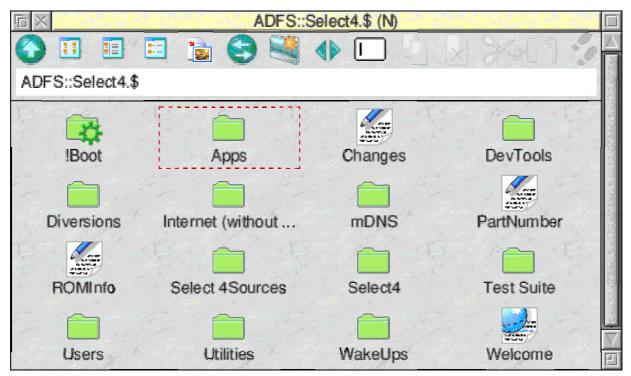


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Screenshot of test version of Filer Speedbar and new filer with interactive search.

Alt-Click in the relevant filer window and then use alphanumeric keys to type the first letters of the required file or directory. e.g typing DI would highlight Diversions. The arrow keys can also be used to scroll around the filer window. Pressing Return will either run the file or open the next level directory.

announced earlier in the year, production of RISC OS 4.02 ROMs has now ceased and all stock has been sold. Total sales of RISC OS 4.02 ROMs to endusers and manufacturers exceeded 6,400 copies. All orders for RISC OS 4 upgrades will now be fulfilled by RISC OS 4.39 "Adjust" ROMs.

Select forthcoming new **Features**

All Select development since the release of Select3i4 has been towards the goal of Just a few of the new features already developed total conversion of the RISC OS 4 sources to be 32 bit neutral.

 $RISC\ OS\ 4.39\ "Adjust"\ ROM\$ RISC OS source this has meant a lot of extra work ensuring that the two versions of RISC OS produced from this new source are stable for both 26 bit processors and 32 bit processors. As may be expected this has not proved as simple as just producing a new version of RISC OS solely to suit a particular processor, but is essential work to be done now to avoid problems in supporting both types of processors in the future. In the past the Select scheme has deliberately not touched certain areas of the OS, but the conversion to 32 bit has meant that every part has been examined, with the inevitable discovery of old and new bugs as well as old, but previously unknown features.

for Select 4 include ongoing development work on Paint and Draw as well as a considerable number of new graphics renderers. The Filer has The first milestone in that project was the been updated to support some more advanced production of a 26 bit RISC OS ROM facilities than it has ever had before. This image from the 32 bit neutral sources last includes features such as keyboard command Christmas. With the goal of using just one shortcuts and "search as you type" shown above.

Kernel

Assembler based components are now fonts are:built using ObjAsm and a modern makefile.

Kernel has lots of abstraction of its NewHall (NewCenturySchoolbook) graphics APIs. It also now correctly Pembroke (Palatino) supports LD/ST 'T' and SWP in abort trap mode. Kernel now has no pointer support (OSPointer module now has this).

FPEmulator no longer explicitly colludes with the kernel for errors flattening the ATA Hard Drives SVC stack.

flattening the SVC stack.

Kernel has been updated substantially; video hardware is now driven by an external module. The only significant change that has yet to be completed is banking of modes.

RedrawManager has been added, and includes numerous over fixes extremely poor 0.08 version we were delivered.

Basic

BASIC assembles LD/ST now properly.

Stubs G

allow the development of applications that can run on RISC OS 3 -> 5).

Fonts

All the source (near enough) is now In order to better integrate with Postscript updated to be 32 bit safe. Support for 32 printers a full set of Standard Postscript bit only processor modes is included. compatible Fonts is to be included. The new

> Clare (AvantGarde)

Robinson (Bookman)

Churchill (ZapfChancery)

collection of extra Fonts will also be included.

Select 4 will include Enhanced ATA Hard disc FileSwitch no longer explicitly colludes drivers. These will only support ATA-4 and with the kernel for file execution above compliant drives. This means drives there were manufactured some time after 1996/7.

> The reason is that the ATA committee currently only support these. Drives as small as 1GB will fall into this spec and of course, if your drive is 8 years old, you probably shouldn't be using it for data!!! Filecore and HForm have been totally overhauled to support the latest ATA standards and SMART features.

Graphics

Video Hardware abstraction now provided to remove dependency on VIDC and IOMD 'T' architectures.

VideoHWVIDC provides the entire hardware driver for video. VideoSW provides the software implementation of certain graphical operations.

To work along side this suitable graphics cards can New version of StubsG release (which will now provide EDID monitor support

> SpriteExtend has is now capable of rendering CMYK and YCbCrK JPEGs.

> GIF Image File renderer now included as Unisys patent has expired.

Further enhancement to Paint and Draw packages.

e.g Paint - can now re-order sprite files

ConvertBMP can now take CMYK sprites and convert to BMPs.

sprites created from 16 colour icos are used to demo the functions which work. now 16 colour.

sprites to PNGs.

Image Viewer now has support for more work to be functional. exporting the viewed file in whatever types are known to the converter.

Internet

The Internet stack, and components, have undergone a number and, ultimately, users. The primary 'fff,faf'). improvements have been the addition of new modules for particular Internet Toolbox facilities - RouterDiscovery, InternetTime and ResolverMDNS.

Resolver has been updated to address significant issues implementation of expiry (i.e. it now has expiry), now provides DCI4 statistics and actually bothers to check that memory allocations succeed.

Internet now supports multicast filtering for drivers.

ResolverMDNS is present. Current thinking is that 'multicast DNS' is the name to use in literature - the Apple name "Rendezvous" is being phased out.

Appearance

The WindowManager has been updated positions. significantly. From this work, it is now for button icons to 'highlighted' when the mouse is over text area background sprite handling. them. This is not used by the built in

borders. However, a number of new borders will be supplied which will use this feature.

The FilerSpeedBar application provides an additional topbar on filer windows using the ConvertICO can now create ICOs from Pane interface. It's really just a test and isn't multi-sprite files and CMYK sprites; finished. It needs a bit of a redesign as it's only

The FilerImageBar application provides an ConvertPNG can now convert CMYK additional sidebar on filer windows using the Pane interface. It's not amazingly good, but it appears to work for many images. It'd need a lot

Filer

Easy system recognition of registered file types.

related Filer can embed panes in its windows.

of changes in order to address problems Filer uses Filer\$Types to set the types that can and provide new features to developers be used (use hex values, comma separated, eg

All toolbox modules should now work correctly if ResourceFS is restarted.

Window toolbox module now allows an expanded range of gadget operations in order to provide greater flexibility for the range of gadgets which can be provided - in particular gadget timers, gadget redraw events and the ability to add and remove icons from a gadget during its lifetime.

New ColourSwatch gadget.

Toolbox includes support for timers.

Window provides vertical labels.

Window has much improved support for Fonts in gadgets.

ScrollList can now decode click and DataLoad

be TextGadget has new features to support new

Keyboard

International Keyboard now generates different codes for left and right Meta keys. These are in order to fall in line with CTLs change to the design. Support for Multimedia Keyboards is also being developed.

Developers Tools

ResEd has been updated to support plugins for its gadgets, allowing it to be extended to use other gadgets as they become available. This is incomplete, but works well enough to replace earlier versions. This also icludes the full support for the ColourSwatch gadget.

Further Info

The following pages will give you some idea of the changes involved with 4.39

http://www.riscos.com/adjust/ AdjustROMchanges.htm

http://select.riscos.com/S3Features.html

Further programmers details are available at:-

http://select.riscos.com/Developers/ Issue1overview.htm

http://select.riscos.com/DBChanges/

A comparison of features between Select and RISC OS 5 can be found at

http://select.riscos.com/ iyonix_select.htm