Subject: 2024rc1

Posted by mirek on Sat, 28 Sep 2024 07:16:42 GMT

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2024 (rev. 17417) (Sep 2024)

https://sourceforge.net/projects/upp/files/upp/2024rc1/

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

Improved DarkTheme function

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

ide

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