Subject: Print unwanted copy
Posted by forlano on Sun, 21 Dec 2014 13:15:43 GMT
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Hello,

when I select to print 2 or 3 copy of a document then the printer produces 4 and 9 copies. I have not tried with other numbers to test if there is some quadratic relation between number of copy and that really printed.
Do you have the same problem? (U++ 7862)

Thanks,
Luigi

Subject: Re: Print unwanted copy
Posted by Klugier on Sun, 21 Dec 2014 21:54:07 GMT
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Hello Forlano,

Can you write more about your operating system specification? It is X11/GTK/POSIX printing dialog?

If you want to analyze source code you can find it in CtrlLib/PrinterJob.cpp.

Sincerely,
Klugier

Subject: Re: Print unwanted copy
Posted by forlano on Mon, 22 Dec 2014 07:46:42 GMT
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Klugier wrote on Sun, 21 December 2014 22:54Hello Forlano,

Can you write more about your operating system specification? It is X11/GTK/POSIX printing dialog?

If you want to analyze source code you can find it in CtrlLib/PrinterJob.cpp.

Sincerely,
Klugier

Hello Klugier,

the problem appears under Windows (any version).
I'll have a look to PrinterJob.cpp.

Thanks,
Luigi

Subject: Re: Print unwanted copy
Posted by Klugier on Mon, 22 Dec 2014 15:29:14 GMT
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Hello Forlano,

For me this code look strange (PrinterJob - Windows code - line 102):

```
for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? dlg.nCopies : 1); c++)
 for(int i = dlg.nFromPage - 1; i <= dlg.nToPage - 1; i++)
  for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? 1 : dlg.nCopies); c++)
   page.Add(i);
```

Double "c" definitions in loop is definitely not good idea.

And why for the one condition there is different result:

```
(dlg.Flags & PD_COLLATE) ? dlg.nCopies : 1)
(dlg.Flags & PD_COLLATE) ? 1 : dlg.nCopies)
```

Sincerely,
Klugier

Subject: Re: Print unwanted copy
Posted by forlano on Mon, 22 Dec 2014 17:30:55 GMT
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Klugier wrote on Mon, 22 December 2014 16:29Hello Forlano,

For me this code look strange (PrinterJob - Windows code - line 102):

```
for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? dlg.nCopies : 1); c++)
 for(int i = dlg.nFromPage - 1; i <= dlg.nToPage - 1; i++)
  for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? 1 : dlg.nCopies); c++)
```

```
   page.Add(i);
```

Double "c" definitions in loop is definitely not good idea.

And why for the one condition there is different result:

(dlg.Flags & PD_COLLATE) ? dlg.nCopies : 1)
(dlg.Flags & PD_COLLATE) ? 1 : dlg.nCopies)

Sincerely,
Klugier

Hello Klugier,

it looks like there is a double loop... the quadratic relation I was speaking about.
I do not know which to remove.
Mirek should know what to do

Thanks,
Luigi

Subject: Re: Print unwanted copy
Posted by mirek on Thu, 25 Dec 2014 10:09:03 GMT
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Klugier wrote on Mon, 22 December 2014 16:29Hello Forlano,

For me this code look strange (PrinterJob - Windows code - line 102):

```
for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? dlg.nCopies : 1); c++)
 for(int i = dlg.nFromPage - 1; i <= dlg.nToPage - 1; i++)
  for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? 1 : dlg.nCopies); c++)
   page.Add(i);
```

Double "c" definitions in loop is definitely not good idea.

And why for the one condition there is different result:

(dlg.Flags & PD_COLLATE) ? dlg.nCopies : 1)
(dlg.Flags & PD_COLLATE) ? 1 : dlg.nCopies)

Sincerely,

Klugier

Ah, that actually is OK: Collate means that copies are kept "together", I mean, if collate is active and you are printing 3 pages 2 copies, you are supposed to get 1 1 2 2 3 3, while with collate 'off', you get 1 2 3 1 2 3. Which IMO is excactly what the loop does.

Anyway, that doubling of copies is (for me) long existing bug, it has rather something to do with some misunderstanding of printer driver and windows print dialog. It affects only some printers and some drivers. Which reminds me that I have not tried with my current win8.1 and current printer, time to investigate this bug again...

Subject: Re: Print unwanted copy
Posted by forlano on Thu, 25 Dec 2014 13:06:34 GMT
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mirek wrote on Thu, 25 December 2014 11:09

Ah, that actually is OK: Collate means that copies are kept "together", I mean, if collate is active and you are printing 3 pages 2 copies, you are supposed to get 1 1 2 2 3 3, while with collate 'off', you get 1 2 3 1 2 3. Which IMO is excactly what the loop does.

Anyway, that doubling of copies is (for me) long existing bug, it has rather something to do with some misunderstanding of printer driver and windows print dialog. It affects only some printers and some drivers. Which reminds me that I have not tried with my current win8.1 and current printer, time to investigate this bug again...

Hello,

I have commented the first loop and now prints the correct number of copies.
I do not know if this backfire.

Luigi

Subject: Re: Print unwanted copy
Posted by mirek on Thu, 25 Dec 2014 19:44:48 GMT
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I think it will work if you comment out both loops as well... the problem is I am not sure this is going to work on all OS/driver combinations...

Mirek

Subject: Re: Print unwanted copy
Posted by mirek on Thu, 25 Dec 2014 19:56:53 GMT
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Well, it looks like this really is Microsoft bug, see "known issue" for PD_USEDEVMODECOPIESANDCOLLATE

http://msdn.microsoft.com/en-us/library/windows/desktop/ms64 6843%28v=vs.85%29.aspx

In any case, I have now tried the workaround proposed by KB, which basically says "always depend to OS/Driver to do copies".

Please try this:

```
bool PrinterJob::Execute0(bool dodlg)
{
 pdlg = new Win32PrintDlg_;
 PRINTDLG& dlg = *pdlg;
 dlg.Flags =
PD_DISABLEPRINTTOFILE|PD_NOSELECTION|PD_HIDEPRINTTOFILE|PD_RETURNDEFAU
LT;
 dlg.nFromPage = current;
 dlg.nToPage = current;
 dlg.nMinPage = from;
 dlg.nMaxPage = to;
 if(from != to)
  dlg.Flags |= PD_ALLPAGES;
 dlg.hwndOwner = 0;
 dlg.Flags |= PD_RETURNDEFAULT;
 dlg.nCopies = 1;
 if(!PrintDlg(&dlg)) return false;
 if(dlg.hDevMode) {
  DEVMODE *pDevMode = (DEVMODE*)::GlobalLock(dlg.hDevMode);
  pDevMode->dmOrientation = landscape ? DMORIENT_LANDSCAPE : DMORIENT_PORTRAIT;
  ::GlobalUnlock(dlg.hDevMode);
 }
 HDC hdc;
 if(dodlg) {
  dlg.Flags =
PD_DISABLEPRINTTOFILE|PD_NOSELECTION|PD_HIDEPRINTTOFILE|PD_RETURNDC|PD_
USEDEVMODECOPIESANDCOLLATE;
  Vector< Ptr<Ctrl> > disabled = DisableCtrls(Ctrl::GetTopCtrls());
  bool b = PrintDlg(&dlg);
  EnableCtrls(disabled);
  if(!b) return false;
  hdc = dlg.hDC;
 }
 else {
```

```
  DEVNAMES *p = (DEVNAMES *)::GlobalLock(dlg.hDevNames);
  const char *driver = (const char *)p + p->wDriverOffset;
  const char *device = (const char *)p + p->wDeviceOffset;
  if(dlg.hDevMode) {
   DEVMODE *pDevMode = (DEVMODE*)::GlobalLock(dlg.hDevMode);
   hdc = CreateDC(driver, device, NULL, pDevMode);
   ::GlobalUnlock(dlg.hDevMode);
  }
  else
   hdc = CreateDC(driver, device, NULL, NULL);
 }
 if(dlg.hDevMode)
  ::GlobalFree(dlg.hDevMode);
 if(dlg.hDevNames)
  ::GlobalFree(dlg.hDevNames);
 if(hdc) {
  draw = new PrintDraw(hdc, Nvl(name, Ctrl::GetAppName()));
  page.Clear();
  if(!(dlg.Flags & PD_PAGENUMS)) {
   dlg.nFromPage = dlg.nMinPage;
   dlg.nToPage = dlg.nMaxPage;
  }
//  for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? dlg.nCopies : 1); c++)
   for(int i = dlg.nFromPage - 1; i <= dlg.nToPage - 1; i++)
//    for(int c = 0; c < ((dlg.Flags & PD_COLLATE) ? 1 : dlg.nCopies); c++)
     page.Add(i);
  return true;
 }
 return false;
}
```

(also in trunk, for now).

Mirek

Subject: Re: Print unwanted copy
Posted by forlano on Thu, 25 Dec 2014 21:01:20 GMT
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Yes, it works.

Thanks,
Luigi
