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Subject: Upp 602 beta released  
Posted by [unodgs](#) on Mon, 06 Feb 2006 22:15:03 GMT  
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Changelog since last snapshot:

Added:

- Xmlize: now supports doubles
- uint64 stou64(const char \*s, void \*endptr = NULL, unsigned base = 10)
- Reference example: GuiMT - shows how to do multithreaded GUI apps
- Reference example: SliderProgressInd (based on arius's example)
- Reference example: VirtualCount
- Display::PaintBackground - used to paint margins in ArrayCtrl (and similar elements elsewhere)
- TheIDE: Mingw compilation now emits "-mthreads" for the multithreaded build
- TheIDE: command-line build options
- UMK (Ultimate make): utility to build U++ apps from commandline (works invoking TheIDE)
- Multithreading guarantees
- TrayIcon class to manage taskbar buttons

Modified:

- Socket logging turned off by default
- Removed Callback(s)::operator== and Callback(s)::GetHashValue
- Pte/Pter: alternative implementation with global lock

Fixed:

- ipow10: A very nasty bug causing calculating nonsense numbers for  $i > 50$
- Timer queue: callbacks with the same time are now invoked in order of posting them
- TopWidow::ExStyle: now works with open windows
- Linux multithreading