Subject: Print raw data (direct print)
Posted by tojocky on Fri, 30 Mar 2012 08:36:50 GMT
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Hello,

I propose to add method to communicate direct with a printer.

For this I want to share with windows code, for linux I developed this by using lpr -oraw in nodeJS JavaScript code.

OK. The windows U++ version is:

```
#include <Core/Core.h>
#include <windows.h>
#include <Winspool.h>
#pragma  comment(lib, "Winspool.lib")

using namespace Upp;

bool RawDataToPrinter(const String &printername, const String &data, const String &docname,
const String &type);

bool RawDataToPrinter(const String &printername, const String &data, const String &docname){
 return RawDataToPrinter(printername, data, docname, "RAW");
}

bool RawDataToPrinter(const String &printername, const String &data){
 return RawDataToPrinter(printername, data, "My Document", "RAW");
}

#if COMPILER_MSC
//
// RawDataToPrinter - sends binary data directly to a printer
//
// printername: String specifying printer name
// data:        String raw data bytes
// docname:     String specifying document name
// type         String specifying data type. E.G.: RAW, TEXT, ...
//
// Returns: true for success, false for failure.
//
bool RawDataToPrinter(const String &printername, const String &data, const String &docname,
const String &type){
    bool     bStatus = false;
    HANDLE     hPrinter = NULL;
    DOC_INFO_1 DocInfo;
    DWORD      dwJob = 0L;
```

```
   DWORD      dwBytesWritten = 0L;

   // Open a handle to the printer.
   bStatus = OpenPrinter( (LPTSTR)(~printername), &hPrinter, NULL );
   if (bStatus) {
      // Fill in the structure with info about this "document."
      DocInfo.pDocName = (LPTSTR)(~docname);
      DocInfo.pOutputFile = NULL;
      DocInfo.pDatatype = (LPTSTR)(~type);

      // Inform the spooler the document is beginning.
      dwJob = StartDocPrinter( hPrinter, 1, (LPBYTE)&DocInfo );
      if (dwJob > 0) {
         // Start a page.
         bStatus = StartPagePrinter( hPrinter );
         if (bStatus) {
            // Send the data to the printer.
            bStatus = WritePrinter( hPrinter, (LPTSTR)(~data), data.GetLength(),
&dwBytesWritten);
            EndPagePrinter (hPrinter);
         }else{
            Cout()<<"StartPagePrinter error\n";
         }
         // Inform the spooler that the document is ending.
         EndDocPrinter( hPrinter );
      }else{
         Cout()<<"StartDocPrinter error\n";
      }
      // Close the printer handle.
      ClosePrinter( hPrinter );
   }else{
      Cout()<<"OpenPrinter error "<<printername<<"\n";
   }
   // Check to see if correct number of bytes were written.
   if (!bStatus || (dwBytesWritten != data.GetLength())) {
      bStatus = false;
      Cout()<<"not sent all bytes\n";
   } else {
      bStatus = true;
   }
   return bStatus;
}
#else
 #error Wrong OS for compile raw printer
#endif
```

and a little test to communicate with ZEBRA label printer:

```
CONSOLE_APP_MAIN
{
 String data;
 data<<"N"
  <<"\nS4"
  <<"\nD15"
  <<"\nq400"
  <<"\nR"
  <<"\nB20,10,0,1,2,30,173,B,\"123456\""
  <<"\nP0"
  <<"\n";

 ToAscii(data);
 if(RawDataToPrinter("\\\\ilupascu.main.orange.md\\ZEBRA", data)){// or local printer just the
name of the printer
  Cout()<<"OK\n";
 }else{
  Cout()<<"FAILED\n";
 }
}
```

Subject: Re: Print raw data (direct print)
Posted by Lance on Sat, 31 Mar 2012 15:05:42 GMT
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Interesting.

A few years ago I did some work to print to ESC-capable printer (eg. Epson dot-matrix) because I need to print to label of 1" height.

Your work could be used when there are no fixed paper heights, e.g., receipt printing. A quick question, can I use it to print formatted text or even image?

Subject: Re: Print raw data (direct print)
Posted by tojocky on Sat, 31 Mar 2012 19:14:57 GMT
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Lance wrote on Sat, 31 March 2012 18:05A quick question, can I use it to print formatted text or even image? It depends on printing language!
