-

OPAQMOVE  
 and  
 OPAQSIZE  
 completely rewritten,  
 works with OS 2.x and OS 3.x now!

-----

- 
- 2.04 (15.9.95) PUBLIC RELEASE
- - OPAQMOVE
    - no longer ignores alien BorderGadgets (MUI's Iconify Gadget etc.)
- 2.05 (15.9.95) PUBLIC RELEASE
- improved DragBar recognition in OPAQMOVE
    - fixed small bug in OPAQSIZE
- 2.06 (16.9.95) PUBLIC RELEASE
- improved LOCKPATCH
- 2.07 (18.9.95) PUBLIC RELEASE
- improved LOCKPENS
    - added List of Patches to documentation
- 2.08 (19.9.95) PUBLIC RELEASE
- fixed serious bug in error cleanup code
- 2.09 (24.9.95) PUBLIC RELEASE
- - POPCLI and External Preferences should work with faked WBStartupMsgs (with empty MP\_SIGTASK field) now, but the Path will not be cloned then!
- 2.10 (25.9.95) PUBLIC RELEASE
- implemented Deadlock Protection System for some very nasty programs
- 2.11 (26.9.95) PUBLIC RELEASE
- implemented NOBOOTWRITE and IOALERT
    - implemented NODISPLAYBEEP
- 2.12 (28.9.95) PUBLIC RELEASE
- implemented ALERTTIME
-

- modified behaviour of IOALERT
  - 2.13 (29.9.95) PUBLIC RELEASE
    - enhanced and optimised NOFORMAT and NOBOOTWRITE
    - '
    - now ETD commands are detected as well
  - 2.14 (2.10.95) PUBLIC RELEASE
    - hopefully solved deadlock problems with some very nasty programs (DOpus5 etc.)
  - 2.15 (4.10.95) PUBLIC RELEASE
    - made NEWLOOKMENUS more waterproof, some bad programs tried to define NULL-MenuStrips
  - 2.16 (8.10.95) PUBLIC RELEASE
    - fixed bug in ASSIGNWEDGE, so IDCMP\_DISKINSERTED will be handled correctly now
    - added some Notes and Hints
  - 2.17 (9.10.95) PUBLIC RELEASE
    - improved StringGadget recognition routine
  - 2.18 (10.10.95) PUBLIC RELEASE
    - fixed bug in SHAPEFREEZER
  - 2.19 (24.10.95) PUBLIC RELEASE
    - added some sanity checks for ASSIGNWEDGE
  - 2.20 (25.10.95) PUBLIC RELEASE
    - improved LOCKPENS
  - 2.21 (27.10.95) PUBLIC RELEASE
    - implemented Joystick emulation for ShapeShifter
    - improved some routines
  - 2.22 (7.11.95) PUBLIC RELEASE
    - fixed small bug in SHAPEFREEZER
-

- some internal improvements

2.23 (10.11.95) PUBLIC RELEASE

- implemented  
OPAQQUAL  
- included fixed version of  
RebootOff  
(Enforcer)

2.24 (11.11.95) PUBLIC RELEASE

- improved  
ASSIGNWEDGE  
and implemented workaround  
for some nasty programs like TheAnswer3

2.25 (17.11.95) PUBLIC RELEASE

- implemented  
WBONLY  
- implemented SMARTWB  
- updated Support BBS number

2.26 (1.12.95) PUBLIC RELEASE

- implemented  
WBGauge  
2.27 (3.12.95) PUBLIC RELEASE

- fixed stupid bug in  
WBGauge  
2.28 (4.12.95) PUBLIC RELEASE

- fixed and improved  
FRONTPUBSCR  
2.29 (4.12.95) INTERNAL TEST VERSION

2.30 (5.12.95) PUBLIC RELEASE

- improved and enhanced  
EDITHOOK  
:  
- is now controlled by  
PATCH\_DISABLE  
- implemented  
CLIPUNIT  
ToolType  
- RCOMMAND SHIFT V clears gadget before inserting string  
- works with applications that do their own Copy/Paste now  
- is 100% compatible to MUI now  
- overall code cleanup

2.31 (11.12.95) PUBLIC RELEASE

- improved  
OPAQMOVE

---

and  
OPAQSIZE - fixed (harmless) Enforcer hit in  
NEWLOOKMENUS  
2.32 (15.12.95) PUBLIC RELEASE

- hopefully fixed some problems with v39 Workbench  
- minimised stack usage of some routines

2.33 (16.12.95) PUBLIC RELEASE

- improved and extended  
WBABOUT  
and  
WBTITLE - fixed nasty bug in  
SHAPEFREEZER  
2.34 (16.12.95) PUBLIC RELEASE

- Arrggghhhh! v2.33 introduced a MEGA-BUG!

2.35 (19.12.95) PUBLIC RELEASE

-  
WBGUAGE  
should work with all languages now

2.36 (20.12.95) PUBLIC RELEASE

- optimised some routines  
-  
WBGUAGE  
really works with all languages now,  
including German... ;-)

2.37 (26.12.95) PUBLIC RELEASE

- implemented  
CLOCK - added  
12HRS  
and  
COMPACT  
ToolTypes

2.38 (31.12.95) PUBLIC RELEASE

- implemented  
IGNORE\_CLASS - implemented  
NOCMDKEY  
and  
NOESCKEY

2.39 (1.1.96) PUBLIC RELEASE

- implemented  
GURUTIME

---

- implemented some more Magic in  
WBABOUT  
A Happy New Year to all of you!
  - 2.40 (7.1.96) PUBLIC RELEASE
    - fixed a global WB deadlock problem
  - 2.41 (8.1.96) PUBLIC RELEASE
    - fixed small bug in  
WBTITLE
    - ENTERASCII  
now works with LALT or RALT
  - 2.42 (23.1.96) PUBLIC RELEASE
    - implemented  
AUTOMOUNT
    - improved  
EDITHOOK
  - 2.43 (23.1.96) PUBLIC RELEASE
    - improved  
ASSIGNWEDGE
  - 2.44 (26.1.96) PUBLIC RELEASE
    - improved  
ASSIGNWEDGE (AUTOMOUNT)  
behaviour
  - 2.45 (12.2.96) PUBLIC RELEASE
    - removed SMARTWB, because it would never work properly
    - removed a sanity check from  
ASSIGNWEDGE
  - 2.46 (18.3.96) PUBLIC RELEASE
    - implemented  
NOCLOSEWB
    - implemented  
IGNOREKEY
    - improved  
IOALERT
    - '  
Multitasking is inhibited now while displaying the  
alert to give the chance for a emergency reset
    - WBTITLE  
now detects CyberGraphX
    - easier access to  
Support BBS
  - 2.47 (24.3.96) PUBLIC RELEASE
    - fixed  
ASSIGNWEDGE
-

's Mount to work properly with  
some 3rd party command shells (WShell etc.)

- 2.48 (11.4.96) PUBLIC RELEASE
- implemented  
ASSIGNWEDGE  
workaround for WBStartup+  
(bug in launcher.library)
  - fixed small bug in  
NOCAPSLOCK
    - improved SetFunction interfacing code
  - optimised some routines
  - included german documentation
- 2.49 (13.4.96) PUBLIC RELEASE
- fixed a nasty bug in new SetFunction interfacing code
- 2.50 (29.4.96) PUBLIC RELEASE
- fixed bug in  
SCRMODE  
, ToolType was simply ignored
- 2.51 (8.6.96) INTERNAL TEST VERSION
- 2.52 (10.6.96) PUBLIC RELEASE
- improved  
Drive Protection  
routines
  - implemented  
IGNOREMOUSE  
and  
IGNOREDISK
    - implemented
  - AVOIDSUN
    - implemented
  - DATE  
display for extended TitleBar
- 2.53 (11.6.96) PUBLIC RELEASE
- fixed small bug in  
DATE  
routine
- 2.54 (18.6.96) PUBLIC RELEASE
- fixed bug in  
AVOIDSUN
    - improved InputEvent killing routine
- 2.55 (24.6.96) PUBLIC RELEASE
- implemented
-



German Localisation  
- improved some routines

2.56 (24.7.96) PUBLIC RELEASE  
  
- improved  
NEWLOOKPROPS  
- fixed bug in  
WBGUAGE  
(Type 1)  
- fixed bug in  
AVOIDSUN  
which affected  
Window Cycling  
- implemented  
FORCEAMIGA  
2.57 (10.9.96) PUBLIC RELEASE

- improved and extended  
WBABOUT  
and  
WBTITLE  
- improved German documentation

2.58 - 2.59 INTERNAL TEST VERSIONS

2.60 (10.1.97) PUBLIC RELEASE  
  
- implemented  
SCREENMENU  
-  
SUNxxx  
functions no longer disable MUI Stringgadgets  
- fixed some small bugs  
- changed  
account number  
for money transfer

2.61 (15.1.97) PUBLIC RELEASE  
  
- fixed stupid bug in  
SCREENMENU  
2.62 (16.1.97) PUBLIC RELEASE

- fixed another stupid bug in  
DATE  
ToolType handling  
- improved  
SCREENMENU  
routine

2.63 (5.2.97) PUBLIC RELEASE  
  
- added  
Window Movement  
options  
- added AM/PM display to clock's

---

- 12HRS  
mode  
-
- WBTITLE  
now detects Picasso96
- 2.64 - 2.69 INTERNAL TEST VERSIONS
- 2.70 (14.4.97) PUBLIC RELEASE
- implemented
  - TITLEACTIVATE - implemented
  - SUNPOPOP - implemented
  - WBMENU - implemented
  - LEFTYMOUSE - implemented
  - MAPCAPSLOCK - implemented
  - SCRMODEID - implemented
  - PRTSC\_LEFT and PRTSC\_RIGHT - implemented simple
  - ToolAlias  
option  
- extended
  - WBABOUT  
to show CyberGraphX version  
- added
  - SUPERLAYERS  
support for CyberGraphX v3  
- fixed bug in Qualifier handling code  
- improved some routines  
- included
  - HandleCX  
source  
- changed  
registration  
details  
- sorry, german documentation not finished yet
- 2.71 (24.4.97) PUBLIC RELEASE
- fixed some very small bugs
- 2.72 (12.5.97) PUBLIC RELEASE
- added
  - WIDE  
option for extended TitleBar  
- improved
  - SCREENMENU  
to be PowerWindows compatible
- 2.73 (20.5.97) PUBLIC RELEASE
-

- added  
DPMS  
for CyberGraphX

2.74 (4.6.97) PUBLIC RELEASE

-  
WBABOUT  
now works with SetPatch 43.6

2.75 (15.8.97) PUBLIC RELEASE

- added  
PUBSCREENALIAS  
- added Reboot option to  
WBMENU  
- MultiCX now automatically handles Executive, so ↔  
it  
should be removed from Executive's Tasklist.

## 1.59 To do

-----  
Planned features for later versions:  
-----

- some more small patches...

Please send me your suggestions!

## 1.60 PatchList

-----  
List of Patches  
-----

Name	Library	needed for
OpenScreen, OpenScreenTagList	intuition	SA_PENS SA_AUTOSCROLL SA_FONT LOCKPENS (OS 3.x) BLACKBORDER (OS 2.x)
OpenWindow, OpenWindowTagList	intuition	SHAPEFREEZER NEWLOOKMENUS (OS 3.x) WBTITLE FIXOPENWB (OS 3.x) PUBSCREENALIAS
CloseWindow	intuition	SHAPEFREEZER WBGauge

SetPubScreenModes	intuition	LOCKPUBFLAGS	
SetMenuStrip	intuition	NEWLOOKMENUS	(OS 3.x)
EasyRequestArgs	intuition	ASSIGNWEDGE	
		WBABOUT	
SetWindowTitles	intuition	WBTITLE	
		WBGauge	
LockPubScreen	intuition	FIXOPENWB	(OS 3.x)
		PUBSCREENALIAS	
OpenWorkBench	intuition	FIXOPENWB	(OS 3.x)
CloseWorkBench	intuition	NOCLOSEWB	
CreateGadgetA	gadtools	NEWLOOKPROPS	
WBenchToFront	intuition	SHAPEFREEZER	
ScreenToFront, ScreenToBack	intuition	SHAPEFREEZER	
ScreenDepth	intuition	SHAPEFREEZER	(OS 3.x)
DoIO, SendIO	exec	NOFORMAT	
		NOBOOTWRITE	
Format	dos	NOFORMAT	
Lock	dos	LOCKPATCH	
ColdReboot	exec	RESETHANDLER	
DisplayBeep	intuition	NODISPLAYBEEP	
DisplayAlert	intuition	ALERTTIME	(OS 3.x)
ModifyIDCMP	intuition	WBGauge	
LoadSeg, NewLoadSeg	dos	OLDTOOL	
		NEWTOL	

## 1.61 Legal

---

### Legal Stuff

---

MultiCX 2.x is SHAREWARE !!!

If you use it permanently please send me a donation of US\$ 20 (DM 30).  
Please add \$5 when you send me a cheque to cover clearing charges.

All users who have sent a gift for MultiCX 1.x may use this and all  
further coming updates without paying anything.

Bank Account for money transfer:

Martin Berndt    Konto 4185180009    BLZ 35060386    Vereinsbank Duisburg

Registered users should contact me  
to get rid of some strange new features...

THANK YOU FOR YOUR SUPPORT !

---

## Copyright

-----

MultiCX is written and copyright © 1994-1997 by  
 Martin Berndt

. No parts  
 of this program may be altered by any means (this includes editing,  
 reprogramming, crunching, resourceing etc.), except archiving.

## Disclaimer

-----

The author is in no way liable for any changes made to any part of the  
 program, or consequences thereof as he is in no way liable for damages  
 or loss of data directly or indirectly caused by this software.

## Distribution

-----

Neither fees may be charged nor profits may be made by distributing this  
 piece of software. Only a nominal fee for costs of magnetic media may  
 be accepted, the amount of US \$5 shouldn't be exceeded for a disk  
 containing MultiCX. CD Manufactures are specifically granted the right  
 to include this program on CD collections, as long as they are for the  
 Public Domain. But the user still has to pay the Shareware fee!

-----

**1.62 Credits**-----  
Credits

The following persons deserve special thanks from me as they made a  
 significant contribution to the development of MultiCX:

- Olaf "Olsen" Barthel                   for his good advice in many cases
- Jürgen Kempkes                       for  
     MUI-MCXPrefs  
     - Christian Bauer                   for  
     ShapeShifter  
     , the best Mac-Emulator
- Frank Mariak                         for making  
     CyberGraphX  
     - Kai Iske                         for  
     WBGauge  
     artwork
- Niels Görs                           for the german documentation
- all my Beta-Testers                 for reports and constructive criticism
- Mike Oldfield                        for the best music on this little planet

-----

- the TNG crew                                   for the greatest adventures in universe
- my girlfriend Heike                           for everything and for just being there
- my son Daryl                                   for moral support
- my coffee machine                           for coffee support   ;-)

## 1.63 HandleCX

-----  
 HandleCX 1.3 (19-Mar-95)  
 -----

HandleCX is a CLI-replacement for Exchange to help you handling your commodities. In many cases it is useful to have full control over all running commodities in scripts, e.g. to start a game which does not like screenblankers.

-----  
 Usage  
 -----

The syntax of the HandleCX command is:

```
HandleCX CX_NAME/M,L=LIST/S,V=VERBOSE/S,P=POPUP/S,H=HIDE/S,E=ENABLE/S,
        D=DISABLE/S,R=REMOVE/S,T=TOGGLE/S
```

The parameters are:

CX_NAME		name of a commodity, case-indeparentent, must be quoted if it contains spaces, multiple names and wilddarding are allowed
LIST	or L	lists all or selected commodities, may be combined with other commands
VERBOSE	or V	like LIST, but with more infos
POPUP	or P	like "Show Interface" in Exchange
HIDE	or H	like "Hide Interface" in Exchange
ENABLE	or E	like "Active" in Exchange
DISABLE	or D	like "Inactive" in Exchange
REMOVE	or R	like "Remove" in Exchange
TOGGLE	or T	toggles Active/Inactive status

---

Only ONE command is allowed at a time!  
That means only the first command found will be executed.

List format:

```

$07146028: MultiCX           ACTIVE  GUI
$071460B0: Arq 1.79         ACTIVE  NOGUI
$07146138: Magic Menu       ACTIVE  GUI
$071461C0: CycleToMenu      ACTIVE  GUI
$07146248: Exchange         ACTIVE  GUI
$071462D0: DynamiCache      ACTIVE  GUI
$07146730: MFS              ACTIVE  GUI
$071467B8: CrossDOS         ACTIVE  GUI
$07146840: AlertPatch       ACTIVE  GUI
$071468C8: CrossMac         ACTIVE  GUI
$07146950: PowerSnap        ACTIVE  GUI
$071469D8: ClipHistory 0    ACTIVE  GUI
$07146A60: Clipbook         ACTIVE  GUI
$07146AE8: SwazInfo         ACTIVE  GUI
$07146B70: ToolManager      ACTIVE  NOGUI
$07146BF8: PrinterManager   ACTIVE  GUI
$07146D08: DragIt           ACTIVE  GUI
^           ^               ^     ^
|           |               |     |
|           CX_Name         |     |
|           |               |     |
|_____  Address of Structure |     |
|           |               |     |
|           Commodity is ACTIVE _____|     |
|           |               |     |
|           Commodity has a GUI or not _____|

```

Verbose list format:

```

$07157418: MultiCX           ACTIVE  GUI
: MultiCX 2.0 - ©1995 by Martin Berndt (Adds many nice features)

```

---

### History

---

- 1.0 - initial release
  - 1.1 - implemented wildcarding  
Some AmigaShell replacements need quotes around wildcards!
  - 1.2 - changed command template,  
verbose list implemented
  - 1.3 - implemented TOGGLE option
-