Subject: New release 2024 "alpha phase" Posted by mirek on Sun, 08 Sep 2024 19:21:24 GMT View Forum Message <> Reply to Message

2024 (rev. >17373) (Sep 2024)

Upcoming release

Core

First release of U++ that requires C++17 Moveable concept redesigned with C++17 features. U++ now allows non-moveable types to be stored in Vector flavor of containers (using Upp::is\_upp\_guest). PODs are automatically moveable (aka trivially relocatable) Upp::Tuple now supports structured binding GetFileTime, GetFileLength, FileExists, DirectoryExists and FileMapping refactored Stream::GetAll now invokes LoadError on negative count ValueCache limits setting methods are simplified Value now directly supports 'float' type Some iffy code now made more C++ compliant (e.g. always using memcpy for unaligned data) AsXML had new XML\_ESCAPELF

plugin/Zip

zip64 support

Draw

UHD image now can serve as source for SD image New S3 .iml image flag - the images are drawn supersampled 3x, usually without antialiasing, and only downsampled at runtime

Painter

Multithreaded rendering further optimised New image filtering parameter - so far, rendering image was always with bilinear filtering, new parameter allows other Image filter like Lanczos 3

CtrlCore

Horizontal mouse scroll wheel support CtrlMapper now provides operator()(Ctrl, T, const T& factor) for simple unit conversions gtk backend improvements, XWayland mouse cursor bug workaround

## CtrlLib

CtrlMapper now provides operator()(Ctrl, T, const T& factor) for simple unit conversions

Icon Designer refactored and optimised, new tools added, S3 flag support added Alt-M now goes to special scratchpad file of the same type as is current file, this is helpful e.g. for temporary storing and editing parts of .iml images that are then composed to the final image. Output directory in assembly definition now can be left empty and defaults to reasonable path. Hexadecimal view is now much faster Fixed further corner case Assist++ problems Layout designer text field, used with e.g. Labels, now has Qtf button to edit text with RichEdit Git file history now goes through renames Compare with menu now suggests files in Download folder too Main package configuration dialog improved

plugin upgrades

plugin/sqlite3: 3.46.0 plugin/lzma: 24.6 plugin/zstd: 1.5.6 Core: LZ4 1.9.4 plugin/z: 1.3.1 plugin/png: 1.6.46 plugin/tif: 4.6.0 plugin/jpeg: 9f

Win32

OpenSSL upgraded to 3.2.1 Clang compiler upgraded to 18.1.5

## ide