QuickReport Knowledge Base (kb.txt)
Frequently asked Questions (and Answers) and other tips
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QuickReport 3 specific items will start with the text "(QR3)" or will appear in their own section. Delphi 4 items will start with "(D4)"
We have added a QuickReport 3 Release Notes web page at http://www.qusoft.com/relnotesqr3.
htm which will contain the latest news on QR3.
The PDF versions of this file were created automatically using code provided by TK Cham.
He has a web site at http://members.xoom.com/tkcham/pdfindex.html

Adding reports and/or controls at runtime
==

Q. How do I create a group band at runtime?
A. You can call the band's create constructor and set it's properties.
```
   with TQRGroup.Create(Self) do
   begin
     Parent := QuickRep1;
     Master := Parent;
     Expression := 'CustNo';
   end;

   with TQRDBText.Create(Self) do
   begin
     Parent := QRGroup1;
     Dataset := QuickRep1.Dataset;
     DataField := 'CustNo';
   end
```

Q. When I use QRCreateList() it looks like it's finding fields from the current record in another dataset. The other dataset has the same field names as the one that I am passing to QRCreateList().
A. The problem is in the field names. The QRCreateList adds TQRExpr controls to the report and sets the expression to the field name without the table name. When the report runs, QuickReport searches until it finds the first matching field name. Without the table name, it will use the first dataset that has a matching a field name. This is a known bug and will be addressed in a future release. That's the bad news. The good news is that you can easily alter the report after calling QRCreatelist and add the table name to the expression.
Example:
```
QRCreateList(aReport, Self, MyTable, 'Customer Listing', SomeFields);

{ Search the detail band for any TQRExpr controls and insert }
{ the table name after the left bracket in the expression }

for nIdx := 0 to aReport.Bands.DetailBand.ControlCount -1 do
  if aReport.Bands.DetailBand.Controls[nIdx] is TQRExpr then
    with TQRExpr(aReport.Bands.DetailBand.Controls[nIdx]) do
      Expression := '[' + aReport.DataSet.Name + '.' + copy(Expression, 2, 99);
```
(QR3) This has been fixed for QuickReport 3. Also with QR3, areport must be of type TCustomQuickRep
----
Q. When I create a report at runtime and pass it to QRCreateList(), it does not use my title.
A. This is happening because you have created the report before the call to QRCreateList.
     If the report that is passed to QRCreateList is nil, then it is assumed that you want QuickReport to create the entire report for you. If you pass in a report that has

already been created, we assume that you have already formatted the report with a title,
pageheader, pagefooter, etc, and that you only want QuickReport to create the detail band
for you.

Q. Using QR2 (or later) and trying to call addprintable in the beforeprint event of a
band causes a GPF (or an Access Violation). Is this not allowed for some reason?

A. You can only call AddPrintable or otherwise add a control to a report band before you
start the report. QuickReport needs to know about all printable controls before it
starts the report.

Q. I am generating report at run time and I have a question: If for example I set
QuickReport.HasTitle as true it automatically creates the title band. The problem is that
I won't be able to know the name of title variable that was created.

A. You can reference it through the report's bands property like with the following
example:

```
    with QuickRep1 do
    begin
      ReportTitle := 'Sample Report';
      Bands.HasTitle := true;
      with TQRSysData(Bands.TitleBand.AddPrintable(TQRSysData)) do
      begin
         Data := qrsReportTitle;
         AlignToBand := true;
         Alignment := taCenter;
      end;

      Preview;
    end;
```

This adds a titleband with the report's title centered on the band. You will need to add
the quickrpt and qrctrls units to the use list in the unit that has this code.

You can reference each band type that can be set through the HasXXXXX properties from the
following list:
TitleBand
PageHeaderBand
ColumnHeaderBand
DetailBand
PageFooterBand
SummaryBand

Q. If you use the method AddPrintable, how can you access the control that was created?

A. Just assign the control created by AddPrintable to a variable of that type of control.
  You can then change the top and left properties by referencing that variable.
Example:

```
var
  MyCtrl : TQRSysdata;
  .....
  MyCtrl := TQRSysData(Bands.TitleBand.AddPrintable(TQRSysData));
  with MyCtrl do
  begin
     Data := qrsReportTitle;
     AlignToBand := true;
     Alignment := taCenter;
  end;
```

Q. I get an error when I try to use the QRCreateList example from the manual.

A. You must make sure to set the aReport variable to nil before calling the QRCreateList
method. This was omitted from the documentation. The following example shows how to
call this method:

```
    procedure TFormMain1.btnCreateListClick(Sender: TObject);
    var
      aReport : TQuickRep;
      SomeFields: TStringList;
      MyTable: TTable;
      nIdx: integer;
    begin
      { Create a table on the fly, this example uses a table from the demo database }
      MyTable := TTable.Create(self);

      { create the list of fields to output from the table }
      SomeFields := TStringList.Create;
      with MyTable do
      begin
        DatabaseName := 'DBDEMOS';
        TableName := 'COUNTRY.DB';
        ReadOnly := True;
        Active := True;

        { For this example, we will pull the field names from the table }
        for nIdx := 0 to FieldCount - 1 do
          SomeFields.Add(Fields[nIdx].FieldName);
      end;

      { You must set the report object to nil before calling QRCreateList}
      areport := nil;

      { Build the report }
      QRCreateList(aReport, Self, MyTable, 'Test Listing', SomeFields);

      { You can change the report objects before calling the report }
      areport.page.orientation := poLandscape;

      {preview or print the report}
      aReport.Preview;

      { all done, free the objects }
      aReport.Free;
      MyTable.Free;
      SomeFields.Free;
    end;
```

Q. How can I change the field width and spacing in a report created with QRCreateList?

A. The width of the fields is calculated by setting the caption of each header to the character 'X', with count coming from the field's DisplayWidth property. The spacing between each field is set to 10. If you change the displaywidth property of a field, it will be reflected in the report.

To change the spacing, you can either modify the source code or change the spacing in the report after you call QRCreateList.

Example:

```
  QRCreateList(aReport, Self, tbCountry, 'Test Listing', SomeFields);

  // Now reduce the spacing between each field by 5 (nIdx declared as integer)
  for nIdx := 0 to aReport.Bands.ColumnHeaderBand.ControlCount -1 do
    if aReport.Bands.ColumnHeaderBand.Controls[nIdx] is TQRPrintable then
      with TQRPrintable(aReport.Bands.ColumnHeaderBand.Controls[nIdx]) do
        Left := Left - (5 * nIdx);
```

```
        for nIdx := 0 to aReport.Bands.DetailBand.ControlCount -1 do
          if aReport.Bands.DetailBand.Controls[nIdx] is TQRPrintable then
            with TQRPrintable(aReport.Bands.DetailBand.Controls[nIdx]) do
              Left := Left - (5 * nIdx);
```

Bands
=====

Q. I have a detail band with 3 stretching QRLabels on them, When the band breaks over a
    page, I get some of the 1st QRLabel on one page and the rest of that QRlabel with all of
    the other QRLabels on the next page. Is there any way to get to split all three
    components over the page?
A. No, this is a limitation of QuickReport. When a band prints, it starts out at it's
    design time size and prints each component, one by one. If a component can stretch, the
    band stretches in increments until all of the text has printed. If this happens over a
    page break, it will print what is already on the band. With three stretching controls,
    we are not going to be able to print them all at the same time when the band goes over a
    page break.
    You have several options depending on where the data comes. If you can build the text
    line by line. I would use a subdetail band with 3 single components. You could use the
    OnNeedData event to loop the subdetail band to print each line. If the band is less than
    the height of the page, you could run the report in 2 passes and record the stretched
    length of the band in pass one and use that value to manually size the band on the 2nd
    pass. There is a Delphi example on our download page named QR3LSD4.ZIP that has most of
    the code for doing this. Another option would be to put the data in a single RichEdit
    component and separate the data by tabs. That would print as a single component.

Q. My report goes out of control when I have child bands attached to the page header.
A. You can not have a page header where the height (including all child bands) is
    greater than a page. This is not supported. When the page header prints, the child
    bands that belong to the page header will be printed. If one of the child bands doesn't
    fit on the page, it will cause a page break and the page header print code will be called
    again. This will put the page header code in a recursive loop until the computer runs
    out of disk space or memory.

Q. I just added a new subdetail band and it's at the bottom of the report. How do I put
    it in the correct location?
A. The band order is determined by the band type, it's master property, and it's
    creation order. If the master property is blank, then the band will be placed at the
    bottom of the report. If the subdetail band "belongs" to the detail band, then the
    master property should be set to the report. If it belongs to another subdetail band,
    set the master property to that band

Q. I just added a subdetail band to a report that already has a couple of subdetail
    bands. How can I put the new band above the other ones?
A. If you are trying the subdetail band before another one that has the same value for
    the master property, the safest way to do this is to view the form as text and cut and
    the paste the band to the location that you want. The band order is determined by the
    band type, it's master property, and it's creation order.

Q. Why does GroupHeader (or Detail) band's BeforePrint event executes before than
    PageHeader band's BeforePrint event?
A. When the GroupHeader (or Detail) band's BeforePrint event has executed, the report is
    still on the previous page. After it processes the BeforePrint, it checks to see if the
    band will fit on the page. If it doesn't fit, a new page is generated and the PageHeader
    BeforePrint event is called. You can suppress the band from printing with the
    BeforePrint event, that is why it doesn't do a new page until after the BeforePrint event
    has run.

Q. I would like to have a blank row every fifth line. Is there an example on how to do
    this?

A. A simple way to this is to add a childband to the detailband. In the ChildBand's
    BeforePrint event, set the PrintBand variable that is passed in the event to true every
    5th band and false the rest of the time.
    Example:

```
procedure TfrmBands.ChildBand1BeforePrint(Sender: TQRCustomBand;
  var PrintBand: Boolean);
begin
  PrintBand := (TQuickRep(Sender.Parent).RecordNumber mod 5) = 0;
end;
```

Q. My ColumnHeader bands are not printing when there isn't any data for the report
A. You must have at least one detail band printed to print a column header band.

Q. I found this Bug in one of my reports, where the Detailband has the height of two
    lines and the AutoStretch Label is on the first of this lines. So the Band was expanded,
    still if there was enough room for a second line.
A. This is not a bug, it is designed this way. Our assumption is that if you have extra
    space below a control, then that space is there for a reason and we expand the band to
    keep that space. You could increase the height of the control to cover that space and
    then the band will not increase until that space is used up.

Q. I have a childband and I set it's PrintBand to false based on certain conditions.
    When the band doesn't print, QuickReport doesn't check this and will generate a new page
    is this band would have been the last band on page.
A. QuickReport checks the space required for the next band before the BeforePrint event
    of that band is processed. There is a simple work around that will resolve this issue.
    In the BeforePrint event of the previous band (in this case, the detail band), set the
    height of the child band to 0. You could store the height of the child band in it's Tag
    property at the same time. In the BeforePrint event of the ChildBand, you would set the
    height back to original height when you have set PrintBand to True.

Q. How can I create a report with a Title band to print ABOVE the Page Header band?
A. The print order of the bands is fixed, you can not print a title band above the page
    header. One work around would be to use a child band with the page header. Put the page
    header information on the child band and place the title information on the actual page
    header band. In the Page Header band's BeforePrint event, set PrintBand to false when
    the report's PageNumber property is greater than 1.

Q. How do I get the column header for to print right above the detail band when I also
    have a group band?
A. ColumnBands always printed at the top (after the title and pageheader bands). There
    are a couple of ways of doing what you are looking for. You could either put the column
    labels on the group band or on a child band attached to the group band.

Q. Is there a way to print a band as footer only on the last page of a report.
A. Instead of using a footer band, use a summary band and set it's AlignToBottom
    property to true.

Q. When my band is split on two pages, how can I keep the non-stretching text controls
    on the first page?
A. If you have both stretching and non-stretching components on the same band make sure
    the non-stretching are printed first (right click and select 'send to back')

Q. How do I disable the detail band so that I can calculate in the detail section
    without printing it? I just want the summary band to print.
A. Set PrintBand to false in the band's BeforePrint event. That will suppress the
    output of the band, but the expressions will still be calculated.
    (QR3) NOTE: This behavior changed with QuickReport 3. To emulate the Quick Report 2 code,
     instead of setting PrintBand to false, set the height of the band to 0 when you want to
    suppress it and still use it for functions. Just remember to set the height back to the
    design time height when you do want to print the band.

Q. How can I add a child band at runtime and fields to it?
A. The way to create a child band is to set the HasChild property of the parent to true. The following code creates a child band and then adds a QRLabel control to the child band

```
  QRGroup1.HasChild := true;
  with TQRLabel(QRGRoup1.ChildBand.AddPrintable(TQRLabel)) do
  begin
    Left := 0;
    Top := 0;
    Caption := 'Hello there';
  end;
```

Q. Is there any possibility to extract the fields embedded in a specific band during run-time?
A. The bands are descended from TCustomPanel and you can use the ControlCount property to loop through all of the controls on the band.
For example:

```
with PageHeaderBand1 do
  for nIdx := 0 to ControlCount -1 do
    if Controls[nIdx] is TQRLabel then
      TQRLabel(Controls[nIdx]).Caption := IntToStr(nIdx);
```

Q. We trying to use a QRBand in order to create a 'ColumnFooter' but w/o success. Do you have some tip ?
A. Quickreport does not have a column footer band. One way to get a band to print at the bottom of each page would be to use a page footer band and place QRLabels underneath where each column would be.

Q. How do I reference the name of a childband created at runtime by setting a band's HasChild property to true?
A. You must create the Childbands before the report starts. All QuickReport bands and controls must exist before the report starts. The easiest way to create a childband is the set the HasChild Property of the parent band to true. You can reference the child band through the Parent band's ChildBand property. The childband will have a blank name property, but you can set that at runtime. The following example shows how to create a childband, add a label to it, and then get the name of that band:

```
procedure TfrmReport.FormCreate(Sender: TObject);
var
  MyChild: TQRChildBand;
begin
  QRGroup1.HasChild := true;
  with TQRLabel(QRGRoup1.ChildBand.AddPrintable(TQRLabel)) do
  begin
    Left := 0;
    Top := 0;
    Caption := 'Hello there';
  end;
  MyChild := QRGRoup1.ChildBand.Name;
end;
```

Q. How do I check the height of a band with stretching controls at runtime?
A. This can not be done with QuickReport 2.0. The ability to retrieve the height of stretching controls will in the 3.0 release (due out later this year).

Q. Is it possible to have 2 or more PageHeader Bands in same Report ?
A. You can not have multiple PageHeader bands on a report, but there are ways to resolve this. The simplest way would be to add a child band to the page header and put the fields on the child band that would be used for the 2nd page header. You would then use the BeforePrint event of the page header and of it's child to decide at run time which band to print.

Q. I have a detail band with a child band. I want to change the number and layout of the controls on the child band at runtime, but I get an exception error when I add new controls while the report is running.

A. All bands and the controls on the bands must be created before the report starts, otherwise you will get the exception that you reported.

There are a couple of ways of doing this. One way is to have multiple child bands, each one with a different layout to fit your needs. At run-time, you control which child bands can be output. Just use the BeforePrint event and set the PrintBand variable to false for the ones that you do not want to print.

If you only want one band, put all of the controls on it. and at run time hide the ones that you do not need by setting their Enabled property to false. To have the controls use the enabled property, you must be using version 2.0j or newer.

Q. I have a report that has about 10 child bands that may or may not get printed depending on run time criteria. This report always prints two pages, even if it only needs one to accommodate the Childbands allowed at run time. Is there a workaround for this?

A. In the report's form create event, set each childband's tag property to it's height value and then set the height to 0. Whenever you set printband to true in the BeforePrint event of a band, set the band's height to the it's tag value. In the AfterPrint event, set the height back to zero again.

Barcodes
========

Q. Where can I get a barcode component to use with QuickReport?

A. We do not provide a barcode control, but on our download page, there are some links to companies who do barcode controls for QuickReport.

Q. Where can I find a barcode font that I can use with QuickReport?

A. There are many companies that have barcode fonts, here are a few of them:
CIA (Bar Codes), Wythenshawe, Manchester, UK   http://ourworld.compuserve.
com/homepages/CIA_UK
Rivers Edge, Cedar Park, TX, USA   http://www.riversedge.com
Azalea, Seattle, WA, USA   http://www.azalea.com

C++Builder
==========

Q. I can not find any of the C++ source code files to QuickReport.

A. QuickReport is written entirely in Delphi, there are no C++ files in the package.
C++Builder has the ability to compile Delphi files directly to .obj and .hpp files.

Q. I tried to build one the demo projects, only to get errors indicating that the files VCLMID40.bpi and DSS40.bpi could not be found.

A. You will have to remove those references from the project or makefiles (the file with the .BPR extension). C++Builder includes package references from the C++Builder C/S version even though those packages were never referenced by the demo. If that does not work, delete the project file and create a new one using the units from this project.

Q. I mix Delphi code with C++ code in 3.0.5 and C++Builder 4 and I get an error about qrlabled not being compiled with the quickrpt unit.

A. The 3.0.5 installer copied the qrlabled.* files to the lib directory and they should be in lib\obj. If you manually copy the files in, that will fix the error.

Q. I just installed QR 3 into C++Builder 4 and I can't link the project that I created with BCB3.

A. Make sure that the project is using qrpt40 as the runtime package instead of the qrpt43c file from BCB3. The QR3 installer will not modify your project files, you may have to manually edit the .bpr files.

Q. I just installed QR 3 into C++Builder 3 and I can't link the project.

A. Make sure that the project is using qrpt43c as the runtime package instead of the qrtp35 file from QR2. The QR3 installer will not modify your project files, you may have to manually edit the package list and header files used by the project. For C++Builder 4, the package name is qrpt40.bpl.

Q. I just installed 3.0.5 into C++Builder 4 and the preview's print and print setup buttons are disabled.

A. We have had isolated reports of this and it appears to be related to the precompiled headers feature of C++Builder. Try deleting the vcl40.csm file (or the filename listed under the compiler project options for precompiled headers) from the cbuilder4\lib directory.
Select 'Build with runtime packages' in the program options, and verify that qrpt40.bpl (C++Builder 4) or qrpt43c.bpl (C++Builder 3) is in the corresponding package list. The QR3 installer will not modify your project files, you may have to manually edit the package list and header files used by the project.

Q. I get an access violation if set the detail band's ForceNewPage property to true at runtime.

A. This can happen if you smart linking enabled. You can either turn off the smart linking or set the property at design time.

Q. I am trying to write my own Quick Report control using C++Builder 3.0, but I am getting an incorrect value when I try reading the TQRPrinter's FXFactor property? It evaluates as 1.68100026993337964E-4932 when it should be 1.

A. A user did some research on this and discovered BCB 3 thinks that variables of the type extended are 12 bytes (instead of 10 bytes) and is shifting the data by two bytes when an extended variable is used in a class. If you need to use extended variables in Quick Report classes, it may be easier to do that code in Delphi Pascal and just let BCB compile it in.

Q. I have a project in which I'm using QR2.0i (standard CB3 package). I installed Quick Report 3 and recompiled. The program won't run because of the exception "objectname->Functions.Strings: Property does not exist." I have not changed the code in any way.

A. You will need to check your project make files to make sure that you are not pulling in any QR2 header or object files. The functions property is a property of the TCustomQuickRep class and does not exist in QR2. You would get this message if you tried to compile a form with a QR3 object but used Qr2 header files. You will need to replace any reference to the QR2 package file QRPT35.bpi with qrptc43.bpi.

Q. Will my Quick Report professional 2.0i work with new C++Builder 3.0 or I should wait for an upgrade from you?

A. The current release will not work with it, but C++Builder 3.0 will come with a version of QuickReport 2 that we have compiled for it. We will post new releases for it after Borland releases 3.0.

Q. I am trying to use QuickReport with C++Builder, but your documentation and examples are all Delphi based.

A. QuickReport is primarily a Delphi product, we do not have the resources to provide the same level of support to the C++Builder users as we can for Delphi users.

Composite Reports and multiple dataset reporting
===

Q. I have a TQRCompositeReport, with two TQuickReps. The First TQuickRep is a single column report. The second is a three column report. It should print on one page (first

report about 2/3 page, second report last 1/3). The first column of the second report prints fine. The second column starts at the top of the page, and overwrites data from the first report.

A. You can't mix single and multiple column reports in the CompositeReport, it's not supported. The only way you can do this is to force a newpage at the start of each report.

Q. How do I make a MDI custom preview that supports the CompositeReport?

A. Custom Previews for CompositeReports can be done in the Delphi version of QuickReport 3. There is a QR3 MDI demo project on our download page. Due to language differences, this fucntionality is not available for C++Builder.

Q. I have an application that saves a series of reports to the QRP format. I would like to print them all at once as a single print job, is that posible?

A. In the QR3RNGD4.ZIP project on our download page, we have a function named CombineQRP() in the qrqrp.pas unit. The function takes a stringlist of QRP filenames and combines them into a single QRP file. You can then load that file into a preview or the TQRPHandler class for viewing or printing. This can be used as an alternative to the CompositeReport.

Q. The save button does not work for the export filters in the preview for the composite report.

A. The export filters are not supported by the TQRCompositeReport component. The only work around is to export each report individually.

Q. What are the steps to load reports and preview composite reports. I add reports to the TList property of QRComposite and then call preview and the preview is empty.

A. You must add the reports in the TQRCompositeReport's OnAddReports event or they will not be picked up.
Example:

```
procedure TMainForm.QRCompositeReport1AddReports(Sender: TObject);
begin
  with QRCompositeReport1 do
  begin
    Reports.Add(ListForm.QuickRep);
    Reports.Add(GrpListForm.QuickRep);
    Reports.Add(MDForm.QuickRep);
    Reports.Add(ManyGrpForm.QuickRep);
  end;
end;
```

Q. How can we save a composite report to a file (*.QRP) from source code? (We can not access a QRPrinter object for Composite Report (seems to be declared 'private')).

A. You should be able access the qrprinter by referencing the qrprinter of one of the individual reports in the composite report after you call Prepare.

Q. Is there a way to set it up so that each individual report making up the composite starts on a new page when that portion goes to print?

A. To get the second (or 3rd...) report to start on a new page, make sure that 2nd report has a title band and in the title band's BeforePrint event, call the NewPage method of the second report. If this report is used outside of the composite report, you will need to disable that code.

Q. Why wasn't the Composite Report fixed in 2.0 or 3.0?

A. There are problems with TQRCompositeReport that are related to printer settings, header/footer bands, exporting, and a few other issues. If this isn't important to you please use the component as much as you like. The reason for not publishing the fixes is that they require changes to the interface sections of the units/packages and this breaks package dependencies with Delphi and 3rd party packages that use QuickReport.

You can build a single report that would behave like multiple reports. The way you would lay it out would be to leave the detail band empty and set PrintIfEmpty to true. Then

add subdetail bands to handle each report. The master property of each band would be set to the report and they would run one after the other. You would use each subdetail band as if it was the detail band for the individual report.

An alternative way would be to use the report's Prepare method and save the report to a . QRP files (example code can be found in our Knowledge Base on our download page.) We have a demo project on our download page named qr3rngd4.zip that has a unit named qrqrp. pas. This unit has a function called CombineQRP() that can take a list of QRP files and generate a single QRP file from them. You can then preview and or print that file with the TQRPHandler class.

Q. I wish to create a report which lists the contents of two unrelated tables. How do I do this if you can only have one detail band per report?

A. Use multiple subdetail bands, one for each table. Set their Master property to the report. You don't need a detail band, but you will need to set the PrintIfEmpty property of the report to true. Each subdetail band can have nested subdetail bands and group header and footer bands.

Q. One of the reports in my Composite Report has Landscape Orientation, and the others are Portrait. The report prints everything in Portrait

A. You can not mix landscape and portrait oriented reports with the composite report.

Q. I'm currently using QuickReports for printing static forms without any report functionality. This works fine for me. Then I try to print multiple forms (multiple TQuickReps) as one print job. Therefore I´m using the TQRCompositeReport component but if there are no report components on the TQuickReps nothings happens if you try to print or preview. Is there a way to print different static forms as one print job ?

A. The CompositeReport control requires that the reports have their controls on report bands. I was able to print two static reports in a composite report by using a detail band size to fit the page and with the report's PrintIfEmpty set to true.

Q. In a report I need just to apply a new filter to the qreport dataset and then continue the report. It's like running several reports but "bundled" all together in one preview / report.

A. You can not change the filter on an open dataset, that's a BDE limitation. One way to do this would be to use multiple subdetail bands for each band. Each band could use the same dataset. You would add a group footer band to each dataset. You would close it, change the filter, and the reopen it in the group footer band of the PREVIOUS dataset.

Datasets
========

Q. Is it possible to exclude the BDE in any of the 2.x versions of QuickReport as one can do with QR1.1a using the line: {$define XBDE}? If so, which 2.x version?

A. QuickReport 2 does not have the XBDE compiler directive that was in QuickReport 1. If you are using Delphi 2 or later, this should not be a problem, as the BDE does not get initialized until the first time that it's called. If you are using Delphi 1, the only alternatives are to either include the BDE or to use QuickReport 1.

Q. I am getting the error "Unable to locate source file "quickrpt.pas" and after that EBDEngineError "Table does not support this operator"

A. There appears to be a bug in the BDE that allows datasets to make a call to the RecordCount property when that value is not supported by all databases. We have yet to find a satisfactory work around that works for all databases. You can manually edit the quickrpt unit and comment out the call that causes this exception.

Copy the quickrpt.pas to your project directory.
Look for the line that contains "RecCount := ParentReport.RecordCount;" in the quickrpt unit (the location of the line in the unit will vary depending on which release of QR2 you are using) and comment it out.
Recompile your report (you don't need to add the quickrpt unit to your project, Delphi

```
    will find it).

    Even though there is a try..except block in our code, Delphi is still throwing an
    exception.  If you modify this code in the quickrpt unit and comment out the code in the
    if DataSetOK block, you will no longer get that error.
------------------------------------------------------------------------------------
```

DLLs and ActiveX
===============

Q. I'm passing a dataset to a report in a DLL and none of the TQRExpr controls are
     displaying data.
A. The TQRExpr control checks the type of the dataset field. When you pass a dataset to
     a report in a dll, the runtime type information (RTTI) is not available and the TQRExpr
     control can't check the data type.

Q. Is there any known problems using Quick Report in a Delphi 2 (or 3) DLL? Each time I
     am finished and make a call to FreeLibrary() from my calling application, the calling
     application freezes.
A. There is a known problem unloading a Quick Report dll, something is not being freed
     and that's why your call to FreeLibrary hangs.
     The simplest solution is to add QuickRpt and QRprntr (and possibly QRextra) units to the
     uses clause of the calling app's project source unit. This way the QR dll's are already
     loaded and the dll will simply increase/decrease the reference count as it is
     loaded/freed.

Q. Where is the ActiveX component that is mentioned on your web page?
A. We still have some remaining issues to fix with the ActiveX component before we can
     release it.

Q. I think I have installed version QuickReport 3 correctly with Delphi 3, and it prints
     short reports if I call the PRINT command. If I use preview however, I receive a "Control
     has no parent window error" when I press the print button. I didn't have this problem
     with Version 2.0K.
A. The DLL needs a reference to the calling application so that the DLL's forms are
     children of the application. Please see the Delphi help page for TApplication.Handle.

Documentation and help files
==========================

Q. I like to have the manual loaded, but Word takes up a lot of resources
A. We have an Adobe Acrobat version of the QuickReport 2 manual available via FTP from
     ftp://ftp.qusoft.no/pub/quickrep/qr2acro.zip

Q. I don't find information on TQRCompositeReport.
A. Documentation for the TQRCompositeReport will be included in a later release. There
     are a few programming issues that still need to be fixed for the Composite Reports and we
     will release the documentation after they have been resolved. The example demo program
     included with QuickReport 2 does use the CompositeReport so you can follow that if you
     wish to work with the CompositeReports before we release the update.

Q. I cannot find information about Options Property for TQuickRep
A. The first options (FirstPageHeader, LastPageFooter) are self describing. If the
     FirstPageHeader is set to false, then the page header will not be printed on the first
     page. LastPageFooter works in a similar manner If the Compression property is set to
     true, then a simple compression routine is used on the internal metafile storage of a
     rendered report.
     Please note that a bug was introduced in Delphi 3.02 that prevents compressed QRP files
     from being loaded.

Q. How does the OnPrint event work?
```

**A.** The OnPrint event is called just before the control is printed. The string to be outputted is in the Value property and can be changed. This property is also useful to suppress printing of repeated values.  This event only gets called at runtime, the design time preview will not call any of the event handlers.

--------------------------------------------------------------------------------

**Q.** How do I install the help files into Delphi 3's integrated help?

**A.** 1. Copy the file QUICKRPT.HLP  into the HELP directory under the Delphi 3 main directory.
2. Add the line
:Link quickrpt.hlp
to the "Third-Party Help" section at the bottom of the DELPHI3.CFG file  located in the Delphi HELP directory.
3. Delete the hidden file Delphi3.GID in the HELP directory.

The next time you launch the Delphi 3 help, it will rebuild the delphi3.gid file and the QuickReport help file will be in the integrated help.  Please note that this help file is not complete and will not have support for all controls.  This will addressed in the 3.0 release.

--------------------------------------------------------------------------------

**Exporting reports**
=================

**Q.** Can I export only the detail band (instead of the whole report)?  I also want to export fields that would not show up in the preview.

**A.** The report has property named Exporting and it set to true when you are exporting a report.  At runtime, you can enable or disable bands and  text components based on the value of Exporting in the report's BeforePrint event.

--------------------------------------------------------------------------------

**Q.** How can I export files to the EMF format?

**A.** Set the Enhanced property of the TQRWMFFilter component to true and EMF files will be exported instead of WMF.

--------------------------------------------------------------------------------

**Q.** I have a report that uses queries that take a long time to execute.  I tried using the Prepare method so the report would not have to be rendered again when the user prints.  This is keeping the user from exporting the report,  How can I let the user export the report with out having to runt he queries all over again?

**A.** Quickreport can only export reports when they are being generated.  When you call Prepare, the report is written to a linked list of metafiles.  There is no way to take the data out of the metafile and export to another format.
One alternative method would be to query the data to a temporary table (or set of tables) and use that table for the report.  That way you will only have to run the queries once.

--------------------------------------------------------------------------------

**Q.** I lose my QRCharts when I export the report.

**A.** With the exception of the WMF filter, only the plain text fields are support for exporting, the chart, shape, RTF, and image components are not currently supported.

--------------------------------------------------------------------------------

**Q.** What is the best way to import pages from a report into a PowerPoint slide show?

**A.** Is you use the WMF export filter, PowerPoint can import the files with all of the formatting intact.

--------------------------------------------------------------------------------

**Q.** Could you please tell me how to save a report with a qrp extension instead of printing or previewing it

**A.** You would call the report's prepare method to create the report.  Then use the report's qrprinter.save method to save the file, and finally free the qrprinter object of the report.
Example:
```
    quickrep1.Prepare;
    quickrep1.qrprinter.Save('c:\report.qrp');
    quickrep1.qrprinter.Free;
    quickrep1.qrprinter := nil;
```

--------------------------------------------------------------------------------

**Q.** I am writing a printable component for QuickReport 3 (using C++ Builder3) to display a schedule. I was wondering what needs to be done to make the printable component have the ability to export to the various export filters. Currently when I try to export to any filter other than wmf it exports to a blank file.

**A.** You would need to add code in your component's Print method that checks the report's Exporting property and call the report's ExportFilter->TextOut() function with the text to be printed. All of our code is in Delphi, but you should be able to do this with BCB3. In the source code for the qrctrls.pas unit, look at the PrintLine procedure, it show how we pass the text to the export filter for our standard text components.

------------------------------------------------------------------------

**Q.** (QR3) When I add QR Filters to existing reports, I get duplicates in the file type drop down in the Save As ... dialog. How do I avoid/eliminate this?

**A.** How are you adding the filters? This can happen if you have multiple copies of a filter component, either on one form or multiple forms. If you place the filter components only on the main form, that makes it easier to prevent duplicates.

------------------------------------------------------------------------

**Q.** How do I save a report to a QRP file in code?

**A.** You would use the report's QRPrinter.Save method to save a file in the QRP format. Save can be called after a report have been generated by Preview or Prepare.

------------------------------------------------------------------------

**Q.** Is there any way to combine QRP files into a single QRP?

**A.** There is a demo project on our download page named QR3RNGD4.ZIP and it has a unit named qrqrp.pas. That unit contains a function named CombineQRP() for combining multiple QRP files ((as long as they all use the same page size and orientation)) to a single QRP file. You just pass in the new file name and a stringlist of existing QRP files, and it combines them.

------------------------------------------------------------------------

**Q.** How do I call the Quick Report 3 export filters outside of the preview?

**A.** To call a filter explicitly you would use syntax like:

```
quickrep1.ExportToFilter(TQRXLSFilter.Create('c:\report.xls'));
```

Other filters:
HTML: TQRHTMLDocumentFilter
ASCII: TQRAsciiExportFilter
CSV: TQRCommaSeparatedFilter
RTF: TQRRTFExportFilter
WMF: TQRWMFExportFilter

Q. The output from RTF export filter looks odd when loaded into a TRichEdit control. If I load it into Word 97, it looks more like the report.

A. The RTF export filter was written to the MS RTF specification, version 1.5. I am not familiar with a control named TRichTextBox, but the files generated by this filter can be read by TRichEdit. TRichEdit does not fully support the RTF command sequence and it will not display RTF files with same accuracy as MS Word. For example, TRichEdit does not support right alignment.

Q. The output from the export filters does not match the preview's layout.

A. The export filter layout is a best fit approximation. You are taking controls that can be arranged anywhere on a band and sending them to a format that is not as flexible. You can get better results for the filters by changing the layout of the fields and/or their font property. The report has a boolean property, Exporting, that will be set to true when an export filter is running. You can add code in the BeforePrint event of the report to check this property if you want to make changes that would only take affect when exporting a report. If you are using proportional spaced fonts, the layout from the ASCII export filter is going to be a poor match. You will want to use a mono spaced font like Courier New instead of Arial for the controls. You could also set the font's Pitch to fpFixed and let Windows substitute the font for you.

Q. How do I use the WMF export filter outside of the preview?

A. The WMF export filter works differently than the other filters. The other export filters render the report using the filter. The WMF filter takes the pages rendered to

the preview and saves each page as a metafile. To use this filter outside of the preview, you have to render the report first using Prepare.
Example:
```
quickrep1.Prepare;
quickrep1.qrprinter.ExportToFilter(TQRWMFExportFilter.Create('c:\report'));
quickrep1.qrprinter.Free;
quickrep1.qrprinter := nil;
```
Please note that the file named extension is picked by the Enhanced property to the export filter. EMF if it's True, WMF if it's false.

Q. When I export my report to the TXT export filter, I lose the TQRRichText fields
A. The TQRRichText, TQRDBRichText, TQRShape, TQRImage, TQRDBImage controls are not supported for the export filters (except for the WMF filter). One workaround would be to use a TQRDBText control for the RTF data and enable it (and disable the RTF control) when the report's Exporting property is set to true.

Q. I want to change the layout of the report when it is being saved with export filter, is there a way to determine when a report is being exported?
A. When an export filter is being used, the report's Exporting property will be set to true. Some of the current export filters have problems lining up columns when the column header's controls have a different alignment than the controls on the detail band. You can check the Exported property in the report's BeforePrint event and change the appearance of the controls based on that value.

Q. PrintPreview & Print work OK until I use ExportToFilter after which PrintPreview & Print do not produce output.
A. This was a known bug and was address in the 2.0j release

Q. When I try to export a previously saved report (a .QRP file), nothing happens.
A. Quickreport can only export reports when they are being generated. The .QRP saved file consists of a list of metafiles, one for each page. There is no way to take the data out of the metafile and export to another format.

Q. How do I get all of the export filters to show in the save dialog in my preview?
A. (QR2 only) Add the qrextra and qrhtml units to your report's uses clause and the filters in those units will show up at runtime.
(QR3) Just drop the export filter components on the main form of your application.

Q. How do I use the HTML export filter?
A. The export filter topics start at page 98 in the manual, under the topic "ExportFilter". The HTML filter is an add-on and you will need to add qrextra and qrhtml to your uses clause (and the QuickRep source directory will need to be on your library search path. You would call the HTML filter like this:
```
QuickRep1.ExportToFilter(TQRHTMLExportFilter.Create('file.htm'));
```

Expressions and user functions
==============================

Q. I lose the decimal points when I an expression like Orders.SubTotal*15
A. Multiplying a floating number by an integer in the expression will produce an integer. If you change the 15 to 15.0, you will get an floating point result.

Q. How can I use the SUM() expression to sum together 2 fields from two subdetail bands?
A. No, you can not do this with the QRExpre expression controls. The QRExpr component has a master property that gets set to the report or to a subdetail, you can't set the Master to multipel items. You would have to calculate the sum in code and assign the value to a QRLabel component.

Q. I am trying to write code as below to retrieve the Function Expressions from a report.

```
    for (int i = 0; i Functions->Count; i++) {
      /*fFunctions is a StringList*/
      fFunctions->Add(Rpt->Functions->);
    }
```
I was able to retrieve the function names but I cannot figure out where to store the function Expressions. How do I read a Function to obtain the function expresion?

A. Functions are not a TStringlist, they are descendant of the TStringlist, augmented to store the expression data structures. The expressions are stored as a TQREvEmbeddedFunction class object in the Objects list of the Functions class. If you look at the TQREvEnvironment.AddFunction procedure in qrexpr.pas, you can see how we store the function. That should give you enough information to be able to access the data.

In Delphi, the following code would retrieve the expression.
```
    vars....
      rpt: TQuickRep;
      TheName,
      TheExpression: string;
      func: TQREvEmbeddedFunction;
      i : integer;

    Code....
      TheName := 'foo';
      rpt.Functions.AddFunction(TheName, 'bar');
      i := rpt.Functions.IndexOf(TheName);
      if i >= 0 then begin
        func := TQREvEmbeddedFunction(rpt.Functions.Objects[i]);
        TheExpression :=  func.Expression;
      end;
```

Q. I have been trying to use a summed expression in the summary band to calculate percentages in the detail band without success. I am trying to calculate and print each customer sales as a percentage of the the total sales for the report

A. You will not be able to do that unless you have the total first. The detail band prints as it reaches each record in the dataset, the total is not known until you have reached all of the records. You could do this by using a TQuery that just returned the total and use that field in your expression.

Q. How do you use Date and Time fields with the TQRExpr component? The IF() function has the wrong result when I compare date fields.

A. Date and Time fields are handled by QuickReport as strings, the IF() function can only handle strings or numbers. There are a few ways of around this. One way would be to add a calculated field to the dataset. That field would just be the date field's AsFloat property. You could then use IF() and compare it to the double value of the date that wish to compare it to. A variation would be to use a calculated string field that would return the data as a string in the format 'YYYY-MM-DD' using the FormatDateTime function. You could then use IF() to do a string compare of the dates. You could also bypass the TQRExpr component altogether and use a TQRLabel and set it's value with it's OnPrint event.

Q. Fields that have a period in the fieldname that are placed on a report via the QuickReport Wizard results in "Unknown function".

A. This is an open issue and the workaround is: Via the Object Inspector, go into the Expression Wizard and select the field so you have "Table1.F_ADT1.F_CHARL1" instead of "[F_ADT1.F_CHARL1] ".

Q. I tried changing the expression property of a TQRExpr component in the BeforePrint event of the detail band but it did not work.

A. The Expression property of the TQRExpr and TQRGroup components is read only the beginning of the report and can not be changed while the report is running. You can use the OnPrint event to override the output of the TQRExpr component.

Q. How can we Round Off a number, like to 2 decimal places?
A. We do not have a rounding function, but this is easy to emulate. Add 0.05 to the value, then multiply the value by 100, use the INT() function to truncate the decimal point, then divide by 100.0

Q. Can I test for multiple conditions with the SUM() function?
A. You would need to wrap the expressions in parenthesis like: SUM(IF(((PayType1='C') And (PayType2='N')), tPayments.PayValue,0.0))

Q. How can I do an IF() function for a field that has single quotes around it?
A. At design time you would enter into the Object inspector something like:
IF(MyField=''SomeValueInSINGLEQuotes'', 1, 0)
In code you would syntax like QRExpr.Expression :=
'IF(MyField='#39#39'SomeValueInSINGLEQuotes'#39#39', 1, 0)';

Q. I have a report with a TQRGroup,a DetailBand and a GroupFooter band. I want to sum certain values in the GroupFooter for each Group. The problem is that it doesn't sum within the group. It just keeps increasing the values until the end of the report. I don't get the sum for each group.
A. You will need to set the ResetAfterPrint property to true for the TQRExpr control that you are using on the GroupFooter.

Q. I am trying use the SUM() function inside the IF() function to do a conditional sum, but the control just prints the expression text. My expression is IF(Table1.PUR_PRICE>40, SUM(Table1.PUR_PRICE), '').
A. IOU are missing the 3rd parameter to the IF function and all three parameters are required. Try using an blank string ('') as the 3rd parameter.
Example: SUM(IF(COPY(Table1.pos,1,1)='M',table1.Price,0.0))
This would sum the table1.Price field for the current record if the Table1.pos starts with the letter "M". If the Table1.pos field did not start with "M", that record would not be included in the SUM() function.

Q. I would like to summarize the number of times a non numeric value repeats in a table (without making a new sqlquery like "select count(xxx) where xxx = 'yyy')
A. You can embed functions in other functions. You can use the IF() function in the SUM() function to sum the number of times a value appears in the dataset. The following expression will return the number of records where the state = 'HI', SUM(IF(Customers.State='HI', 1, 0))

Q. With the TQRExpr control, the expression -3*4 evaluates to 12 instead of -12
A. This is bug in QuickReport 2 (fixed in QuickReport 3) and the work around would be to use the expression (0-3)*4, which will give the correct value.

Q. When I create a report from the Delphi menu (File/New/Report), the QRExpr control does not find all of the datasets on that report.
A. When the report is not on a form, QRExpr controls will not pick datasets that are connected to the report unless you manually add them at runtime using AllDataSets. When the report is on a form, QRExpr will find the datasets on that form automatic.

Q. I am using a TQRExpr to print the SUM of a field of a Query. But I have a problem. If the Query has no result (zero records) then instead of printing the number 0, It is printing SUM(qry.Total).
A. This is a known problem with QR2 and the work around is to use the OnPrint event of the TQRExpr control to blank out or zero out the value when the value is equal to the expression like the following example:

```
procedure TfrmReport.QRExpr1Print(sender: TObject; var Value: String);
begin
  if sender is TQRExpr then
    if Value = TQRExpr(sender).Expression then
      Value := '0.0';
end;
```

     (QR3) This has been fixed with QuickReport 3

Q. When I add lines to a QRExprMemo control at runtime, the control does not filter out
    any blank lines that may have added.
A. This control filters out blank lines when the lines are defined before the report
    starts. When you add blank lines in the BeforePrint event, we assume that you actually
    want them in the memo. The work around is to add code to the BeforePrint event so that
    you are not adding blank lines at runtime.

Q. How do you use the FORMATNUMERIC function, I can't find a help files to help me?
A. This function is a wrapper for Delphi's FormatFloat() function.

Q. Is there an expression that will permit grouping by month? The underlying database
    has a date field.
A. You have to pass in an expression that would be the month, the easiest way is to use
    a calculated database field that would be the year and the month (unless you want the
    same month from multiple years grouped together.

Q. I want to have a database field as the expression, but the table is not available to
    me at design time and adding . to the expression string at run time doesn't work.
A. To define an expression at runtime, you must define it before the report starts.
    Group bands initialize their expression at the start of the report and you can not change
    the expression while the report is running. This limitation will be removed in a future
    release.

Q. I couldn't find any information for the meaning of the "arguments" parameter in the
    RegisterQRFunction
A. The last parameter is used for the expression builder to know what
        group to put the function in and what parameters to accept.
        First is the group (1-6), followed by one character for each
        parameter.

        1NN would be in the first group (don't remember which one), with two
        numeric arguments.

        2SNB would be in the second group, three parameters (text, numeric
        and boolean

Q. Expression wont work if the field name has a space or a hyphen in it
A. The expression parser will not work with field names with spaces or hyphens in it.
    This is a limitation that we try to fix in a future release. There are a few simple
    workarounds for this. One way is to use a TQuery control and rename the field name in
    the SQL statement. If you have to use a TTable, create a calculated field based that
    equals the original.
    (QR3) With Quick Report 3, you can use fields with spaces in TQRExpr expressions if the
    field is enclosed in square brackets like '[Table1.Field 1]'.

Q. My function doesn't work I want to use:
    if (table1.field1 = '', 'Blank', table1.field1)
    to output the text "blank" when the field is blank or null
A. Change "if (" to "if(" and the function will work.

Q. I can't sum TTimeFields?
A. TTimefields get converted to strings by the expression evaluator which prevents the
    report from doing
        math operations on it. A future release will have a a function to 'convert back' to
    a float.

Q. Expressions are being evaluated from right to left
A. This will be addressed in a later release. The work around is to use parentheses
----
Q. The following expression always returns 0: SUM(IF(Query1.CartonID='SI', Query1.

```
     Caliper, 0))
```
A. Change the 0 to 0.0 and the SUM() function will work correctly.

Q. Why doesn't the expression Count(Table1.Field1) return the right value?
A. The Count function in the expression builder returns a number that increments by 1
with every call to Count. It does not behave like the SQL Count() function that counts
the variable passed to the function. If you click on Count in the expression builder you
should see "Increments for each iteration" appear under the Count label as the function's
description.

Q. How do I check the value of QRExpr control at runtime?
A. The "Value" property of a TQRExpr component is of type TQREvResult, which is defined
in qrprntr.pas. You can check "Value.Kind" to see what the datatype is. The following
table shows how to retrieve the results of the expression based on the value of "Value.
Kind"
     If Value.Kind = resInt then the results of the expression are in Value.IntResult
     If Value.Kind = resDouble then the results of the expression are in Value.DblResult
     If Value.Kind = resString then the results of the expression are in Value.StrResult
(defined as string[255])
     If Value.Kind = resBool then the results of the expression are in Value.BooResult
     If Value.Kind = resError then the expression had an error
----
Q. I use QRExpr to calculate the Average of a currency field but it shows as numerical,
not currency.
A. This is a known limitation of the QRExpr control. You can have the control display
the currency character by using the mark property and set the mask to something like '$,
###.00'. The QRExpr control's mask is the format string used by FormatFloat() and
FormatDateTime functions. Please refer to their documentation for allowable values.

Q. Why does my report crash when I use TQRExpr controls under Delphi 1? The same report
runs fine when I compile it with Delphi 2.
A. Delphi 1 uses a lot of stack space when you use nested expressions with the TQRExpr
control. This is why we suggest that you raise the stack size as high as Delphi 1 will
let you go for your project. We allocate all of our expression variables from the heap.
but Delphi 1 still uses stack space to handle the multiple function calls required to
evaluate the expressions. With Delphi 1, some expressions are bettered handled by adding
code to calculate the results instead of using the TQRExp control.

Q. I have a simple query that uses the SQL COUNT(*) and I am trying to display it in a
QRExpr component but it is not displaying that field.
A. The SQL COUNT(*) is conflicting with the QR COUNT function. You will have to alias
the column or use a QRDBText to output the field.

Q. I can't get the QRExprMemo to display more than 255 characters when I use Delphi 1.
A. The number of characters in a QRExprMemo is limited to the maximum string size. In
Delphi 1, the maximum string length is 255 characters.

Q. How can I count frequencies of the values in a dataset field?
A. You can do this with expressions like:
SUM(IF(Table1.GENDER = 'M', 1, 0)) and SUM(IF(Table1.GENDER = 'F', 1, 0))

Q. How can I get the dataset of the report to display in the QRExpression if the dataset
is on a separate form?
A. You will need to add the dataset to the report, using the report's AllDataSets
property. The expression will not work at design time, but it will work at runtime.

     Example:

     Form1 has a dataset named tbCountry with the field 'Capital' in the table.
     Form2 has a report named QuickRep1 with a qrexpr control on the summary band.

     You want qrexpr to read the capital field of the tbCountry dataset.

You would have form2 use form1 and in the report's BeforePrint event you would add the
tbcountry table to the report with the following syntax:

```
procedure TForm2.QuickRep1BeforePrint(Sender: TQuickRep;
  var PrintReport: Boolean);
begin
  with quickrep1.AllDataSets do
    if IndexOf(Form1.tbCountry) = -1 then
      Add(Form1.tbCountry);
end;
```

The QRExpr.Expression property would be set to tbcountry.capital

----

Q. I want to sum a field, but I need to ignore the highest and lowest value, can this be
done?

A. You can do this by using the expression 'SUM(Field)-MIN(Field)-MAX(Field'. Please
note that if you only have two records, the sum will be zero.

Q. What are the allowable datatypes that can be used in a TQRExpr control?

A. The allowable Delphi datatypes that can used in a TQRExpr control (or Group
expression) are longint, double, string[255], and boolean. Currency fields are stored as
double. Date and time fields are stored as string.

Frames
======

Q. How can I separate the letters from the top of the frames with a QRDBText control?

A. The current release provides no control over the relative positioning of the frame in
regards to the text. You can get finer control by using a QRShape control and place it
underneath the text control.

Q. Setting DrawBottom to true of the report's Frame property of works on preview, not
when printed.

A. The default bottom margin of a report goes beyond the printable area of many printers.
If you set the bottom margin to a greater value (try 1.0 in as an example), you should
see the bottom frame.

Q. Some lines do not appear in the preview, but they appear in the printout.

A. The report is rendered to a TMetafile object when it is sent to the preview.
Depending on the zoom value of the preview, the scaling of the TMetafile may crop out
some of the lines. If you zoom in (you may need to use a custom preview to zoom in close
enough), the lines will reappear.

Groups
======

Q. How do I print a group footer band?

A. Add a TQRBand, set it's type to groupfooter and link to rbGroupFooter. You would
then link it to TQRGroup band by the footerband property. The new band will print at the
end of the group of detail band.

Q. Is there an expression that will permit grouping by month? The underlying database
has a date field.

A. You have to pass in an expression that would be the month, the easiest way is to use
a calculated database field that would be the year and the month (unless you want the
same month from multiple years grouped together.

Q. I have a billing report. In the group-footer I take the sum of the amounts. I print
it at the summary . Now I would like to print the intermediate-results of the amounts at

the end of each page (except at the end of the last page). How can I do it?

A. You would put the TQRExpr component to handle the amounts on a page footer band. Set the QRExpr's ResetAfterPrint to true so that the total will get reset after each page. To suppress the final page footer, set the report's Options.LastPageFooter to true.

If you want to have a page footer on the last page, but want to suppress the output of the last page's total, one easy way to tell that you are on the last page is to use a summary band. It will be called before the last page footer and you can use it's BeforePrint event to set a flag to prevent the output of the final QRExpr total. If you don't need a summary band, set it's height to 0.

Q. When I have a group header for a sub-detail band, the header gets printed twice for the first record and only once for every record thereafter.

A. If you just want a group header band to print for each set of subdetails, do not use a TQRGroupband, that band is for when you want to break up the data in groups. Just set the subdetail band's Bands.HasHeader to true. This will add a band of type TQRBand and it will only print at the start of each set of subdetails. This is documented on page 5-73 of the manual under the topic "BANDS PROPERTY FOR TQRSUBDETAIL".

Q. TQRGroup does not work with an expression on a queryfield if the query component is not on the report form.

A. The dataset must be either on the form or on the report's datamodule.

Q. A new page is not generated on the GROUPHEADER if the current page number is 1 (one) and the Property NewPage is TRUE. It will work fine if this occurs on page number 2 or higher.

A. QuickReport was designed to ignore the first ForceNewPage band if that band is on the first page. To get around this, set ForceNewPage back to false and call the report's NewPage method from the BeforePrint event of that band like the following:

```
procedure TfrmGroupTest.QRGroup1BeforePrint(Sender: TQRCustomBand;
  var PrintBand: Boolean);
begin
  Quickrep1.NewPage;
end;
```

Q. How do I set a group expression to break on multiple fields?

A. Set your group band expression to 'Query1.Field1 + Query1.Field2', if they are strings. If they are not strings, convert them to strings first using the STR() function.   If that does not work, you can create a Calculated Field in your Dataset that is a combination of the fields and have the group.expression use that field.

Q. We query our data grouped by a field and is there any neat way to get the text "to be continued" to the bottom of the page if the group is several pages, i.e. how do we know before page change the last row was not the last record in the group?

A. There isn't a "neat" way to do this with the current version. You may want to add with some code to the BeforePrint event of the page footer band. You could check the next row in your dataset to see if the group changes. Just remember to leave yourself in the original row of the dataset so that you don't skip any rows.

Q. How do I get group headers to print after a page break?

A. Group bands in Quick Report 3 have a ReprintOnNewPage property to do this. With Quick Report 2, you can emulate repeating group headers through code and some duplicate bands. An example program that shows how to do this can be downloaded from our web site. Look for the file "repeats.zip".

Q. How do I create a group band at runtime?

A. Before the report starts, you can add a group by creating a control of that type and setting some of it's properties. The following code would add a group band to a report using the orders table

```
procedure TfrmCreateControls.FormCreate(Sender: TObject);
begin
```

```
      { Create the group on this form }
      QRGroup1 := TQRGroup.Create(Self); { QRGroup1 defined as TQRGroup in the form
   declarations}

      with QRGroup1 do
      begin
        { assign it to this report }
        Parent := QuickRep1;

        { assign it to the detail band }
        Master := Parent;

        { Set it's expression }
        Expression := 'CustNo';
      end;

      { Now add a text control to this band }
      with TQRDBText.Create(Self) do
      begin
        Parent := QRGroup1;
        Dataset := QuickRep1.Dataset;
        DataField := 'CustNo';
      end;
   end;
```

Q. I have several Group Bands in my report. How is it possible to change the printing
order of these bands at runtime. Eg. at case one I need to print only Group1, case two
Group2, Group 1, Group 3, case three Group 4, Group 2 etc. The order is told by end user
at runtime.
A. QuickReport uses the creation order of the group bands to set the order at runtime.
You can change the ordering of the group bands by calling the their SendToFront and
SendToBack methods.

Images and Shapes
================

Q. My images do not print consistently.
A. This can happen for a few reasons. If you are using a TQRDBImage and the images do
not always print, it may be a problem with how the BDE is handling the BLOB data.
Instead of using a TQRDBImage, use a TQRImage and a TDBImage. Assign the database bitmap
to the TDBImage (you will need to add a TDataSource to assign the field to the TDBImage).
 In the BeforePrint event of the band that contains the TQRImage, assign the TDBImage's
bitmap to the TQRImage's bitmap.
Example:
```
procedure TfrmImageTest.DetailBand1BeforePrint(Sender: TQRCustomBand;
  var PrintBand: Boolean);
begin
  qrimage1.picture.bitmap.assign(DBImage1.Picture.Bitmap);
end;
```

If you are using a TQRImage and loading the image directly into the component does not
work, try loading the image into a TBitmap and then copying the data to the TQRImage
component.
Example 1:
```
  MyBitmap.LoadFromFile(somefile);  // MyBitmap is a TBitmap that is created and freed
somewhere else
  QRImage.Picture.Bitmap.Assign(MyBitmap);
```
Example 2:
```
  MyBitmap.LoadFromFile(somefile);
  QRImage.Picture.Bitmap.Height := MyBitmap.Height;
```

```
       QRImage.Picture.Bitmap.Width := MyBitmap.Width;
       QRImage.Picture.Bitmap.Canvas.Draw(0,0, MyBitmap);
```

Q. How I do to make background shadow in alternated lines (detail) of report?
A. Place a TQRShape underneath all of the other controls on the band. Make sure the
transparent property of the text controls on top of the shape is set to true.   In the
BeforePrint event of the Band, "toggle" the Brush.Color of the TQRShape. This will not
appear at design time, but will work at runtime. Example:
```
procedure TfrmMasterDetail.QRSubDetailItemsBeforePrint(Sender: TQRCustomBand; var
PrintBand: Boolean);
begin
   { toggle the item background so that we can have alternating colors }
   { like the greenbar paper we all know and love.}
   with QRShape1.Brush do
     if Color = $00F0F0F0 then
       Color := $00E0E0E0
     else
       Color := $00F0F0F0;
end;
```

This will allow you have a color that does not use up the entire width of the band. If
you want to do the entire band, set the band's color property and leave out the TQRShape.

Q. Is there a 3rd party component vendor for QR that supports PNG images?
A. I don't know of any PNG controls for QR2. Delphi 3's Image control can be extended
to support other formats, if a vendor has provided a package that adds PNG to the
standard Delphi 3 TImage control, it should work in Quickreport 2.

Q. (Delphi 3) I am trying to use the QRImage component to print a jpg image. I noticed
that if I select a jpg image after placing a qrimage component on a quickreport, it shows
up correctly on screen. But when I then PREVIEW the report, the image is not there.
A. Did you add jpeg to your uses clause for that report?

Q. Why wont QRImage doesn't print icon files when Stretch is set to true?
A. The Stretch property has no affect on icons. This is documented in Delphi's help for
the stretch property of TImage (ancestor of QRImage)

Q. My shapes don't print correctly on bands that wrap over a page
A. Right click on QRShape and select print to back so that it get printed first
----
Q. Why do TQRShapes appear thicker on screen than when it prints
A. There is a known problem where the thickness of the Shape's lines vary between the
preview and the printer. The work around is to set the Shape.Pen.Width property to a
variable and set the value depending on whether you are printing or previewing. In the
report's BeforePrint event, you can check the value of the report's QRPrinter.Destination
property. If it's set to qrdMetafile, then it's rendering the preview. If it's set to
qrdPrinter, then it's rendering the report directly to the printer.

Q. I'm creating a report which requires a couple of vertical lines on the page. I have
added the appropriate QRShapes (shape=qrsVertLine) to the detail band. How do I continue
the vertical line on the page even when there are not enough detail records to fill the
page?
A. Try dropping a TQRShape directly on the report control (not on a band), and set it's
height to fit the printable area of the page. If you use "Send to back" on the shape,
the bands will appear on top of it. This will give you a continuos shape going down the
page. You may need to add code in the report's BeforePrint event to set the Size.height
of the QRShape to the height of the report minus the top and bottom margins.
Note: This will not work with Composite Reports.

Installing & converting from previous versions
===

Q. Where can I download the Delphi updates requied for QuickReport 3?
A. You can download the updates at http://www.borland.com/devsupport/delphi/downloads

----

Q. I am having a very frustrating time trying to import Applications designed in Delphi
3 (with QuickReport Pro 3) into Delphi 5. The problem is that so many of the QR units
fail to be accepted, the error always being that the unit was 'compiled with a different
version of . . .'. How can I fix this?
A. We have a fileset of 3.0.5 specificly compiled for Delphi 5, you can't use the
QuickReport fileset from Delphi 3. You should also verify that your project is not
pulling in any Delphi 3 directories or files.

Q. When I start Delphi an entry point not found in delphi32.exe with this error: The
procedure entry point @Qrmdsu@initialization$qqrv could not be located in the dynamic
link library Qrpt40.bpl.
A. It sounds like a conflict with a previous version. If you have not removed QR305 and
got Delphi 4 running again, do that now. If you are not familiar with how to remove
packages outside of Delphi, you can do this by deleting a registry key. The QR installer
writes an install.log file in the delphi directory. Towards the end of the file, it
lists the registry key used to register the package. If you delete that key with regedit
you should be able to restart Delphi 4.

After getting Delphi running again, remove all previous versions of QR from Delphi and
try reinstalling 305 again.

We do have the source code only version on our download page if you want to try
rebuilding the package manually.

Q. How can I install the help file?
A. There is a freeware program for installing Delphi help files named 'HelpLinker'.
HelpLinker was developed by Scoutship Software. You can download the program from
http://www.scoutship.com/helplinker.htm

Q. Where can I get a list of all of the files that were installed when I ran the
QuickReport installation program?
A. Each installer creates or updates a file named install.log in the delphi or
c++builder directory. This is a standard log file that the install programs use and will
list the files installed and registry keys that were updated.

Q. (Qr3)I just installed 3.0.5 into Delphi and I get access violations when I add a
TQREditor component to a form.
A. If you are using the French or German versions of Delphi or C++Builder, they come
with a localized copy of the qrpt40 (or qrpt50, qrpt43, depending on your version of
Delphi/C++Builder) package file. You will need to delete qrptXX.fr (or qrptXX.de) file.

Q. After installation of Quick Report 3.0.4 (Professional) for Delphi 4 on my computer,
I started to build a new project. But at compilation I encountered the following error:
QRPrev was compiled with a different version of comctrls: TToolBar
A. Have you applied Update Pack 2 (or newer) to your Delphi 4? This is required for
QuickReport as of the 3.0.4 release.

Q. I just installed QR 3 into C++Builder 3 and I can't link the project.
A. Make sure that the project is using qrpt43c as the runtime package instead of the
qrtp35 file from QR2. The QR3 installer will not modify your project files, you may have
to manually edit the package list and header files used by the project.

Q. How do I install the latest patch to QuickReport?
A. We do not use patch filesets. Each fileset that we release is the complete version
of QuickReport Pro. It is not necessary to apply other QR patches when installing an
update. With Delphi 4, we require that you have previously installed Update Pack 2 (or
newer) when installing QuickReport 3 Pro. To install QuickReport 3 Pro, you must exit
Delphi and any application that used the Delphi runtime packages. If you are using any

3rd party packages that link to QuickReport, you must remove them from the package list before installing QuickReport 3 Pro. After QuickReport 3 Pro has been installed, you can rebuild those packages to link in the updated QuickReport files (Please refer to the documentation and/or tech support for those packages when rebuilding them). After exiting Delphi, just run the QR executable. It will display the warning message about removing TeeChart and Decision Cube and then install the QuickReport 3 Pro package. You can then restart Delphi.

Q. Do you have any tools that automatically transform files from Delphi 2 and QR1.0 to Delphi 4 and QR3.0 ?

A. We do not have any tools that will do this. One way to convert from QuickReport 1 to new versions of QuickReport is to run two copies of Delphi, each one using one of the QR versions. Start each copy of Delphi with a different version of QuickReport. Load the QR1 report into the copy of Delphi running with the QR1 components and then create a new report in the other copy of Delphi (the one running the newer QuickReport) Cut and paste the components from the QR1 to the new report until you have rebuilt your report.

Q. I installed QuickReport 3 and I can't load the dclqpro package.

A. The dclqpro package is a QuickReport 2 package and can not be used with QuickReport 3. The code in dclqpro is now in the main dclrpt40 (of dclqrpt43) package.

Q. I can't install QuickReport 3 into Delphi 3. Even after I remove QuickReport 2, I still get the error "TQuickReport class already exists" when I try to add the QuickReport 3 package.

Q. I can't install Quick Report 3, it conflicts with WPTools (or any package that uses Quick Report_.

A. If you have any 3rd party packages that use QuickReport 2 (like TeeChart 3), they will implicitly load the QuickReport 2 runtime package when Delphi loads. You will need to remove that package or packages before installing QuickReport 3. After installing QuickReport 3, you can go back and rebuild the packages that used QuickReport 2. You will need to edit the .dpk file for the package and replace any reference of qrp30 to qrpt43.

1. Remove the package or packages that use QuickReport 2 from the package list. You must completely remove the package from the list, disabling it will not be enough.
2. Remove the QuickReport 2 packages, DCLQRT30.DPL and DCLQRPRO.DPL
3. Install Quick Report 3
4. Locate and open the package file (.dpk) for the each package. The name and location of the file will vary. Some of then may be in the Delphi lib directory, some vendors place them in a separate directory. If you click on the package in the package list dialog, it should display the name of the directory where the package file is. The .dpk file should be in the same directory. You can also use the Windows File Find to locate all of the .dpk files on you machine.
5. Look for any reference to qrpt30 in the requires list in the .dpk file. This is the Quick Report 2 file. Remove it and recompile the package. It should find the QuickReport 3 file, qrpt40 (qprt43 for Delphi 3). If it doesn't find it or tries to use qrpt30, you will need to manually edit that line and add the QuickReport 3 file.
6. Rebuild the package.

In your Delphi bin directory, you can execute the following DOS command line to get a list of packages that use QuickReport 2
for %x in (*.dpl;*.bpl) do find /I /C "qrpt3" %x

This will list the name of each package and the number of times that the text qrpt3 occurs in that file. If you have 3rd party packages that are installed to a different directory, you can run that command there.

Q. My custom preview doesn't work the way it did with QR1

A. The preview must be called with Show instead of ShowModal. This a change from the QuickReport 1 behavior, but is required for QuickReport 2.

Q. In D2 and QR 1.1 I used "TQRCustomControl" how can I get it to work in D3 and QR2.0 ?

A. This was replaced in QuickReport 2 by the TQRPrintable class. This is documented in the manual. The example control detailed in the manual had a couple of bugs, a better example control can be downloaded from our web page under the name "qrcb.zip".

Q. We have just installed QR20K instead of QR20Kbeta (working with D3 +Language Pack). We now notice that the Quick Report Units are not translated into Dutch as it used to be with QR20Kbeta.

A. You will need to uninstall and then re-install the Language Pack.

Q. I am porting a report from QR1 to QR2 and the FromPage and ToPage properties are missing.

A. In QuickReport 2 they are named FirstPage and LastPage.

Q. I keep getting the error: "Can't load package (the path & such)" A device attached to the system is not functioning"

A. Delete the file qrpt30.dpl from the delphi 3.0\bin directory.

Q. Recently I upgraded Delphi 3 to Delphi 3.02. I now get an error trying to install QuickReport 2 Pro package. Error Message comes back as: Can't load package c:\quickrep\delphi3\bin\dclqpro.dpl. A device attached to the system is not functioning.

A. When upgrading Delphi 3 to the new release, you must reinstall QuickReport 2 and follow all of the original instructions. This error is happening because you did not delete all copies of qrpt30.dpl from your system BEFORE installing QR Pro.

Q. I recently received the latest copy of Delphi v3, build number 5.83. Whenever I load Delphi, an error message appears:
     PROCEDURE ENTRY POINT QREXTRA.TQREDITOR AT 7DBEC950 COULD NOT
     BE LOCATED IN DYNAMIC LINK LIBRARY QRPT30.DPL

A. The Delphi 3.01 maintenance release comes with the standard version of QuickReport 2.0g and it does not come with the QREditor component. You will need to reinstall your current QuickReport Pro over the one that comes with Delphi 3.01.

Q. I am trying to convert a Report from version 1.x to 2.0i, in Delphi 3. In version 1.x it was possible to have several detailbands in the same report, and then enabling the detailbands as they where needed, thus having different bands visible, depending on a field in the dataset.

A. QuickReport 2 does not support multiple detail, page header, or title bands, but each band can have a child band and you can control the output of each band individually at runtime. Please see the manual topics on ChildBands for more information.

Q. The TQRGroup property GroupData was in Version 1 does not exist in QuickReport 2. Is there a replacement?

A. The QuickReport 2 does not have a groupdata property, it has an expression property for determining group breaks. Setting this property is documented on page 2-41 of the manual.

Q. [Delphi 3] How can I restore a German layout during runtime in the Preview ?

A. The German resource files supplied with Delphi 3 does not work with current release of QuickReport Pro. We will post a revised German resource file as we can get it updated.

Q. I updated to QuickReport 2 with C++ Builder and I can't compile my existing QR1 reports.

A. In addition to following Appendix C in the manual, C++ Builder users will have to remove the following line from their source code:
     #include
     This file is part of QuickReport 1 and will cause conflicts when compiling with QuickReport 2

Q. The QRGroup in version 1.0 had a field called DataField, in the 2.0 version this field doesn't exist. In the unit that called the report I would set the contents of this

field. How do I do it now?

A. The QuickReport 2 QRGroup has an expression field that works like the expression property of a QRExpr component. This is documented on page 5-102 of the manual.

Q. I cannot run the QuickReport 2 demo programs in Delphi 1.

A. We apologize for that, but that error will not stop Delphi 1 from compiling the QR2demo. If you select "Ignore All" when errors pops up when loading a form, the project will run under Delphi 1. Just load each form and save it back out again. The errors will only appear once.

Q. I could not find the Linkband feature that QR1 has.

A. This is was not in Quick Report 2, but returned in Quick Report 3

Q. When compiling and starting the qr2demo.dpr the following error occurs: Error while reading GrpListForm.Font.Charset. Property does not exist !

A. The version of Delphi that you used did not support that property, you should be able to load the form by selecting "Ignore All" on the error dialog.

Q. In QR1, we had ShowDialog Property to Show PrintSetup Dialog before Print, but in QR2 does not have this. How can I do this function?

A. If you call the Report's PrinterSetup method, this will set the printer settings for the report before you run it. You could do it like:

```
with frmReport do
begin
  QuickRep1.PrinterSetup;
  QuickRep1.Preview;
end;
```

Q. I installed QuickReport Professional version 2.0 in my Delphi 3.0, all went well and the two new components were installed. When I try to run the example project for the QREditor Component, EDITOR.DPR, I get a error message in line 41 of the QREDFOR unit that says: Undeclared identifier: TQREditor.

A. Please make sure that you have enabled the dclqlpro.dpl package under project options. This package is labeled "Delphi QuickReport Professional Components" and it should be in your "...\Delphi 3\bin" directory.

Q. I just installed QuickReport 2 Pro, but I can't find the editor component

A. This control gets installed when you install QuickReport, it's usually one of the rightmost components on the qreport pallet.

Q. After I install QuickReport Pro into Delphi 3, I only see the QREditor and QExprMemo components

A. Make sure that you have selected the dclqrt30.dpl package

Q. My QuickReport right-click menus have blank lines (German release of Delphi 3)

A. In the "bin" directory of delphi, delete the file "dclqrt30.DE". In the windows system directory and in delphi 3.0\bin, delete "qrpt30.DE"
Borland is using "FR" extension for the French release. So you need to delete all copies of "dclqrt30.FR" and "qrpt30.FR" before installing QR2 Professional.

Q. I keep getting CGI time outs when I try to download from your web site.

A. We have had some technical difficulties on our server and with our ISP. If you get an error, please
again later.

Q. I have upgraded to version 2.0 from 1.1. Since then I can't load an already saved report.

A. The saved reports from QuickReport 1 are not compatible with QuickReport 2

Q. What happened to the thumbnail feature of QR1?

A. Thumbnails are not supported in QuickReport 2.0.

```
----------------------------------------------------------------------------
```
Q. I tried to download a file from your web site but I get the 'Document contains no
data' message.
A. The maximum number of users that can access our web site may have been reached.
Please wait a few minutes and try again.
```
----------------------------------------------------------------------------
```
Q. Every time I try to download the new release of QR, I receive the message:
Impossible to open http://www.qusoft.no/scripts/filelist/filelist.exe?DL.
A. What program are you using to download QuickReport? If you are using Microsoft
Internet Explorer 4.0, we have received reports that this program can not download from
many web sites, including our own. MS IE 3.0x and Netscape have no problems downloading
from our site.
```
----------------------------------------------------------------------------
```
Q. How can I tell which version of QuickReport is installed in Delphi?
A. When you right-click on the QuickReport component, the version is displayed as the
first line of the pop-up menu.
```
----------------------------------------------------------------------------
```
Q. But what is that TQRExprMemo? I can't find this component....
A. This component is in the qrbonus unit included with Quick Report 2. You'll need to
install that unit to get that control. Quick Report 3 Pro does not have a qrbonus file
and it installs TQRExprMemo when you install the package.
```
----------------------------------------------------------------------------
```
Q. I have removed QuickReport 2 Pro from the package list but how do I reregister it?
A. That means that you will need to add that package back into Delphi 3.
Select Component->Install Packages
Press the Add button in the "Design packages" panel.
Select the bin directory in your Delphi 3 directory
Select the dclqrt30.dpl and press the Open button
Repeat for the dclqrpro.dpl package.
Finally, press "OK" in the "Project Options" window.

If this does not work, I would try reinstalling the QuickReport all over again, making
sure that you follow the instructions in the readme.txt file without missing a step.
```
----------------------------------------------------------------------------
```

Master/Detail reports
```
===================
```

Q. How do you do multiple subdetail bands at the same level?
A. You would use multiple subdetail bands, one for each child table. The master property
of each subdetail would be set to the report.
```
----------------------------------------------------------------------------
```
Q. Is there any way to print the set of subdetail bands before the detail band?
A. Set the subdetail band's PrintBefore property to true and it will print before the
detail band.
```
----------------------------------------------------------------------------
```
Q. My master/detail reports do not print any of the detail records.
A. There are a few things to check. Make sure that the subdetail's dataset property is
set to the correct dataset. Make sure the subdetail band's dataset (the detail) is
linked to the dataset of the report (the master). With TTables, this is done through the
MasterSource and MasterFields properties. With the TQuery component, you would have set
Params properties. Also check to see if you are setting the DisableControls property of
the master dataset, this will disable master/detail relationships.
```
----------------------------------------------------------------------------
```
Q. I would like to know if it is possible to include subreports into reports like
Microsoft Access.
A. QuickReport 2 has a similar feature with the TQRSubDetail band. This is documented
in the manual and help files. Additional information can be found in this section of the
Knowledge Base. A Master/detail tutorial project is available on our download page.
(QR3) The QR3DEMO project on our download page includes a couple of master/detail
reports.
```
----------------------------------------------------------------------------
```

Q. How do I insert a new QRsubdetail band in between two existing subdetail bands? I have a very long report and when I insert a new band at the end and use the "move band up" option on the pop-up menu, it seems to really mess the report up.

A. QuickReport uses the creation order of the group bands to set the order at runtime. You can change the ordering of the group bands by calling the their SendToFront and SendToBack methods.

Q. How do I create a QRSubDetail band at runtime?

A. The following code creates a subdetail band and adds a QRDBText control to it:

```
SubBand := TQRSubDetail.Create(self);
MyText := TQRDBText.Create(self);
with SubBand do
begin
  Height := 20;
  Parent := QuickRep1;
  Master := QuickRep1;
  Dataset := tbOrders;
end;
with MyText do
begin
  Top := 0;
  Left := 10;
  Parent := SubBand;
  Height := 17;
  Dataset := tbOrders;
  DataField := 'OrderNo';
end;
```

Q. I could not get the SUM() expression to work on subdetail bands.

A. Make sure that you have Master property of the QRExpr control set to the SubDetail band.

Q. I have a two level report where I on the primary level tries to cancel the output for both levels by setting the printband property to false for some of the primary records. Why is the secondary level printed anyway? How can I avoid this?

A. The PrintBand feature was designed to work independent of any other band. In this case, one work around would be to set the detail band's tag property to 1 when print and 0 when you do not print. When you get to the subdetail, set it's PrintBand to true only when the detailband's tag property is greater than 0

Q. I want to make a report with 2 subdetails. The first subdetail works fine, but the second I need that it has 2 or 3 columns but I don't know how can I make that a subdetail can have 3 columns and the other sections has only one column.

A. You can not do this with QuickReport at this time. The number of columns applies to all detail and subdetail bands. One work around is to put three sets of TQRLabels on your second subdetail band and manually handle the columns. In the BeforePrint event of the band, you would populate the first set of QRLabels. You would then call the dataset's Next method (if not EOF) and populate the 2nd set of QRLabels. If not EOF, you would do one more time for the 3rd set of labels.

Misc
====

Q. How can I get the length of some text before I print the band?

A. he report object has TextWidth() and TextHeight() functions that you can call from the OnNeedData event. Just pass in the font to use and the text to measure.

Q. The recordcount is very slow in Delphi if there is OnFilterRecord event connected because all the dataset will be scanned to return the number of records. How can I speed that up?

A. Using the OnFilterRecord event is not very efficient when used with QuickReport. Not

only is it slow with the preview, but printing from the preview would cause the
filterevent to hit for every record again. It would be faster to use a TQuery component
and filter the data with the SQL statement. If that is not possible, create a temporary
table and populate it with the data from the filtered table and have QuickReport use the
temporary table. It would preview and print much faster than a table that uses a filter.

Q. If I change the size-property in the Objectinspector, the size has the Unit in MM. If
I change the size in the BeforePrínt-Event the Unit seems 1/10 MM, so I must multiply my
Value's by 10. Is this an error?

A. At runtime, the report switches to native units, which are in 1/10 mm. We switch the
units to native so we can be as precise as possible.

Q. Is there any difference between having a report on a form or by itself?

A. We have found that porting reports from one version of Delphi or C++Builder to
another to be very problematic if the report is not on a form. Having a report on a form
is more flexible because you can use the form's Create/Destroy events to create and free
accessory datastructures.

Q. What files are needed to deploy applications using QuickReport?

A. If you are using runtime package, you need to include the QuickReport (example:
qrpt40.bpl) package with the other runtime packages, otherwise no additional files are
needed specifically for QuickReport.

Q. I get access violations with QuickReport 3 when I call the preview repeatedly

A. This is an open issue that we are still working on. The work around is to call
Application.ProcessMessages either before or after each call to Preview. This will allow
each preview to close down properly before the next one starts.

Q. My reports do not print when they are run under NT's Scheduler (AT command) or as a
service (TServiceApplication).

A. From Microsoft's Knowledge base article Q152451 (http://support.microsoft.
com/support/kb/articles/Q152/4/51.asp) : Printing fails because no default print device
is defined for the service account. This article has a lengthy work around listed.

Q. I get an access violation when I close the report's dataset in the report's
AfterPreview event.

A. You can not close (or free) the report or it's dataset in this event. You would do
that type of code after the call to Preview returns.

Q. Is it possible to have a QR DBText,QRLabel, or QRSubdetail with an OnClick event?
When I'm previewing a report I would like to Click on something (band,field,label, etc)
to launch another report.

A. This functionality does not exist in QuickReport 3, but this is planned for
QuickReport 5 due out later this year.

Q. How do I create crosstab or pivot reports with QuickReport?

A. QuickReport does not have crosstab (aka pivot table) support built in, but you can
create reports with some work. We have example reports on our download page that show
two methods of writing a crosstab report. The crosstab.zip file contains a crosstab
report built using an array. The CUBE_RPT.ZIP file contains a report that prints the
data displayed in a Decision Cube.

Q. My report crashes under Windows 2000 and/or Windows NT

A. In qrprntr.pas, there is a function named TempFileName and it is probably not
allocating enough characters for the path to the Windows temp directory. This has been
addressed for QR 3.0.5. For QR2, you can replace the function with the following code:
```
function TempFilename : string;
var
   AName,
   ADir : array[0..255] of char;
begin
   GetTempPath(255, adir);
```

```
        GetTempFilename(aDir, PChar('QRP'), 0, aName);
        result := StrPas(aName);
      end;
```

Q. My customer's PC is set to use "Large Fonts" for the display font size. This changes
   the layout and size of my report controls.
A. Delphi will scale the components if you have the form's Scaling property set to True.
    With QuickReport, you should always set this property to false.

Q. What is the most precise way to set the position or size of a QuickReport component
   on a band?
A. If you set the report units to Native, the component's Size properties (Size.Length,
   Size.Left, etc) will be measured in 1/10 of a mm. When the report runs, we switch the
   units to native so we can be as precise as possible.

Q. I want to print my reports to Adobe Acrobat PDF files. Is there any way to bypass
   the file dialog box and pass in a file name to save the PDF file as?
A. Adobe has a technical document that explains how to do this at http://www.adobe.
   com/supportservice/custsupport/SOLUTIONS/10a6a.htm

Q. I have defined a message that I use to terminate my application. Whenever I run the
   Quick Report 3 preview, it calls that message.
A. Quick Report 2 and 3 define a small set of messages in the qrprntr unit. If your
   message number overlaps that list, it will cause a conflict.

Q. I am trying to use the new Euro character. It shows up in the preview, but it prints
   as a block
A. Your printer driver may need to be updated. Microsoft has detailed information on
   this at http://www.microsoft.com/windows/euro.asp

Q. I am writing my own control for QuickReport, how I do convert my units so that
   control is the correct size for the preview and the printout?
A. You would use the qrprinter's XPos() and YPos() functions to convert absolute
   measurements in 0.1mm units to the actual device coordinates. In the TQRShape.Print
   method in qrctrls.pas, there are a few examples of how we use XPos() and YPos() to handle
   the scaling for the drawing of shapes.

Q. I am printing the report in duplex and I want every other page to only print some
   static text.
A. One way to do this would be to use a ColumnHeader band and use the BeforePrint and
   AfterPrint events of that band to control the printing. If you are currently using a
   ColumnHeader band, add a child band to the ColumnHeader and move your existing Column
   Header controls to the child band.

   In the BeforePrint event of the band, set it so it only prints on even numbered pages.

   Example:
```
procedure TfrmMDDuplex.ColumnHeaderBand1BeforePrint(Sender: TQRCustomBand;
  var PrintBand: Boolean);
begin
  // Print only on the even pages
  PrintBand := (QuickRep1.PageNumber > 1) and ((QuickRep1.PageNumber mod 2) = 0);
end;
```

   In the AfterPrint event, force a new page when the column header band has been printed.

   Example:
```
procedure TfrmMDDuplex.ColumnHeaderBand1AfterPrint(Sender: TQRCustomBand;
  BandPrinted: Boolean);
begin
  // If we printed the band, force a new page
  if BandPrinted then QuickRep1.NewPage;
```

```
    end;
```

Q. I am trying to reset the page number for every group band. How can I do that ?
A. This is not supported by the QRSysData control. You will have to track the page
number manually and assign the value to a TQRLabel.

Q. Does Quickreport support BDE alternatives such as ODBC98?
A. As long as the 3rd party package supplies a descendant TDataset control it should
work. I use OBDCExpress and their TOEDataset control works just fine with QuickReport 2
and 3. The general rule of thumb is that if the regular Delphi data aware controls work
with your 3rd party TDataset, then QuickReport will work too. The release of QR3 bundled
with Delphi 4 would not work with non thread safe database drivers (like SQL Links or
Opus), but this was addressed in the 3.0.1 release.

Q. My report uses tables on a datamodule and even when my report form is using the
datamodule, I can't get the tables or fields to show up.
A. Make sure that the datamodule is loaded when you are setting the fields at design
time.

Q. I use the following procedure to create forms at run time:
```
procedure TfmMainForm.ShowModalForm(FormClass: TFormClass);
begin
  Screen.Cursor := crHourGlass;
  with FormClass.Create(Application) do
  try
    ShowModal;
  finally
    Free;
  end;
  Screen.Cursor := crDefault;
end;
Usage: ShowModalForm(TfmSpecialForm), ShowModalForm(TfmOtherForm);
```

I need a similar routine to create reports.
A. The FormClass is specific to forms and you can not do the same thing with the report
class. Put the report on the form and use the form's FormShow event to call the report's
preview.

Q. Is there a way to reset the page number based on a group header? This would be
useful when printing invoices.
A. Instead of using a TQRSysdata control, use a TQRLabel and manually track the page
number. You can increment and reset that value in your code based on the events that you
select. Then in the footer band, set that TQRLabel's Caption to the string value of the
page number.

Q. Is it possible, to use the MS Intellimouse's wheel inside the preview of quickreport?
A. This should be handled by the OS or by the mouse driver. With Win98, the mouse wheel
support is in the OS, with Win95 you can enable the wheel with the Intellimouse 2.2
driver from MS. I have tested the preview with Intellimouse 2.2 under Win95 and the
preview could be scrolled by the wheel.

Q. What's the difference between this file and QR2FAQ.TXT?
A. QR2FAQ.TXT was intended to list the current release notes along with some common
questions. This file is basically the most common questions (and some uncommon ones)
that the users have sent in.

Q. When I set the height of the report, it keeps going back to the default value, is
this a bug?
A. The height value of the report is derived from the page size. If you manually set
this value, it will snap back to the calculated value.

Q. It is difficult to manage reports with many bands. Is there a better way to create

complex reports ?

A. When I have a single report with many bands, I set the height property of the bands that I am not working on to a small value to shrink them out of the way at design time. I assign the actual height to the band's tag property and at runtime, I just copy the tag to the height property to expand the band back out.

Q. I want to print reports with text and pictures. Each of the pictures (two in a row) shall have a caption. Now it sometimes happens that the caption is printed on the first page, but the pictures on the next page. How can I keep that together?

A. Right-click on the image controls and select "send to back". This put the images at the top of the creation order on the band and they will be printed first, forcing a page break if needed.

Q. I want a 1.5" top margin and 0.5" bottom margin on odd numbered pages and a 0.5" top margin and 1.5" bottom margin on even pages.

A. You can't change the margins while the report is running. One work around would be use Childbands on the page header and page footer bands and selectively print the Childbands on every other page. First set the top and bottom margins to 0.5".

For the footer band, you add a blank child band of 1" in height. In that band's BeforePrint event, you would set PrintBand to true only on even numbered pages. This will give the appearance of increasing the bottom margin by 1" on the even number pages.

For the Headerband, you would do almost the same thing. You add a child band and move all of the header information from the actual page header band to the childband. You then set the height of the pageheader band to 1" and in it's BeforePrint event, you would set PrintBand to true only on odd numbered pages. This will give the appearance of increasing the top margin by 1" on the odd number pages.

Q. How can I set the contents of the page header based on the first subdetail band that prints on that page?

A. You could do this by using Childbands on the page header. Use group footer bands (if you don't actually need one, set their height to 0 before the report starts) and in the BeforePrint event of the group footer, set a global variable to a value that would represent the next subdetail band. When the it comes time to output the child bands on the pageheader, you would set their PrintBand variable in their BeforePrint event based on the value of that global variable. Since the variable is being updated when a subdetail is finished, if you hit the page header that means that there is more data. You would not want to increment the value by 1 each time, that would get out of synch when a subdetail band did not have any data. Remember to initialize the global variable in the report's BeforePrint event.

Q. All of my fields come out blank.

A. Did you set the dataset property of the report to an active dataset?

Q. An error appears when we set the "Orientation" in the "Page" property to "poLandscape" and the "PaperSize" property to "Default". If we now call the Preview, the following error message appears on the screen : "Error on floating point operation".

A. There is a known problem with QR2 if you change the orientation at runtime when the paper size is set to Default or Custom. This will be addressed in a future release. One work around would be to use the following code:

```
with QuickRep1 do
begin
  {Get the current papersize from the default printer and set the report to use it}
  with TQRPrinter.Create do
  begin
    Printerindex := -1;
    QuickRep1.Page.PaperSize := PaperSize;
    Free;
  end;
  Page.Orientation := poLandscape;
```

```
      Preview;
    end;
```

Q. When I use the Apollo driver to access a Foxpro table and I can not preview reports that use QRDBText controls with MEMO fields.
A. It has been reported to use that if you have the Apollo driver configured so that the BDE can also be used, you can get this problem. Setting the Apollo driver so that it's the only driver has been reported to fix this problem.

Q. Every time I preview a report, I lose memory.
A. There are a few things that could cause this. Older versions of QuickReport did have some memory leaks, you should be using version 2.0J or newer. If you are using a custom preview, make sure that you are freeing the form in the preview form's OnClose event. If you set the close action to caFree, the form will not be actually freed until the application has terminated.
We have had many reports of cumulative memory losses when using HP Deskjet drivers. This is a problem with the printer driver, not with Quick Report. If you are using one of these drivers, you should get the latest driver for your printer from HP's web site (http://www.hp.com/cposupport/jsnav/prhome.html). Switching the printer driver to another printer (make sure it's a very different kind of printer) is an easy to test if your printer driver is causing the problem.

Q. I have two forms, Form1 contains a TTable, Form2 contains a TQuickRep. Form2 includes Form1 in its uses clause. I place a TQRExpr on the report, and open up the Expression property editor by clicking ellipsis. The table in Form1 cannot be viewed/selected in this editor.
A. You will need to use the report's AllDataSets property to add datasets from other forms. This is documented in the manual under the "AllDatatSets" topic. Please note that you should use the AllDataSets's Add method in the report's BeforePrint event.

Q. Is there any way to perform "Hide Duplicates" for some repeated data item in a report?
A. You would have to store the previous field value in a variable and compare the current field against it. You would reset the variable in the report's BeforePrint event and compare the variable against the current dataset field in the control's OnPrint event.

Example:
  LastVar is defined as string the form's public section

```
procedure TfrmSub2.QuickRep1BeforePrint(Sender: TQuickRep;
  var PrintReport: Boolean);
begin
  { Clear our variable }
  LastVar := '';
end;

procedure TfrmSub2.QRDBText5Print(sender: TObject; var Value: string);
begin
  {
  If this field is same as the last one, then we clear it. If it's new
    we set our variable to that field and let this one print
  }
  if Value = LastVar then
    Value := ''
  else
    LastVar := Value;
end;
```

Q. Using QR2 and trying to call addprintable in the beforeprint event of a band causes a GPF (or an Access Violation). Is this not allowed for some reason?

A. You can only call AddPrintable or otherwise add a control to a report band before you start the report. QuickReport needs to know about all printable controls before it starts the report.

Q. If I print a invoice with two lines at the bottom of a page, I have this problem. The pagefooter is necessary because the lines of Subdetail prints at bottom of the page. The first page is Ok. On the second page, the last page of invoice, in GroupfooterBand1Beforeprint I have
   QRFooterband.enabled := false;
   QuickRep1.ResetPageFooterSize ;
The pagefooter doesn't print, but Groupfooterband does not align to bottom.

A. If you call this code from the group footer's BeforePrint event, it is too late, it's print position has already been set. What will work is if you that code in the PageHeader's BeforePrint event. If you are not using a PageHeader band, add an empty one to do this code and then set PrintBand to false to suppress the output of the PageHeader.

Q. Why does QuickReport change my detailband's Size.Height property from 33.0 to 33.07 after I preview a report?

A. Try setting the report's SnapToGrid property to false, that should keep the band from resizing. The Delphi IDE will also round certain values, if you set the value to a slightly smaller value, it should round up to the correct value. If the rounding error is really throwing your report off, you can always set the value at runtime and it will not get rounded.

Q. How can I convert from pixels to the measurement unit used by the QRPrinter object to be able to print to the screen or printer?

A. QRPrinter.XSize(aNumber * ParentReport.TextWidth(Font,'W')) should do the trick.

Q. My shapes print out thinner than they appear in the preview

A. This is a known issue that we are researching. A user sent in the following work around: I can get the thick line by changing then shape to qrsrectangle with a width of 2 and change the brush color to clblack.

Q. In my report I want to print a blank line every between every 5 lines with data, to make it easier to read. How can I do that?

A. On every 5th record, double the height of the detail band in the BeforePrint event. In the AfterPrint event, reset it back to normal.

Q. How can I make a row wider than 1 page.

A. This is not currently supported. One alternative would be to use multiple subdetail bands and run through the data set a couple of times, for each set of columns. Let say that you have 20 columns and only 10 will fit on the width of a page. Leave out the detail band and set PrintIfEmpty to true. Set each subdetail band to the same dataset and put different columns each. Each subdetail will print all of the records but with different columns. You will need to call the dataset's first method after each subdetail set has been executed.

Q. Can you tell me how I can view the non-continuous rows in a DBGRid by using QuickReport? I set dgMultiSelect from TDBGrid to True, and I select some records in non-continuous order, then ...?

A. You'll need to use the QuickReport OnNeedData event (it's in the manual) to pull data from a DBGrid. In the OnNeedData event, try the following code:
   MoreData := DBGrid.SelectedRows.CurrentRowSelected;

   Another method would be populate a temporary table with the selected rows and have the report work with the temporary table.

Q. How can I put a blank page in front of a report.

A. Put a blank title band on the report and call the report's NewPage method in the title band's AfterPrint event.

Q. How do I print a text file as a report?

A. There are several ways to do this. The qrprntr example project in the
\quickrep\demos\qrprntr directory prints a text file using the TQRPrintJob class. You
could use a single detailband and read the text file into a QRMemo, just make sure to set
PrintIfEmpty to true. Or you could use the OnNeedData event and read the file line by
line and set a qrlabel.caption on the detail band to the current line.

Q. How do I change the Delphi help file to be able to search in the new QuickReport
Help?

A. You need to use Borland's Help file installer (helpinst.exe) add 3rd party help files
(such as QuSoft's) to your system. Please see your Delphi documentation for information
on the usage of the Help file installer

Q. I am having trouble with the QRChart control.

A. This control is a QuickReport compatible component written by Tee-Mach. Please
contact them at http://www.teemach.com/ for all QRCHart support questions.

Q. I'm having trouble placing controls at precise locations when the I have the report
set to 50% zoom

A. You should keep the zoom value at 100% when adding controls to a form, otherwise you
will not be able to have precise control over the placement of the controls.

Q. What is the difference between the global QRPrinter, the preview's qrprinter, and the
report's, qrprinter?

A. Each report has it's own QRPrinter object. There is a global QRPrinter object that
can be used outside of the QuickRep object. Each QRPrinter is a distinct object.
The Preview's QRPrinter object is just a pointer to the QRPrinter of the report using
that preview. When you reference the preview's qrprinter, you actually referencing the
qrprinter object of the report currently being previewed.

Q. How do I print out text rotated at an angle?

A. BitSoft Development, L.L.C, has shareware control called QrRotateLabel and you can
download it from http://www.bitsoft.com
Another control can be found on the Delphi Super Page (http://sunsite.icm.edu.pl/delphi/)

Q. How can I to begin a report (QR) with current record and then continue from that
record?

A. QuickReport starts with the first record of the dataset, you will need to have the
dataset return a set of records starting with the one that you want to start with. If
using the TQuery, use the WHERE clause of it's SQL property to specify the starting
record. With TTable, you can use it's filter properties (Delphi 2 or higher).
Another way would be to use the OnNeedData event to navigate through the dataset, this
would work, but would require more code than limiting the dataset through their own
properties

QuickReport 2 really doesn't have a direct way of filtering by record count. One thing
that you could do is to use the BeforePrint event of the detail band and set the
PrintBand boolean to true for the records that you want to print. If you add two global
integers to the report form like "FirstRec" and "LastRec", you could control it that way.
 I would initialize them to 0 and only check them when they were greater than 0 like the
following:

```
procedure TfrmQR.DetailBand1BeforePrint(Sender: TQRCustomBand;
  var PrintBand: Boolean);
begin
  with frmQR do
  begin
    if FirstRec > 0 then
      PrintBand := QuickRep1.RecordCount >= FirstRec;
    if PrintBand then
      if LastRec > 0 then
        PrintBand := QuickRep1.RecordCount QRPrinter, is it possible to obtain a pointer
to the QuickRep that is being previewed/printed?
```

A. With QuickReport 3, the qrprinter.Master property is a pointer back to the report that generated the report. This property will be nil if you load a saved report. The QR3RNGD4.ZIP demo on our download shows one way how to use this property.

Q. I create my reports using this method:
    QuickReport.Prepare;
    QuickReport.QRPrinter.Preview ;
    QuickReport.QRPrinter.Free;
    QuickReport.QRPrinter := nil;
   Now the navigation buttons in the print preview do not work.

A. When used with Prepare, the Preview method returns immediately. This code would have freed the data being used by the preview. The Free and Nil lines should be removed.   If you want the code to wait until after the preview has executed, just put a wait loop that waits until the qrprinter has been freed:
   Example:
     repeat
       Application.ProcessMessages
     until QuickRep1.QRPrinter = nil;

Q. In Quick Report 3, Composite Reports do not have an "OnPreview" event. Is there a was to use TQRPreview with Composite Reports?

A. The OnPreview event was left in for compatibility with Quick Report 2. With Quick Report 3, it is very easy to register a custom preview as the default preview for all reports. There are detailed examples of how to do this in the QR3MDID4.ZIP and QR3RNGD4. ZIP demo projects on our download page.
   Example code from the demos..
   type
   // To have a custom preview be used as the default preview,
   // you first define an interface class. You will provide two
   // functions for this class, Show, and ShowModal.
   // don't forget to add qrprntr to the uses clause of this unit.
     TQRSimplePreviewInterface = class(TQRPreviewInterface)
     public
       function Show(AQRPrinter : TQRPrinter) : TWinControl; override;
       function ShowModal(AQRPrinter : TQRPrinter): TWinControl; override;
     end;
   implementation
   function TQRSimplePreviewInterface.Show(AQRPrinter : TQRPrinter) : TWinControl;
   begin
     Result := TPreviewForm.CreatePreview(Application, AQRPrinter);
     TPreviewForm(Result).Show;
   end;

   function TQRSimplePreviewInterface.ShowModal(AQRPrinter : TQRPrinter) : TWinControl;
   begin
     Result := TPreviewForm.CreatePreview(Application, AQRPrinter);
     TPreviewForm(Result).ShowModal;
   end;

   To specify this preview as the default, you would call the RegisterPreviewClass with the type of preview to register:

   RegisterPreviewClass(TQRSimplePreviewInterface);

   If you are using custom previews designed with Quick Report 2, there were changes made to how the preview's FormClose event works. Please see the standard preview's FormClose code. If you use the Quick Report 2 Preview's FormClose code, it will not free the qrprntr object created by the report.

Q. Is there a way to close any open preview forms through code?

A. You can loop through the list of forms and find each preview form by the class name and then close it.

```
    Example:
      for nIdx := (Screen.FormCount - 1) downto 0 do
        with Screen.Forms[nIdx] do
          if ClassName = 'TQRStandardPreview' then    mpBusy do
        Application.HandleMessage;

      while QuickRep1.Available = False do
        Application.HandleMessage;

      Free;
    end;
```

Q. We have an application, that prints a form developed in QR 2.0i. During development
we used a LEXMARK printer an everything worked fine. But our customer have another
printer a Kyocera, on that printer the print doesn't work.

A. One thing to look at is how complicated your form is and how much memory is in each
printer. QuickReport renders each page to the printer canvas supplied by the printer
driver. If the printer resolution is set too high and it doesn't have enough ram to
render the entire page, you will get garbled or missing output, depending on the printer
and/or driver. One way to verify that this is the problem would be to lower the
printer's resolution through it's driver and then try to print the report.

Q. I'm trying to write a report that gets printed to the windows generic text-only
printer driver. Some lines move around when it is actually printed. Do you have any
ideas?

A. Try setting the report's font to "Courier New" at size 10. Then set the height of
the band to 16 and if that cleans up the output. To save paper while testing this, set
the printer driver's destination to "FILE:"

Q. How can I send control chars to the printer with Quickreport?

A. QuickReport uses the Windows printer driver GDI calls to output data, it does not
support sending escape codes directly to the printer. You could use the ASCII text
export filter to save the report as text. You would then insert your printer escape
sequences into that file and then copy that file to printer port.

Q. I can't set the printer at runtime, I get an exception if I use the following syntax:
Quickrep1.Printersettings.printerindex := Quickrep1.printer.printers.Indexof('HP LaserJet
4 on LPT1:');

A. QuickReport does not create it's printer until it needs it, you'll need to use a
regular printer object that Delphi will initialize for you. the following code will work:
Quickrep1.Printersettings.printerindex :=printer.printers.Indexof('HP LaserJet 4 on
LPT1:');

Q. How can let the users select the printer before running the report?

A. If you call the Report's PrinterSetup method, this will set the printer settings for
the report before you run it. You could do it like:

```
      with frmReport do
      begin
        QuickRep1.PrinterSetup;
        QuickRep1.Preview;
      end;
```

Q. I retrieve the values of the Delphi PrinterSetupDialog and when I use the
printerindex returned by it, I get the error: PRINTER INDEX OUT OF RANGE

A. There is a bug in the Delphi printer setup dialog that causes it to create new
instances of printers in the printer list. QuickReport 2.0i (and later) includes a fixed
printer dialog in the qrprnsu unit. Please use that instead of Delphi's dialog.

Q. When I change the printerindex, I can't select the right paper size.

A. There is a problem in the printers unit where when the printerindex index is changed,
the new printer "inherits" the properties of the previous printer. With the 2.0j release

we now reset the printer driver when the printerindex is changed.

Q. When I use Printer Settings from within QuickReport, it suggests me to write out all 10000 pages, even though my report contain only 10-15 or so...

A. This is a cosmetic bug (the report will never print out anything past the last page) and this will be fixed in a future release.

Q. I can't select a tray for HP printers

A. The printer dialog QuickReport uses is a standard print setup dialog. QuickReport defaults to the Default tray defined in Windows. I believe the problem with some printer drivers (LJ5/6) is that they try to redefine the tray order. We will look for a solution to this for a later version.
One work around is to use the LaserJet III driver when printing with QuickReport.

Q. How do I the printer properties if I use my own printersetup dialog box?

A. Please see the TQuickRep.PrinterSetup method in quickrpt.pas for code showing how to set the printer to what was selected in the setup dialog.

Q. I get an extra blank page when I print a range of pages.

A. The extra blank page problem was addressed in the 2.0k release.

Q. Why do the Properties QRPrinter.Canvas.TextHeight and TextWidth return always zero value when running in 16 bits?

A. The QRprinter.Canvas is a standard metafile in Delphi 1 and a standard metafile doesn't support these functions. Enhanced metafiles in Delphi 2/3 does.

Q. The report prints under Win95 but not under Win 3.1

A. This is probably a printer driver problem even though they use the latest driver. A possible solution might be to try to blank the QRPrinter.OnGenerateToPrinter event to see if that helps.
A workaround is to clear the QuickRep.QRPrinter.OnGenerateToPrinter event, setting it to NIL when the preview is brought up. This will force QR to print the generated metafiles instead of generating the report all over directly to the printer. The down side is that you might experience a slight scaling of the report page and that images might have a lower resolution.

Q. When I use printer fonts, the preview does not match the print out.

A. A possible solution to this problem is to assign the printer specific font to your report at runtime. If you use the same font for all controls in your report you should be able to say

    QuickRep.Font.Name := 'Your font name'

before starting your report. If Windows is able to a reasonably good substitution it should work.

Q. When I use the QRPrinter object, the scaling is off

A. There are some known problems with using the QRPrinter object in this way. With the 2.0h release, we have added a new class, QRPrintJob, which is a wrapper for the QRPrinter object. This code is in the \quickrep\demos\qrprntr directory and makes it easier to do code like what you sent in.

Q. When i use the EPSON LQ-1070+ printer driver the program closed, no error message

A. There is a known problem with using QuickReport with printers that support more than 64 different page sizes. This will be addressed in an upcoming release. At the present time, there is no work around, short of using a generic Epson compatible printer driver.

Q. When I print my reports under NT 4, the font changes are not working correctly.

A. There is a known printing problem with Windows NT 4.0 when you have multiple font changes on the printer canvas. Installing the Service Pack 3 to NT should solve the problem.

Q. I get a exception error when running our application on a machine without a default printer.

A. QuickReport requires that a default printer be installed. The report is prepared using information from the printer driver. The following code shows one way to check and see if a default printer has been defined.

```
procedure TfrmReport.btnReportClick(Sender: TObject);
var
  FDevice:      PChar;
  FDriver:      PChar;
  FPort:        PChar;
  FHandle:      THandle;
  CurrentPrinterName: string;
begin
  GetMem (FDevice, 255);
  GetMem (FDriver, 255);
  GetMem (FPort, 255);
  Printer.GetPrinter (FDevice, FDriver, FPort, FHandle);
  CurrentPrinterName := FDevice;
  if FDevice  nil then FreeMem (FDevice, 255);
  if FDriver  nil then FreeMem (FDriver, 255);
  if FPort  nil then FreeMem (FPort, 255);

  if CurrentPrinterName  '' then
    { Preview the report }
    QuickRep1.Preview
  else
    MessageDlg('You do not have a default printer defined.' +
               #13#13 + 'Please select a printer before running a report.',
               mtError,[mbOK],0);
end;
```

Q. How do I print to a printer different than the Windows default printer?

A. Set QuickRep.PrinterSettings.PrinterIndex to a value corresponding to the printer you want to print to. This value is the same as for the Delphi TPrinter.PrinterIndex. Set to
----

Q. I have some easy reports very simple ones (without graphics), but in a matrix printer they are printed very slowly. Is there a way to print them like the DOS programs did in PRINT, and TYPE filename.ext > PRN?

A. QuickReport renders a report to the printer driver's canvas. It doesn't really have a text mode for printing, rendering the pages is left completely up to the printer driver.
    If the printer driver has a draft mode setting, try making that setting the default.
  You can also try using the "Generic / Text Only" printer driver that comes with Windows.
  You may have to modify the fonts and/or control placement with the report to get satisfactory results with this driver.

Q. I would set to specify a default printer to be used for multiple reports.

A. You have to add the code to determine what the printerindex value is for the printer.
   Then set the QuickRep1.PrinterSettings.PrinterIndex property to this value for each report before you call the print or preview methods
----
Q. My report only prints one page, but the design time preview shows all pages.

A. Check the report's PrinterSettings.FirstPage and PrinterSettings.LastPage properties and make sure that they are set to 0. If you print a range of pages from the design time preview, these two fields may get set to the values that you had selected.

Q. How can I print multiple copies of a report without having to generate it over and over again?

A. You would set the report's PrinterSettings.Copies property to the value that you want.
    Not all printer support this property.

    Another way to print multiple copies is to use the prepare method instead of calling the

```
        print method directly.  For example:

        Instead of:
          with TfrmQR.Create(Application) do
          begin
            QuickRep1.Print;
            free;
          end;

        Try:
          with TfrmQR.Create(Application) do
          begin
            QuickRep1.Prepare;
            QuickRep1.QRPrinter.Print;  { print first copy }
            QuickRep1.QRPrinter.Print;  { print second copy }
            QuickRep1.QRPrinter.Free;
            QuickRep1.QRPrinter := nil;
            free;
          end;
```

    This method generates the report to an internal metafile and then rendered report is sent to the printer twice.

Q. I am getting printer overrun errors with some reports when I print to my laser printer

Q. Some reports are printing dark bands on my laser printer.

A. These problems can happen when you send a full page to a laser printer and that printer does not have enough RAM to print a full page at the specified DPI. Try reducing the DPI or adding more RAM to the printer.

Q. When I call the printersetup dialog, it always shows the default printer, even if I have preset the printerindex to another printer.

A. This is a bug in Borland's dialog, it always comes up with the default printer no matter what the printerindex is set to.

QREditor
========

Q. I am having a problem using TQREditor. If I drop this component on a form and try to run, it says: File not found qrwizard.dcu.

A. The Delphi 3 installer for QuickReport 3.0.5 failed to copy that file in, you can copy it from the quickrpt directory. You may need to copy the qrwziard source code to your project first so that it can compile the .dcu file. After the qrwizard.dcu file has been compiled, you can move that file and the qrwizard.dfm file to the Delphi \lib directory.

Q. The hints for the controls on the TQREditor do not show up.

A. Set the ShowHint property of the parent component (usually a form) of the TQREditor component to true. Your hints should now show up.

Q. Can I manually edit a QREditor (.qr) file with a text editor?

A. You can convert the .qr file to and from a text file by using the ObjectBinaryToText() and ObjectTextToBinary() methods. The QREditor demos for QuickREport 3 on our download page have example code for this.

Q. I get an access violation if I set the QREditor's ShowMenu property to true.

A. This a limitation of the current code and will be addressed in a future release. The work around is to set this property to true at runtime.

Q. How do I master/detail reports in the QREditor?

A. This was added in the 3.0.5 release. You define the master table using the "Report

data setup" dialog. The bottom panel of this dialog allows you to define a detail table and link it to the master table.

Q. I want to be able to execute a report made in "QREditor" (*.qr) without using the QREditor. How can I do this so the user can not edit the report?

A. You can load a qreditor report with the QRLoadREport function (defined in the qrextra unit). Remember to add the qrextra unit to your uses clause. The following code shows how load, preview, and finally free a saved report:

```
procedure TfrmTest.btnQRLoadReportClick(Sender: TObject);
var
  MyReport: TQuickRep;
begin
  try
    MyReport := QRLoadReport('myreport.qr');
    MyReport.Preview;
  finally
    QRFreeReport(MyReport);
  end;
end;
```

For QuickReport 3.0.5 (or later) you would use a TQREditor object to load the report.
Example:

```
  with TQREditor.Create(self) do begin
    OpenReportFile('myreport.qr');
    PreviewReport;
    Free;
  end;
```

Q. I'd like to know how to use my QR files made by Delphi 3 with the release of Delphi 1.

A. The .QR files saved by the QREditor are form description files (.DFM) and DFM files are not downward compatible. You will need to either create your .QR files with Delphi 1 or manually edit them to remove the properties that are not supported with Delphi 1.

Q. How can I send parameters to the QREditor when using a Query?

A. This is not directly supported in the current release. What you can do is to load the saved report and modify the query properties. While you can't pass parameters, you can build an SQL statement with those parameters embedded in the text of the SQL statement. The following example loads a previously saved report and replaces the SQL property if a TQuery was being used or it sets the filter if a TTable is being used:

```
QuickReport 2:
procedure TfrmMain.Button1Click(Sender: TObject);
var
  MyEdit: TfrmQREdit;
begin
  MyEdit := TfrmQREdit.Create(Application);
  with MyEdit do
  begin
    show;
    qreditor1.OpenReportFile('cust1563.qr');
    if qreditor1.Report.DataSet is TQuery then
    begin
      with TQuery(qreditor1.Report.DataSet) do
      begin
        SQL.Clear;
        SQL.Add('select * from customer where CustNo=6312');
        Open;
      end;
    end
    else
    begin
      with TTable(qreditor1.Report.DataSet) do
```

```
          begin
            Active := False;
            {$ifdef win32}
            Filter := 'CustNo=6312';
            {$endif}
            Active := True;
          end;
      end;
      qreditor1.Report.Preview;
      Close; { if you want to make the editor go away after the preview }
    end;
  end;


  QuickReport 3.0.5: (from the QREditor demo on our download page)
  procedure TEdtDemoFrm.btnSalesPreviewClick(Sender: TObject);
  var
    EmployeeNumber: integer;
    MyReport: TQuickRep;
  begin
    // Prompt the user for an employee number to report on
    if GetEmployeeNumber(EmployeeNumber) then begin
      with TEdtFrm.Create(Application) do begin
        try
          QREditor1.ShowMenu := true;
          QREditor1.OpenReportFile('sales.qr');
          // Get the report variable
          MyReport := TQuickRep(QREditor1.ReportEditor.FormEditor.MainControl);

          // Now update the query
          if MyReport.DataSet is TQuery then begin
            with TQuery(MyReport.DataSet) do begin
              if Active then
                Close;

              // Set the SQL statement.  If the user accidently changes the SQL
              // statement, this will make sure that the correct one is in place
              SQL.Text := 'SELECT OrderNo, CustNo, SaleDate, EmpNo, ItemsTotal, LastName,
FirstName '+
                          'FROM orders JOIN employee ON orders.empno = employee.empno '+
                          'WHERE employee.empno = :p0 '+
                          'ORDER BY orders.empno, SaleDate';
              // Pass the selected employee number as the parameter to this report
              Params[0].AsInteger := EmployeeNumber;

              // open the query again
              Open;
            end;
          end;
          // Display the report
          QREditor1.PreviewReport;
        finally
          Free;
        end;
      end;
    end;
  end;
```

Q. After pressing the open button on the QREditor and canceling this action the buttons
do not return to the original state and the 'new' button is disabled.
A. The demo editor project shows how to add a menu to the qreditor with ability to re
enable the new button.

Q. The QREditor's NewImage button is commented out. When will this be enabled?
A. This function will be added to a future release.

Q. Can I use the PAGE function somehow in TQREditor?
A. This will be in the 3.0 release (due out in 98)

Q. I am interested in the TQREditor component, but I have a question: How can I create a master-detail report through the component?
A. At the current time, the QREditor component is limited to a single dataset. This functionality will part of a future release.

Q. When working with the QREditor, the Title band does not get previewed nor printed. All the layout options and the band properties appear to be set correctly, but the band will not preview or print.
A. Have you defined a dataset for this QREditor report? If you do not have one, the title band will not be output.

Q. Is it possible to bypass the login dialog when I want to report data from a database server with the QREditor? (by providing username and password via code)
A. With the BDE, you'll need to use a TDatabase component and set the username and password via the params property. You can't add this to a report created by QREditor, but if you put the component on the same form as the QREditor, this should work. I tested this with a password protected MS Access database and it worked.

Q. I'm using Quickreport editor and I found a problem. If I want to put in a report a label and its caption is the same name of a dataset field's, I can't put this label caption in the report.
A. This is a known problem and will be addressed in a future release. One work around is to use a SQL statement to rename the columns in the table so that the names do not overlap. Example

    SELECT OldName AS NewName FROM SomeTable

Q. The fields in the QREditor are printing as the field names instead of the values.
A. When you select a dataset with the editor, it names it either TTable1 or TQuery1. If you have datasets with the same name, this can cause a conflict with the QREditor where it tries to use the wrong dataset. Renaming the other datasets removes this conflict. This will be addressed in a future release.

QuickReport 3
============

Q. In QuickReport 3.0.4, the groupfooter with the AlignToBottom property set true will sometimes print over the bottom of the last detailband.
A. This is an open bug and will be addressed in a future release. If you set the LinkBand property of the detail band to the group footer band, that should force a page break when there is not enough room for both bands on the same page.

Q. How do I change the language of the package? What files need to be modified in Quick Report 3 and how do I rebuild the packages?
A. Most of the text strings are defined in qr3const.pas. A few of the units have text properties set in their .dfm files.

   After you change those units, you will need to rebuild the runtime package (qrpt40 for Delphi 4, qrpt43 for Delphi 3). The qrpt4*.dpk file can be found in the quickrpt directory where the source code was installed. Close all projects and any program using Delphi runtime packages. Load the .dpk file and build it. If you get an error about missing units, just remove those units from the package file. Then load the design time package, dclqrt40.dpk (or dclqrt43.dpk for Delphi 3). Rebuild that unit (removing any units that Delphi can not find).

After you rebuild the packages, you will need exit Delphi. Copy the qrpt40.bpl (or
qrpt43.dpl) to your windows system directory. Copy the design time package dclqrt40.bpl
(or dclqrt43.dpl for Delphi 3) to the Delphi bin directory. Then copy the .dcu and .dfm
files to the Delphi lib directory.

The next time you start Delphi, it should be using the recompiled packages.

Q. I get an error using QRCreatelist with code that worked in Qr2.
A. With QR3, the report variable must be of type TCustomQuickRep.

Q. Dropping a TQRlabel or another TQRPrintable on a TQuickReport with the property Units
set to another value than PIXEL set the values of Top and Left not to the position of the
mouse, but to high dummy values like 7418.
A. This is a known problem if the report is on a form with non-QR visual controls.
Placing the report in it's own form is the work around for this problem.

Q. When I set PrintBand to false, the dataset fields for that line are excluded from the
TQRExpr functions. In Quick Report 2, these fields are included in the calculations.
A. This is a feature that had been requested by many users. It had been expressed to us
that if a band was suppressed, it's data should be excluded from the accumulator
functions like SUM(). To emulate the Quick Report 2 code, instead of setting PrintBand
to false, set the height of the band to 0 when you want to suppress it and still use it
for functions. Just remember to set the height back to the design time height when you
do want to print the band.

Q. Every time I preview a report with my custom preview, I lose some memory.
A. You will want to check your preview's FormClose event. If you are using code from
Quick Report 2, that code may not work correctly. You may want to compare your close
event code with the code used by the standard preview.

Q. I can't find the qrbonus unit.
A. The classes that were the qrbonus unit are now in the qrextra unit.

Q. I have a report with some controls on a TQRBand and the preview is empty.
A. You must have a detail band, this is required for Quick Report 3. Using reports
without detail bands was an undocumented feature of Quick Report 2 and was never
supported.

Q. (Delphi 3) I am getting an error when I compile with runtime packages enabled. With
out runtime packages, it works fine.
A. The package list will not get updated automatic when you install QR3 over QR2 and you
may have the QR2 runtime package (qrpt30.dpl) on the list instead of the Quick Report 3
runtime package (qrpt43.dpl)

Q. I have a report that does not print the DetailBand (DetailBand1BeforePrint() sets
PrintBand to False). With version 2 of QuickReport, SUM() expressions in groups
incremented their values whether or not the detail band printed. In version 3.0.4, it
appears that the SUM() expression only increments if the detail band prints. What can I
do to change this behavior back to how version to handled this?
A. This was actually a change that had been requested by other users. There is a simple
work around that you can use in the BeforePrint event. Instead of setting PrintBand to
False, set the band height to 0. If you need to restore the height, set the tag property
of the band to the height and restore the height from the tag in the band's AfterPrint
event. The report will still think that it printed the band, but the size will be 0 so
you will not see the band and your sum will include the data from the hidden records.

Q. My users can not see the buttons on the preview's toolbar.
A. What version of comctl32.dll is on your system? The preview uses a TToolbar control
and that control will not display glyphs from an imagelist when the destination computer
has an older version of this dll.   It was compiled for version 4.72. You have a couple
of options. You can get the free update from MS for the current comctl32.dll, or you can
recompile the QR package against the old version of comctl32.dll (not recommended),

modify the standard preview in the qrprev unit so that it does not use TToolbar, or you could use a custom preview that does not use a TToolbar control. We have Custom Preview examples on our download page and with QR3, you can change the preview on a global basis. There is an MDI demo example on our download page that shows how to do this. Delphi 4 requires (and installs version 4.72) You can download the file directly from Microsoft at the URL http://msdn.microsoft.com/developer/downloads/files/40comupd.htm. It has been reported that this link is no longer valid, an alternative would be ftp://ftp.microsoft.com/softlib/mslfiles/40comupd.exe

----

Q. With QuickReport 2, I could set OnGenerateToPrinter to nil to keep the report from being regenerated. How do I do this in Quick Report 3?

A. The OnGenerateToPrinter property is a QR2 only property, it doesn't exist in QR3. There are a couple of ways to do this in QR3. You can set the report.qrprinter.master property to nil in the BeforePrint event of the summary band. If you don't need a summary band, you can set PrintBand to false in that event. You could also use a custom preview and change the print button to call the preview's qrprinter.save to a temporary file and then qrprinter.load. You would then call the qrprinter.print method to print the loaded report.

Q. I think I have installed version QuickReport 3 correctly with Delphi 3, and it prints short reports if I call the PRINT command. If I use preview however, I receive a "Control has no parent window error" when I press the print button. I didn't have this problem with Version 2.0K.

A. The DLL needs a reference to the calling application so that the DLL's forms are children of the application. Please see the Delphi help page for TApplication.Handle.

Q. I am trying to compile a report from QuickReport 2 and I get the message "Undeclared identifier TQRDetailLink."

A. The TQRDetailLink class was a QuickReport 1 object. QuickReport 2 had partial support for this control and it was treated as an alias to the TQRSubDetail control. QuickReport 3 does not have any support for reports that were ported from QuickReport 1. If you replace the TQRDetailLink controls with TQRSubDetail controls, your report should run like it did under QR2. The TQRDBCalc control from QR1 will also produce the same error. This was replaced with the TQRExpr control.

Q. I am creating an end user report generator and use the TQRDesigner to enable objects edit and selection functions, but I couldn't find it in the new version.

A. The TQRDesigner is no longer part of the package, we use the Delphi form designer to edit the report.

Q. I just installed Quickreport 3.03 Pro for Delphi 3 Client/Server and recompiled (Build All) a project that worked fine with QR 2.0j. In order to get it to compile, I had to remove unit QRHTML from all uses clauses because I got a fatal compile error that QRHTML was compiled with under different version

A. The qrhtml unit is a QuickReport 2 only unit, it is not part of the QR3 file set, you can remove all of the references to it. If you may many reports that use the unit, it would save time to create a stub unit named qrhtml that didn't have anything in it. When you get that error message with QuickReport 3, it usually means that the compiler is finding QuickReport 2 files.

Q. I have some variables defined in the report's functions property and I can't initialize them in the report's BeforePrint event.

A. The report's BeforePrint event is called before the elements in the report's functions property have been initialized. One way to initialize the function variables in code would be to use the BeforePrint event of the TitleBand. If your report does not require a title band, set PrintBand to false in that event.
Example of setting an integer value at the start of the report:

```
procedure TfrmExpr.TitleBand1BeforePrint(Sender: TQRCustomBand;
  var PrintBand: Boolean);
var
  aQREvElement: TQREvElement;
begin
```

```
      with QuickRep1.Functions do
      begin
        aQREvElement := GetConstant('test');

        if (aQREvElement  nil) and (aQREvElement.Value(nil).Kind = resInt) then
        begin
          SetIntegerConstant(aQREvElement, 10);
        end;
      end;
    end;
```

Q. I get the error message "Undeclared identifier; 'TQREvaluator'" when I compile a
report that worked with QuickReport 2
A. We moved the expression classes to a new unit, qrexpr. If you add this unit to your
uses section, the report will compile again.

Q. I have a simple project which has a quick report, no bands, just a few labels, memo
boxes, and pictures. It worked prior to my upgrade to a purchased version. Now if I do
a Preview, the screen is blank, no data, as well as if I do a print, nothing happens.
A. QuickReport was designed to work with bands. Placing controls directly on the band
was a non-supported feature of the previous version.   Try adding a detail band (set it's
height to 1) and then set the report's PrintIfEmpty property to true. Your report should
now work as it did with QuickReport 2.

Q. Delphi4 doesn't find the class "TQREvElementFunction" and my project will not compile.

A. Make sure the qrexpr unit is in the uses clause, that is where the TQREvElement
structures are defined.

Q. The following code does not compile after upgrading: ReportForm.
ExportToFilter(TQRHTMLExportFilter.Create(AttachmentFile));
A. The naming was changed. The following code will work: ReportForm.
ExportToFilter(TQRHTMLDocumentFilter.Create('c:\report.htm'));

Q. Can we use some TQRGroup with a TQuickAbstractRep control ?
A. Not really, the TQuickAbstractRep does not have a DataSet property or OnNeedData
event. The mechanism for checking the group expression does not exist and the band would
be printed only once.

Q. Where are the documentation, help files, examples, QREditor, etc?
A. QuickReport 3 is still being finished up and the documentation and help files are
still being updated. We will release them, but our efforts are focused on finishing up
the package. The QREditor control will be in the release version of QuickReport 3 Pro.

Q. What is the TQuickAbstractRep control?
A. This is a descendant of the TCustomQuickRep base class that does not use the TDataset.
If your application does not use the BDe, this will shrink the code size.

Q. Why do report event use TCustomQuickRep instead of TQuickRep?
A. This is the base class that TQuickRep is descended from. This change makes it easier
to do variations QuickReport objects

Q. What happened to OnGenerateToPrinter?
A. This feature has not been finished yet and has been disabled until it has been fixed.

Q. Are there any plans to continue support of QR1 in Delphi 4 like was done in Delphi 3
with QR 1.1b?
A. This fileset is available from our sales department upon request.

Q. What is the TQRLoopBand control?
A. This is a band that is not connected to any dataset and will print for the number of

      times that it's PrintCount property is set to.

Q. What is the TQRStringsBand control?
A. This is a band with a items property that is a built in stringlist. It's name will
      appear in the expression builder and can be assigned to a TQRExpr control. At runtime,
      this band will print for each line in the items property.

Q. How do you use the export filter controls?
A. Just drop them on a form in your project and they will show in the previews.

Q. What is the new 'LinkBand' property?
A. This works like the LinkBand property in QuickReport 1. The Band components have a
      LinkBand property which is used to make several bands stick together. The LinkBand
      property can be set connected to another Band and QuickReport will then make a page break
      if there is not enough space left on the page for both bands. The second band can in turn
      be linked to a third band, and so on. It will not keep a series of bands together, like
      a group of detail bands. We have a demo project for QuickReport 3, QR3LSD4.ZIP, that
      shows how to "link" a set of bands.

Q. How can I display a text file with QR3?
A. Qr3 has some new functions to make this an easy task.
      #1 Create a report using the TQuickAbstractRep control instead of using the TQuickRep
      control. The TQuickAbstractRep control does not use any data ware controls and can
      shrink the size of your executable if you are not using any data ware controls in your
      application. You can use the TQuickRep control, you just don't need to use it.
      #2 Add a TQRStringsBand to the report. This is a band with a items property that is a
      built in stringlist.
      #3 Add a TQRExpr control to the band. Set the following properties
      Autosize - False
      AutoStretch - True
      Expression - to the name of the band (like 'QRStringsBand1')
      Width - to the width of the band (can be done at runtime)
      #4 Before calling Print or Preview, load the text file into the items property of the
      TQRStringsBand like this:
      QRStringsBand1.Items.LoadFromFile(SomeFileName)
      #5 Call the preview or print methods.

RichEdit controls
================

Q. How can I edit the RTF data in a TQRDBRichText control before it prints?
A. You would need to put the load data into a TRichEdit and edit the data there. You
      would link the TRichEdit component to a TQRRichText component by setting the
      TQRRichText's ParentRichEdit property to the TRichEdit.

Q. How can I copy the text from a TRichEdit component to the QuickReport RichText
      component?
A. You would use the lines property to copy the data. Example: QRRichText1.Lines := frm.
      RichEdit1.Lines;

Q. I get an access violation when I have QRDBRichText on a subquery
A. This is a recently discovered problem that happens with TQuery's that do not have
      persistent fields. Adding persistent fields will fix this. If you can not do this,
      insert a line into the TQRDBRichText.Print method in qrctrls.pas like the following
      example using the 2.0k beta code:
      procedure TQRDBRichText.Print(OfsX, OfsY : integer);
      begin
        Field := FDataSet.FindField(FDataField); { Add this line }
        if assigned(Field) then
          if (Field is TMemoField) or
             (Field is TBlobField) then

```
        Lines.Assign(Field);
      inherited Print(OfsX,OfsY);
    end;
```

Q. My RTF field will not span more than one page

A. There are some serious bugs in Microsoft's implementation of their RichText common
control. We are implementing work arounds to resolve as many of these issues as we can.
At this time we are still working on RTF fields that span more than one page.

Q. My RTF field doesn't consistently print out the last line in the memo.

A. This is known problem with the MS RichText common control. There are two works
arounds. One is to add an extra blank line to the text, the other is to set the
OnGenerateToPrint event of the report's qrprinter object to nil. This will force the
report to not render the report a second time.
Example:
```
procedure Tfrmqr.QuickRep1BeforePrint(Sender: TQuickRep; var PrintReport: boolean);
begin
  QuickRep1.qrprinter.OnGenerateToPrinter := nil;
end;
```

Q. Can I print a richtext object that is in a field of a file with ole2 bmp object
inserted in it?

Q. My QRRichText control is ignoring the "\page" page break command.

A. I'm sorry, but the TRichEdit control that the QRRichText and QRDBRichtext controls
link to is limited to text only and it does not appear to support this feature. Our
controls are limited to the functionality of Borland's RichEdit control, which is a
wrapper for Microsoft's RTF control. The MS RTF common control only supports a subset
of the RTF control codes. To see what sequences are supported, load your RTF text into
WordPad. WordPad uses the same common control and if it doesn't support an RTF control
sequence, then it wont work on Delphi.

Q. My QRDBRichText control is not resizing correctly.

A. If the design time height of a QRDBRichText control is greater than some of the
fields, it may not resize correctly. If you set the height to a small value like 10 and
set autostretch to true, it should work.

Q. My QRRichText/QRDBRichText will not display or print embedded bitmaps.

A. The TRichEdit and TDBRichEdit controls do not support embedded objects and since our
RTF controls use the Borland RTF controls, we have the same limitation.
We have written some QuickReport 3 components that can use some of the 3rd party RichEdit
2 components. Please see the QR 3 release notes web page, http://www.qusoft.
com/relnotesqr3.htm for more information.

Saved Reports (*.QRP)
====================

Q. I am using the QRPrinter object and I can't get it to save to a text file.

A. Saving as text uses the ASCII export filter and the export filters only work with
reports. When you use the qrprinter object directly, the only save option is the default
.QRP save.

Q. If I save a report with the Report's Options.Compression property set to true, I
can't load the saved the report back into the preview.

A. This is a bug in the TMetaFile component introduced with Delphi 3.02. This should be
addressed in the next Delphi release.

Q. How do I load a previously saved report via code?

A. We have a class, TQRPHandler, that is defined and documented in the QRBonus unit in
QR2 and in the QRExtra unit for QR3. This class is designed to easily allow you load a
saved report using the following syntax:

```
    Delphi:
      with TQRPHandler.Create do
      try
        Filename := 'somefile.QRP';
        Preview; {or}
        print;
      finally
        Free;
      end;

    C++:
      fQRPHandler = new TQRPHandler;
      // Set it's filename property to one selected by the user
      fQRPHandler->Filename = OpenQRPDialog->FileName;

      fQRPHandler->Print();
      // or
      fQRPHandler->Preview();

      fQRPHandler->Free();
      fQRPHandler = NULL;
```

There is a bug in current release that will prevent this from printing with Delphi 1.
(QR3) In Quick Report 3, the classes that were in qrbonus were moved to the qrextra unit.

Q. What is the format of a report saved to disk by clicking the save button in the previewer?

A. The saved report format is a proprietary metafile format that is only readable by QuickReport.

Q. Why can't I load reports saved from the preview into the Editor and vice versa?

A. The .QRP files saved by the preview are a rendered copy of the report saved as a metafile (not WMF format). You can only preview or print a .QRP file. The .QR file saved by the Editor is a Delphi resource file like a .DFM file and is basically a report form. It contains the information required to run a report, but it does not have any data from the report in it,

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Q. I am trying to do is distribute .qrp files to our sales force. On their end I will associate .qrp with a viewer we create. If I create the .qrp file here where my default printer is a laserjet and distribute the report to someone who has a canon?

A. You can, but if the page sizes are different the page will be stretched (or compressed) to fit the page and there may some loss in resolution. An alternative way of doing this would be to use Adobe Acrobat and print the files as PDF files. The files would be more compact and Adobe makes the Acrobat Reader program freely available for multiple platforms. Please not: Quick Report does not come with the Adobe Acrobat PDFWriter printer driver used to make PDF files.

Text controls
=============

Q. I wish to print mailing labels. But sometimes I have only one label to print. But print starts every time with the top left label. How can I say, that print starts with the second label or in the second column with the 4th label

A. There are a few ways of dong this. You could use the OnNeedData event to drive the report and code it to print X blank detail records until it reaches the label that you want start with. You could also use a temporary table and write X number of blank records to the start of the file. You could also add child bands to the title band and increase their size to eat up the space required to fit the columns.

Q. When I increase a component's font size, the component's height increases. When I set the font size to a smaller value, the component does not shrink the height. Why does

it do that and how can I make the component shrink in height?

A, We trap the CM_FONTCHANGED message for TQRCustomLabel components. When you change the font property, that message calls the CMFontChanged procedure. This procedure tells the component to reformat the text and resize the height of the control of needed. When you go from a larger font size to a smaller size, the height will not change. To force the component to match the font size, you would need to set the height to 0 before changing the font size.

Q. Why doesn't the OnPrint event work for memo fields with the TQRDBText component?

A. Memo fields do not use the OnPrint event. The reason behind the OnPrint event was to be able to override short text fields, like to expand an abbreviation. If you really want to override a memo field, you could use a calculated field and handle that type of code in the OnCalcField event.

Q. How do I force the text components to clip by letter instead of by word?

A. The current code clips on word boundaries. If you have a single line of text and you want to control the clipping by the letter, you can use the OnPrint event of the text component to manually clip the text. The following example event can be used as a generic handler for multiple text components on a report:

```
procedure TfrmReport.QRLabel4Print(sender: TObject; var Value: String);
begin
  with TQRCustomLabel(Sender) do
    while (ParentReport.TextWidth(Font, Value) > Width) and (Value  '') do
      Delete(Value, length(Value), 1);
end;
```

Q. The OnPrint event for the TQRDBText component does not get called when the data is null.

A. This is a limitation of the TQRDBText component. The work around is to use a TQRExpr component and in it's OnPrint event, check the IsNull property of the dataset field.

Q. My multi line text control only prints as a single line and it goes right off the right margin.

A. Make sure that you have autosize set to false and AutoStretch set to true and WordWrap set to true.

Q. The OnPrint event of my TQRLabel control is never being called.

A. Is the caption of the label blank? The code checks the caption and if it's blank, it doesn't call the OnPrint event to save time. If you want to use OnPrint with a TQRLabel, you must set the Caption to a non empty string.

Q. I have controls on the page footer that use the detail table. On the each page of a report (except for the last page) the first record's data appears everywhere except in the page footer where the second record's data appears.

A. When the page footer band is printed, the report is already working on the first detail record for the next page. One way around this would be to use the AfterPrint event of the detail band to store the data for the page footer band in some variables. In the BeforePrint event of the footerband, you would use TQRLabels and set the their captions to the string representations of the variables.

Q. On a band, I have some QRDBText fields and a QRMemo field (set to autostretch=true). When the memo field is going to go beyond the current page - QR prints the memo first (instead of the text fields) and then rolls on to the new page, finishes the memo, and then prints the text fields on top of the next page. How can I force the QRDBText fields to print first?.

A. The memo control is being printed first, which causes the page break and the rest of the controls are printed afterwards. If you change the creation order of the controls on the band so that the memo is last, the other controls will print first. Select each control (except for the Memo) and right-click on each one and select "Send to Back". That will create other controls before memo.

Q. I can't get my text to word wrap if it doesn't have any carriage returns in the text?

A. Check to make sure that your text has spaces in it. If the text is unbroken, it will not be word wrapped.

Q. My RTF text does not have the same formatting as it appears in MS Word.

A. QuickReport's RichText control uses Delphi's RichEdit control, which in turn is a wrapper for Microsoft's RichEdit common control. And that control may not be able to handle your file. Almost all of our RTF problems have been traced to bugs in that common control, and it ripples down to our control. If you load your rtf file into WordPad and it looses the formatting, then you can trace it to the common control.

Q. I can't get the mask property work with my phone number field (it's a string field)

A. The mask property only applies to numeric fields and will be ignored on string data. Use the OnPrint event to format the field like the following:

```
procedure TfrmReport.QRDBTextPhonePrint(sender: TObject; var Value: string);
begin
  Value := '(' + copy(Value,1,3) + ') ' + copy(Value,4,3)
    + '-' + copy(Value,7,4);
end;
```

Q. If the report contains nulls or blanks these are not included, this destroys the alignment of the columns. Is there any way to include all nulls?

A. Use a QRExpr control for fields that could have nulls and for the expression use the IF() function to insert a space for null fields like the following:

```
IF(tbSample.Extra'', tbSample.Extra, ' ')
```

Q. My multiple line QRDBText controls are having the words cutoff at the right margin even when autosize is set to false.

A. If you have autostretch turned on, please make sure that the WordWrap is also turned on.

Q. I can't get the mask property to work on my numbers.

A. Please make sure that you are using a number field, the mask property will be ignored for string fields.

Q. I read the FAQ to use TQRDBText because there is no TQRDBMemo, but when my memo contains embedded carriage returns they show up as a square symbol, not as a new line.

A. This was a known bug and it was fixed in the 2.0j release.

Q. Is there a property for QRDBText to tell it *not* to split itself across pages? (i.e. widow/orphan protection.)

A. We do not have support for a Window/orphan feature, but you can do this with some minor code.

There is a function in the report called AvailableSpace that returns the amount of space left on the page. You can compare that value to the band's Size.Length property and call NewPage when There is not enough space for the band. AvailableSpace is a protected function so you can not call it directly. If you subclass the report, you can access the function by casting the report to the subclass.

First, add the following declaration in the type section of your report form declaration:

```
  TMyQuickRep = class(TQuickRep)
  end;
```

To use this function to keep a band from being split over a page:

```
procedure Tfrm.DetailBand1BeforePrint(Sender: TQRCustomBand;
  var PrintBand: Boolean);
begin
  if TMyQuickRep(QuickRep1).AvailableSpace >= round(Sender.Size.Length) then
    Sender.ParentReport.NewColumn;
end;
```

Q. What about adding real "LeftAndRightJustify" (newspaper style) (aka Full Justification) in an upcoming release?

A. This will not be part of QuickReport. A future release will make the FormatLines

procedure virtual so this can be done in a descending component by someone else.

Q. How do I control interline spacing within a QRMemo? Sometimes I need greater control over the line spacing.

A. We do not support this. This is being considered for a future release, but it has not been scheduled yet.

Q. When a TQRDBText field is added to a pageheader band the field is not refreshed (it remains the last field printed).

A. This is not a bug, the report is designed to retrieve rows from the dataset when it handles the detail band, it's not designed to refresh the dataset at the first call for the PageHeader. There is a simple way to get the correct for what you want to do. In the BeforePrint event of the report, add a line that goes to the first row of the dataset. If you are using a TTable named "Table1" it would look like this:

```
procedure TfrmSample.QuickRep1BeforePrint(Sender: TQuickRep;
  var PrintReport: Boolean);
begin
  Table1.First;
end;
```

Q. I put a mask 999\-999\-9999 for a phone number. And it still printing 5144559400 instead of 514-455-9400. Why?

A. That is the format of the editmask used by the TMaskedEdit control. The QRExpr control's mask is the format string used by FormatFloat() and FormatDateTime functions. Please refer to their documentation for allowable values. In this case, the format mask for the USA phone number would '(000) 000-000'
Documented on page 2-32 in the manual.

Q. I have two autostretched text controls on one band and it doesn't work right.

A. Multiple stretching controls on one band is not supported. This is documented on the manual page for the AutoStretch property. This limitation was removed in the 3.0 release.

Q. I have a calculated table field and it has line breaks in the text and those line breaks don't print.

A. Delphi defines calculated table text fields as TStringfield and QR handles that type of field differently than it handles actual memo fields. To output a calculated text field, use a QRMemo component and set QRMemo.Lines.Text to the value of the calculated field at runtime.

Q. I am setting QuickRep1.QRPrinter.OnGenerateToPrinter:=nil to expedite the printing of a large report from the preview form. When I use the printersetup to select a subset of the pages for printing, I still get all of the pages printed. When I don't set OnGenerateToPrinter:=nil, the settings take effect and I get the subset of pages printed. How can I print a subset of the pages and still use OnGenerateToPrinter:=nil to expedite printing?

A. This is a known limitation (also applies to saved reports) and will be addressed in a future release. The only work around would be to only set the OnGenerateToPrinter to nil when you know that the printer setup button has not been pressed. Starting with the 2.0j release, if you use a custom preview, you can check the result of calling printersetup and then you could set the OnGenerateToPrinter to nil if the user did not use printersetup.

Q. Is there a simple way to use a single QRLabel and create a label with the letters stacked on top of each other. An example is shown below.

P
A
T
I
E
N
T

A. With QR 2.0J you can insert carriage returns and line feeds between each letter and set the Stretch property of the control to true.
Example:
qrlabel1.Caption :=   'V' + #13#10 + 'E' + #13#10 + 'R' + #13#10 + 'T' + #13#10 + 'I' + #13#10 + 'C' + #13#10 + 'A' + #13#10 + 'L';

Q. I need to change the DataField properties on the QRDBText component under run-time so that it uses one field on page 1 and another the rest of the pages.
A. You can not change the DataField property after the report starts. You could use a TQRLabel control and set it's value at runtime in (either in it's OnPrint event or it's parent band's BeforePrint event) based on the current value of the report's PageNumber property.

Q. If I use tabs (ctrl-tab in the editor) in my TQrMemo fields the report prints []. Is that a general problem in TQrMemo fields?
A. Tab characters are not supported in the TQRMemo, TQRLabel, TQRExpr, TQRDBtext controls. The only control that will correctly display a tab character are the RichText controls.

Q. Is it possible to change the Autosize property of the QRImage and the Autostretch property of the QRRichtext at runtime ?
A. Yes, you can change most of the properties at runtime in the BeforePrint and AfterPrint events of the report and of the band that the controls are on.

Q. Can you advise me how to suppress the printing of blank fields in mailing label report?
A. Use a TQRMemo control and fill it with only the information that is not blank.
Example:

```
procedure TReportForm.AddIfNotBlank(memo: TQRMemo; s: string);
begin
  { simple function to only add non blank fields }
  if Trim(s)  '' then memo.Lines.Add(s);
end;

procedure TReportForm.DetailBand1BeforePrint(Sender: TQRCustomBand; var PrintBand:
Boolean);
begin
  QRMemo1.Lines.Clear;
  QRMemo1.Lines.Add(Table1Company.AsString);

  AddIfNotBlank(QRMemo1, Table1Addr1.AsString);
  AddIfNotBlank(QRMemo1, Table1Addr2.AsString);
  AddIfNotBlank(QRMemo1, Table1City.AsString + ', ' +  Table1State.AsString + ' ' +
Table1Zip.AsString);
end;
```