Subject: Re: FTP class and reference example for U++
Posted by Oblivion on Sun, 01 Apr 2018 22:17:07 GMT
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Hello,

It's been a long while since the last update.
A new and major release of FTP class is finally here: Version 2.0.0

New version is far superior to the older (v 1.2) version of FTP package. Basically it is simpler yet more powerful.
API-wise, although I've tried hard to keep the old interface intact, and partially succeded in this, some breakages were necessary.
Yet I will also maintain the old code for some time.

I had to redesign the Ftp class to let it take advantage of the non-blocking interface I used in SSH pacakge. Now they are almost identical. :)

Here are the major changes:

MAJOR RELEASE: Ftp package, version 2.0.0
          Necessary API breakage.
          Ftp is redesigned, using an effective, and simple queue-model similar to the SSH package's.
          Old multithreading code completely ditched in favor of the new AsyncWork based ftp workers.
          This resulted in noticable performance gain, and simplicity.
          Non-blocking mode is finally implemented. Ftp class can do non-blocking calls easily.
          FTPS mode improved. It is now possible to inspect the SSL information after handshake.
          Support for user-defined consumer functions (for incoming data) is added.
          A simple ftp URL scheme is implemented. This scheme replaces (partially) the old Ftp::Request class.
          UTF-8 path name encoding support is added.
          Optional Connect/Login() methods pair added. It is now possible to execute commands before login.
          Ftp::DirEntry now uses pcre to parse listing strings.
          Logging is improved.
          Reference examples are added to the package.

Reference examples provided with the package:

- FtpGet: Demonstrates a basic FTP file download in blocking mode.
- FtpGetNB: Demonstrates a basic FTP file download in non-blocking mode.
- FtpGetMT: Demonstrates a basic Ftp file download, using worker threads.
- FtpMultiGetMT: Demonstrates FTP dir listing and concurrent file transfers, using worker threads.

- FtpGUI: Demonstrates a basic FTP browser with GUI (with upload, download, mkdir, rename, delete commands).
- FtpOverTLS: Demonstrates the secure connection capability of FTP package in blocking mode.
- FtpQueryFeatures: Demonstrates the feature query mechanism, as defined in RFC 2389
- FtpRawCommand: Demonstrates FTP raw command execution in blocking mode.

As usual, the updated package can be found in the first message of this topic.
And you can also grab it from:

Latest code is located at: https://github.com/ismail-yilmaz/upp-components/tree/master/ Core/FTP
Reference examples can be found at:
https://github.com/ismail-yilmaz/upp-components/tree/master/ Examples
Older version (1.2) can be found at:
https://github.com/ismail-yilmaz/upp-components/tree/master/ Attic/FTP

A screenshot of the simple FtpGUI example (GUI is inspired by the qt's example):

Suggestions, bug reports, patches, etc. are appreciated.

Best regards,
Oblivion

File Attachments
1) FtpGUI.png, downloaded 852 times