

NewReqLibs

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Contents

1	NewReqLibs	1
1.1	NewReqLibs.guide	1
1.2	introduction	2
1.3	requirements	2
1.4	installation	3
1.5	trtpatch	3
1.6	asl.library	5
1.7	req.library	5
1.8	history	7
1.9	credits	9
1.10	distribution	10
1.11	author	10

Chapter 1

NewReqLibs

1.1 NewReqLibs.guide

=====
July 29, 1997

Torbjörn Andersson
presents
NewReqLibs 1.8

Freeware
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1. Contents

Contents	1
Introduction	2
Requirements	3
Installation	4
TRTPatch	5
asl.library	6
req.library	7

History	8
Credits	9
Distribution	10
Author	11

1.2 introduction

2. Introduction

In the Libs directory of this distribution you will find the libraries `asl.library` and `req.library`. They are both a rewrite of the original ones (the standard `asl.library` and `req.library` by Colin Fox and Bruce Dawson).

My `asl.library` uses `reqtools.library` for putting up requesters, which makes it small and saves memory. It is also useful if you prefer the `reqtools-requesters`.

My `req.library` uses `asl.library` for file- and font-requesters, `reqtools.library` for string-requesters and `intuition.library` for text-requesters (except under KS 1.2/1.3 where `reqtools.library` is used for them too). This makes it small and gives you better requesters (standard ones where possible).

In this distribution you will also find the program `TRTPatch`. Its main purpose is to patch some kickstart functions to use `reqtools.library`.

1.3 requirements

3. Requirements

NewReqLibs requires AmigaOS 1.2 or higher, and `reqtools.library` (preferably version 38 or higher).

Note that the original `asl.library` does not work on kickstart releases before 2.0, but my one does (except for the screen mode requester, which isn't available in `reqtools.library` on KS 1.2/1.3).

1.4 installation

4. Installation

This distribution contains three parts to be installed:

- Copy Libs/asl.library to the LIBS: drawer.
- Copy Libs/req.library to the LIBS: drawer.
- Copy TRTPatch to your system and start it every time you boot.

You can choose freely which parts to install, they work independent of each other.

1.5 trtpatch

5. TRTPatch

TRTPatch is a program that will do some changes to the OS. Some functions are patched to use reqtools.library to open a requester. The patches can't always make use of reqtools.library and they will then call the original function.

TRTPatch can be started from both Workbench and CLI. It is pure and can be made resident (with C:Resident). The CLI usage is:

```
NOTRAP/S, NOALERT/S, NODISPALERT/S, NOTMEDALERT/S, NOAUTOREQ/S,  
NOEASYREQ/S, QUIET/S:
```

Explanation of options:

NOTRAP:
Don't patch exec.library/AddTask().

NOALERT:
Don't patch exec.library/Alert().

NODISPALERT:
Don't patch intuition.library/DisplayAlert().

NOTMEDALERT:
Don't patch intuition.library/TimedDisplayAlert().

NOAUTOREQ:
Don't patch intuition.library/AutoRequest().

NOEASYREQ:
Don't patch intuition.library/EasyRequest().

QUIET:
Don't show information about installed patches.

Functions patched:

- `exec.library/AddTask()`.

The default task trap handler doesn't call `exec.library/Alert()` through the LVO, and trap handling of processes use a requester. To make the `Alert()` patch more usefull, this `AddTask()` patch will install a new trap handler in each task added to the system. This trap handler switches to user mode and calls `exec.library/Alert()` through the LVO.

When this patch is installed, all task that doesn't have its own custom trap handler will have the same one installed that the patch installs when new tasks are added.

- `exec.library/Alert()`.

The original function displays an alert number which doesn't tell you very much, especially if you are not a programmer. This patch will use `reqtools.library` to open a nice requester and display a lot of information.

The title will read "Not enough memory"/"Software Failure" or "Recoverable Alert", just like the first sentence of the original `Alert()`.

The address of the task that called `Alert()` is displayed together with its task name and eventually cli command name. The usual alert number is displayed, and information that could be extracted from it - who caused the alert and why. A dump of CPU registers are also shown.

There are four responses to choose between - Continue, Suspend, Reboot and Alert. Continue is the same as pressing the left mouse button after an original `Alert()`, the execution will continue with unpredictable results. Suspend will stop the execution of the task. Reboot will reboot the machine. Alert will call the original `Alert()`.

- `intuition.library/DisplayAlert()`.

This patch will try to display the text in a requester instead. There are five responses to choose between - LMB, Suspend, Reboot, Alert and RMB. LMB and RMB does the same as if you pressed the left or right mouse button after an original `DisplayAlert()`. Suspend will stop the execution of the task. Reboot will reboot the machine. Alert will call the original `DisplayAlert()`.

- `intuition.library/TimedDisplayAlert()`.

Requires kickstart release 3.0. Identical to the `DisplayAlert()` patch.

- `intuition.library/AutoRequest()`.

This patch will use `reqtools.library` for the requester.

- `intuition.library/EasyRequest()`.

Requires kickstart release 2.0. This patch will use

reqtools.library for the requester.

1.6 asl.library

6. asl.library

Current version emulated is 39.6.

The font requester in reqtools.library has no option to let the user select draw mode or colors. When my asl.library is asked to do that, it opens its own requester first (requires AmigaOS 2.04+). The user can select those things, and then either "Cancel" the requester, "Proceed" to the font requester in ReqTools, or select "OK" directly.

The requester is somewhat limited, these things will always be the same: size (320x200), font (Topaz 8) and text strings (English default), except text inside the Mode cycle gadget.

A feature is that you can use the keyboard for every choice. In addition to those keys the underlined characters corresponds to, four more can be used:

- Return - OK
- Esc - Cancel
- R - Restore
- U - Restore (undo)

To see how all this works, try "Select Workbench Icon Text..." in the Font Preferences editor.

Tags ignored:

- ASLxx_PositiveText, if longer than six characters.
- ASLxx_NegativeText
- ASLxx_InitialLeftEdge
- ASLxx_InitialTopEdge
- ASLxx_InitialWidth
- ASLxx_InitialHeight
- ASLFR_RejectIcons
- ASLFR_FilterDrawers, for the text in the pattern gadget.
- ASLSM_InitialInfoOpened
- ASLSM_InitialInfoLeftEdge
- ASLSM_InitialInfoTopEdge
- ASLSM_CustomSMList

Flags ignored:

- FRF_FILTERDRAWERS, for the text in the pattern gadget.
- FRF_REJECTICONS

1.7 req.library

7. req.library

Current version emulated is 2.5.

Doesn't use any port ("req timer port") when using TextRequest() with timeout.

No extra memory is allocated for the images. The image data is already in a hunk that is loaded into chip memory.

Rexxsyslib.library is never opened, thus rl_RexxSysBase will always be zero.

Functions:

Center()

SetSize()

SetLocation()

ReadLocation()

ReqFormat()

Dispatch()

- Never tries to open rexxsyslib.library.

- Always returns the value 14.

FakeFunction2()

FakeFunction3()

FakeFunction4()

FileRequester()

- Calls asl.library/AllocAslRequest()/

asl.library/AslRequest()/

asl.library/FreeAslRequest().

- Pattern:

- Any asterisk (*) will be replaced by "#?".

- The contents of frq_Hide is shown (as ~(pattern)), if frq_Show is an empty string.

- Changes made in the pattern gadget will not be saved for next call.

- frq_MaxExtendedSelect is ignored.

- frq_numlines is ignored.

- frq_numcolumns is ignored.

- frq_devcolumns is ignored.

- frq_*color is ignored.

- frq_*Pos is ignored.

- frq_Flags:

Supported:

- SHOWINFO

- EXTSELECT

- CACHING

(Although asl.library V39 never caches a directory.)

- GETFONTS

- HIDEWILDS

- ABSOLUTEXY

- SAVING

- DIRONLY

Ignored:

- INFOGADGET

- CACHEPURGE

- NOHALFCACHE

- NOSORT

```

- NODRAG
- LOADING

ColorRequester()
- Calls ExtendedColorRequester().
DrawBox()
MakeButton()
MakeScrollBar()
PurgeFiles()
- Calls asl.library/FreeAslRequest().
GetFontHeightAndWidth()
MakeGadget()
MakeString()
MakeProp()
LinkGadget()
LinkStringGadget()
LinkPropGadget()
GetString()
- Calls reqtools.library/rtGetString().
- d0=visiblechars is ignored.
RealTimeScroll()
TextRequest()
- Calls intuition.library/EasyRequest()
  (reqtools.library/rtEZRequest() on KS 1.2/1.3)
  or (if timeout is used)
  intuition.library/BuildEasyRequest()/
  intuition.library/SysReqHandler()/
  intuition.library/FreeSysRequest()
  (reqtools.library/rtEZRequest()/
  reqtools.library/rtReqHandler() on KS 1.2/1.3).
- TR_KeyMask is ignored.
- TR_AbortMask is ignored.
- If no gadgets are specified, the requester will get one
  named 'OK' anyway
  (intuition.library/EasyRequest() requires this).
GetLong()
- Calls reqtools.library/rtGetLong().
RawKeyToAscii()
ExtendedColorRequester()
- Calls reqtools.library/rtPaletteRequest().
NewGetString()
- Calls GetString().
- gs_visiblesize is ignored.

```

1.8 history

8. History

```

-----
"Req:" means change in req.library.
"Asl:" means change in asl.library.

```

```

1.0 (26.2.95)
..~First release.

```

1.1 (4.3.95)

- Included PatchArp.
- ~Included new asl.library.
- ~Changed name from NewReqLib to NewReqLibs.

1.2 (26.3.95)

- Arp: Handles FRF_DoMsgFunc and FRF_DoWildFunc.
- Asl: AslRequest() makes dos.library/IOErr() return ERROR_NO_FREE_STORE if request is NULL, else 0.
- Asl: Handles ASLxx_PositiveText if not longer than six chars.
- Asl: Handles ASLxx_IntuiMsgFunc.
- Asl: Some bug fixes.
- ~Asl: Handles FOF_DOMSGFUNC and FRF_DOMSGFUNC.
- Req: TextRequest() now handles TR_Timeout.
- PatchArp: Cuts off code left over in FileRequest(), finally resulting in a smaller arp.library. :-)
- Changed function tables to use relative word displacements instead of absolute function pointers.

1.3 (18.6.95)

- ~Asl: Fixed bug in handling of ASLxx_PositiveText.
- ~Asl: Fixed bug in handling of FRF_DOMULTISELECT.
- Asl: Fixed bug in Expunge().

1.4 (5.8.95)

- Req: Fixed bug in Center().
- Req: Fixed bug in ReqFormat().
- Included PatchOS.

1.5 (30.1.96)

- Removed installation script.
- Removed PatchArp.
- Renamed PatchOS to TRTPatch.
- TRTPatch: Removed enforcer hit.
(caused by calling dos.library/PutStr(0))
- TRTPatch: AutoRequest() and EasyRequest() patches passed "System Request" when window title was zero, they now pass a NULL string.
- TRTPatch: Removed options WILDSTAR, NOCLICK and BBLANK.
- Asl: Removed enforcer hit in font requester.
- Asl: When doing multiple selection, the wa_Lock fields in rf_ArgList was always set to zero.
- Req: Didn't cache directory when cancel was selected.

1.6 (23.9.96)

- Req: Fixed minor bug in ReadLocation().
 - TRTPatch: Alert()-patch shows cli command name also.
 - Req: Fixed wrong stack handling in RawKeyToAscii().
 - ~Req: Fixed Enforcer hit with timeout option.
 - ~Req: TextRequest() uses intuition.library/EasyRequest(), or BuildEasyRequest()/SysReqHandler()/FreeSysRequest() if timeout option is used, and FileRequester() uses asl.library. (This is instead of reqtools.library.)
 - Asl: ASLxx_SleepWindow, ASLSM_DisplayDepth and ASLSM_OverscanType were not properly handled.
sm_AutoScroll field was always set to zero.
-

Sets SCREQF_NONSTDMODES.

- TRTPatch: EZREQF_NORETURNKEY is never set anymore.
- ~TRTPatch: Alert()-patch times out (KS 3.0+).

1.7 (5.10.96)

- Req: Handled FRQHIDEWILDSB wrong.

1.8 (29.7.97)

Req:

- ~Works on KS 1.2/1.3 again.
- Sets FRF_PRIVATEIDCMP, which fixes at least one incompatibility problem.
- ~ReadLocation() was still not correct. Now I use (almost) the same routine as in my program TextView.
- If you used the file requester, removed the disk it listed a directory on, and opened the requester again, you would get two "Please insert volume XXX in any drive" - requesters. The one caused by req.library is now removed.
- Supports frq_Flags-ABSOLUTEXY and frq_WindowLeftEdge/frq_WindowTopEdge.
- DrawBox() preserves registers d0/d1/a0/a1.
- MakeScrollBar() made arrow gadgets 9 pixels high instead of 10 when using a vertical scrollbar.
- gl_result is left unchanged if GetLong() requester is cancelled.
- NewGetString() passes gs_visibleSize to GetString().
- NewGetString() preserves registers d1/a0/a1.
- If HIDEWILDS is set, both frq_Show and frq_Hide are supported, by using ASLFR_AcceptPattern and ASLFR_RejectPattern.

TRTPatch:

- Works on KS 1.2/1.3 again.
- Changed order of buttons in TimedDisplayAlert()- and DisplayAlert()-patches, from LMB|RMB|Suspend|Reboot|Alert to LMB|Suspend|Reboot|Alert|RMB.
- Didn't show correct value for SP in Alert()-patch.

Asl:

- Handles ASLxx_FilterFunc and FxF_DOWILDFUNC.
- Handles ASLFR_RejectPattern, ASLFR_AcceptPattern and ASLFR_FilterDrawers.
- Clears pr_WindowPtr, since ReqTools looks for window there, but not Asl.
- Uses its own window to handle these flags/tags:

FOF_DOFROTPEN	ASLFO_DoFrontPen	ASLFO_MaxFrontPen
FOF_DODRAWMODE	ASLFO_DoBackPen	ASLFO_MaxBackPen
	ASLFO_DoDrawMode	ASLFO_FrontColors
	ASLFO_ModeList	ASLFO_BackColors

1.9 credits

9. Credits

 Thanks to Nico François for reqtools.library.

1.10 distribution

10. Distribution

No commercial usage of NewReqLibs is allowed without written permission from the author. Other distribution is allowed if no files in the original distribution are removed or modified.

1.11 author

11. Author

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I love you - AMIGA
