

### 8.2.1: August 18, 2018

- Command-line Enhancements
  - Add **--keep-files-open=[yn]** to override default determination of whether to keep files open when merging. Please see the discussion of **--keep-files-open** in [Section 3.3, “Basic Options”, page 4](#) for additional details.

### 8.2.0: August 16, 2018

- Command-line Enhancements
  - Add **--no-warn** option to suppress issuing warning messages. If there are any conditions that would have caused warnings to be issued, the exit status is still 3.
- Bug Fixes and Optimizations
  - Performance fix: optimize page merging operation to avoid unnecessary open/close calls on files being merged. This solves a dramatic slow-down that was observed when merging certain types of files.
  - Optimize how memory was used for the TIFF predictor, drastically improving performance and memory usage for files containing high-resolution images compressed with Flate using the TIFF predictor.
  - Bug fix: end of line characters were not properly handled inside strings in some cases.
  - Bug fix: using **--progress** on very small files could cause an infinite loop.
- API enhancements
  - Add new class **QPDFSystemError**, derived from **std::runtime\_error**, which is now thrown by **QUtil::throw\_system\_error**. This enables the triggering **errno** value to be retrieved.
  - Add **ClosedFileInputSource::stayOpen** method, enabling a **ClosedFileInputSource** to stay open during manually indicated periods of high activity, thus reducing the overhead of frequent open/close operations.
- Build Changes
  - For the mingw builds, change the name of the DLL import library from **libqpdf.a** to **libqpdf.dll.a** to more accurately reflect that it is an import library rather than a static library. This potentially clears the way for supporting a static library in the future, though presently, the qpdf Windows build only builds the DLL and executables.

### 8.1.0: June 23, 2018

- Usability Improvements
  - When splitting files, qpdf detects fonts and images that the document metadata claims are referenced from a page but are not actually referenced and omits them from the output file. This change can cause a significant reduction in the size of split PDF files for files created by some software packages. Prior versions of qpdf would believe the document metadata and sometimes include all the images from all the other pages even though the pages were no longer present. In the unlikely event that the old behavior should be desired, it can be enabled by specifying **--preserve-unreferenced-resources**. For additional details, please see [Section 3.8, “Advanced Transformation Options”, page 13](#).
  - When merging multiple PDF files, qpdf no longer leaves all the files open. This makes it possible to merge numbers of files that may exceed the operating system's limit for the maximum number of open files.