

MODULE 11.4: CHARTS

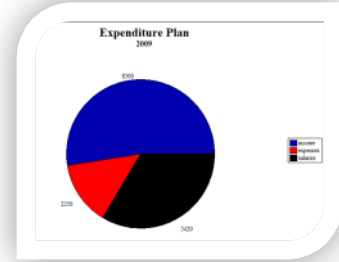
Subject Outcome 1: QCharts with fixed information

Subject Outcome 2: QCharts with information from a database



11.4 CHARTS

11.4.1 QCHART



After a business has entered all the required information, they need to prepare a presentation using graphs and charts. The QCHART element will take information, process it and then provide graphical charts.

11.4.1.1 FIXED DATA

This component will alter the appearance with a loaded file (custom) and not a pre-defined cursor from the MS Window's Cursor library. It is also capable of moving the cursor to an indicated position.

Syntax:

\$include <qchart.inc>

Dim ? as Qchart

Sno	Property	Description
1	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> CREATE Form AS QFORM Caption = "CHART" Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart" end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create END CREATE SetWindowLong[Form.Handle, -8, 0] SetWindowLong[Application.Handle, -8, Form.Handle] Form.ShowModal </pre>	<p>Include the QCHART element.</p> <p>Create the chart element area</p> <p>Refresh to display</p>
2	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart CREATE Form AS QFORM Caption = "CHART" Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart" onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart </pre>	<p>Initializing the chart and setting the type of chart. Nothing is visible yet as we did not compile the data yet.</p>

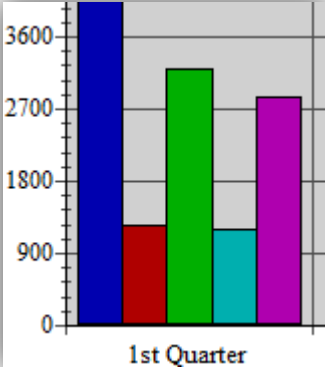


Sno	Property	Description
3	<pre> end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowDialog sub callchart graph.initialize graph.charttype=ctbar graph.chartstyle=csbar end sub </pre>	
4	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart CREATE Form AS QFORM Caption = "CHART": Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowDialog sub callchart graph.initialize graph.charttype=ctbar graph.chartstyle=csbar graph.drawchart(false) end sub </pre>	Drawchart (false) (display the chart).
5	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowDialog sub callchart graph.initialize graph.charttype=ctbar graph.chartstyle=csbar graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009" end sub </pre>	Enter headings/titles.



Sno	Property	Description
	<pre>graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.drawchart{false} end sub</pre>	
6	<pre>\$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal sub callchart graph.initialize graph.charttype=ctbar graph.chartstyle=csbar graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009" graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5: graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.drawchart{false} end sub</pre>	<p>Data – Cols and Rows. This will set the database for the data required by the chart to be drawn.</p> <p>Database layout. Assign the database to the graph.</p>
7	<pre>\$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal sub callchart graph.initialize:graph.charttype=ctbar graph.chartstyle=csbar graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows)</pre>	<p>Adding labels. Axis label text items. Usually one for each category. When you code the rows property, you set the data values in each serie. In other words, you break the chart into categories/sectors. When adding items to each ROW, you will name each category/sector.</p>



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	<pre> graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.drawchart(false) end sub </pre>													
8	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal sub callchart graph.initialize:graph.charttype=ctbar graph.chartstyle=csbar graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.drawchart(false) end sub </pre>	<p>Legend list For each COL property, a COL will be displayed indicating the information as obtained. The LEGENDLIST.ADDITEMS property will name each column (COL) that is displayed on the Chart per category/sector as indicated by the ROWS property.</p>												
9	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal </pre>	<p>Adding information to the database</p>  <table border="1"> <caption>Data for 1st Quarter Chart</caption> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Income</td> <td>3600</td> </tr> <tr> <td>Expenses</td> <td>1200</td> </tr> <tr> <td>Salaries</td> <td>3000</td> </tr> <tr> <td>Tax</td> <td>1000</td> </tr> <tr> <td>Profit</td> <td>2700</td> </tr> </tbody> </table>	Category	Value	Income	3600	Expenses	1200	Salaries	3000	Tax	1000	Profit	2700
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	<pre> graph.data(5,1)=graph.data(1,1)-graph.data(2,1)-graph.data(3,1)-graph.data(4,1) graph.data(1,2)=7500:graph.data(2,2)=1050 graph.data(3,2)=3100:graph.data(4,2)=graph.data(1,2)*0.14 graph.data(5,2)=graph.data(1,2)-graph.data(2,2)-graph.data(3,2)-graph.data(4,2) graph.data(1,3)=7900:graph.data(2,3)=1120 graph.data(3,3)=3000:graph.data(4,3)=graph.data(1,3)*0.14 graph.data(5,3)=graph.data(1,3)-graph.data(2,3)-graph.data(3,3)-graph.data(4,3) graph.drawchart{false} end sub </pre>	
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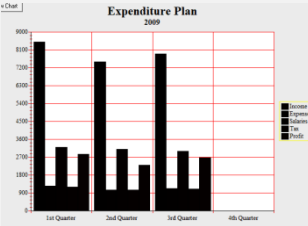


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13	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onchange=callchart end create create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal sub callchart graph.initialize:graph.charttype=ctbar graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[3,1]=3200:graph.data[4,1]=graph.data[1,1]*0.14 graph.data[5,1]=graph.data[1,1]-graph.data[2,1]-graph.data[3,1]-graph.data[4,1] graph.data[1,2]=7500:graph.data[2,2]=1050 graph.data[3,2]=3100:graph.data[4,2]=graph.data[1,2]*0.14 </pre>	<p>ONPOPOPUP will add more functions related to the CHART when you right mouse click on the chart area.</p>



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	<pre>graph.data(5,2)=graph.data(1,2)-graph.data(2,2)-graph.data(3,2)-graph.data(4,2) graph.data(1,3)=7900:graph.data(2,3)=1120 graph.data(3,3)=3000:graph.data(4,3)=graph.data(1,3)*0.14 graph.data(5,3)=graph.data(1,3)-graph.data(2,3)-graph.data(3,3)-graph.data(4,3) graph.drawchart(false) end sub</pre>	
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15	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onchange=callchart end create create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal sub callchart graph.initialize </pre>	<p>Black & White charts</p> <p>This will set the graph to be black and white (for faxes, etc)</p> 



Sno	Property	Description
	<pre> graph.axisborder=1 graph.chartborder=1 graph.bgcolor=15461355 graph.fgcolor=65535 graph.plotareacolor=16777215 graph.gridcolor=255 graph.colors[1]=16764671 graph.colors[2]=16030700 graph.colors[3]=15335658 graph.colors[4]=11010216 graph.colors[5]=0 graph.bw=1 graph.charttype=ctbar:graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[3,1]=3200:graph.data[4,1]=graph.data[1,1]*0.14 graph.data[5,1]=graph.data[1,1]-graph.data[2,1]-graph.data[3,1]-graph.data[4,1] graph.data[1,2]=7500:graph.data[2,2]=1050 graph.data[3,2]=3100:graph.data[4,2]=graph.data[1,2]*0.14 graph.data[5,2]=graph.data[1,2]-graph.data[2,2]-graph.data[3,2]-graph.data[4,2] graph.data[1,3]=7900:graph.data[2,3]=1120 graph.data[3,3]=3000:graph.data[4,3]=graph.data[1,3]*0.14 graph.data[5,3]=graph.data[1,3]-graph.data[2,3]-graph.data[3,3]-graph.data[4,3] graph.drawchart[false] end sub </pre>	<p>Graph.bw=0 (off) Graph.bw=1 (on)</p>
16	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onchange=callchart end create create startchart as qbutton </pre>	<p>Display legend (=1) or not (=0)</p>



Sno	Property	Description
	<pre> left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal sub callchart graph.initialize graph.axisborder=1 graph.chartborder=1 graph.bgcolor=15461355 graph.fgcolor=65535 graph.plotareacolor=16777215 graph.gridcolor=255 graph.colors(1)=16764671 graph.colors(2)=16030700 graph.colors(3)=15335658 graph.colors(4)=11010216 graph.colors(5)=0 graph.bw=0:graph.dolegend=0 graph.charttype=ctbar:graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data(1,1)=8500:graph.data(2,1)=1250 graph.data(3,1)=3200:graph.data(4,1)=graph.data(1,1)*0.14 graph.data(5,1)=graph.data(1,1)-graph.data(2,1)-graph.data(3,1)-graph.data(4,1) graph.data(1,2)=7500:graph.data(2,2)=1050 graph.data(3,2)=3100:graph.data(4,2)=graph.data(1,2)*0.14 graph.data(5,2)=graph.data(1,2)-graph.data(2,2)-graph.data(3,2)-graph.data(4,2) graph.data(1,3)=7900:graph.data(2,3)=1120 graph.data(3,3)=3000:graph.data(4,3)=graph.data(1,3)*0.14 graph.data(5,3)=graph.data(1,3)-graph.data(2,3)-graph.data(3,3)-graph.data(4,3) graph.drawchart(false) end sub </pre>	



Sno	Property	Description
17	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onchange=callchart end create create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal sub callchart graph.initialize graph.axisborder=1 graph.chartborder=1 graph.bgcolor=15461355 graph.fgcolor=65535 graph.plotareacolor=16777215 graph.gridcolor=255 graph.colors(1)=16764671 graph.colors(2)=16030700 graph.colors(3)=15335658 graph.colors(4)=11010216 graph.colors(5)=0 graph.bw=0:graph.dolegend=1 graph.xaxis.color=255:graph.yaxis.color=655243 graph.xaxis.div=20:graph.yaxis.div=20 graph.charttype=ctbar:graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 </pre>	<p>XAXIS.Color=n% YAXIS.Color=n%</p> <p>These two properties will set the color of the X and Y lines that forms the bases of the chart. N% represents the color code.</p> <p>XAXIS.Div=t% YAXIS.Div=t%</p> <p>These property settings determine the number of divisions on the axis. The default number is 10. If you go higher than 10, the more tics will be visible. The XAxis does not really have such a great influence unless your values are displayed on the XAXIS.</p>



Sno	Property	Description
	<pre> redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data(1,1)=8500:graph.data(2,1)=1250 graph.data(3,1)=3200:graph.data(4,1)=graph.data(1,1)*0.14 graph.data(5,1)=graph.data(1,1)-graph.data(2,1)-graph.data(3,1)-graph.data(4,1) graph.data(1,2)=7500:graph.data(2,2)=1050 graph.data(3,2)=3100:graph.data(4,2)=graph.data(1,2)*0.14 graph.data(5,2)=graph.data(1,2)-graph.data(2,2)-graph.data(3,2)-graph.data(4,2) graph.data(1,3)=7900:graph.data(2,3)=1120 graph.data(3,3)=3000:graph.data(4,3)=graph.data(1,3)*0.14 graph.data(5,3)=graph.data(1,3)-graph.data(2,3)-graph.data(3,3)-graph.data(4,3) graph.drawchart{false} end sub </pre>	
18	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onChange=callchart end create create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1 graph.bgcolor=15461355:graph.fgcolor=65535 graph.plotareacolor=16777215 </pre>	<p>XAXIS.DRAWZERO=0 XAXIS.DRAWZERO=1 XAXIS.zerocolor=n%</p> <p>YAXIS.DRAWZERO=0 YAXIS.DRAWZERO=1 YAXIS.zerocolor=n%</p> <p>If you set the DRAWZERO=1, it will display values less van 0 (zero) (negative values). The zerocolor will set the color of negative valued bars. You may select either the X or Y axis.</p>



Sno	Property	Description
	<pre> graph.gridcolor=255 graph.colors(1)=16764671:graph.colors(2)=16030700 graph.colors(3)=15335658:graph.colors(4)=11010216 graph.colors(5)=0 graph.xaxis.drawzero=1:graph.xaxis.zerocolor=255 graph.bw=0:graph.dolegend=1 graph.xaxis.color=255:graph.yaxis.color=655243 graph.xaxis.div=20:graph.yaxis.div=20 graph.charttype=ctbar:graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data(1,1)=8500:graph.data(2,1)=1250 graph.data(3,1)=3200:graph.data(4,1)=graph.data(1,1)*0.14 graph.data(5,1)=graph.data(1,1)-graph.data(2,1)-graph.data(3,1)-graph.data(4,1) graph.data(1,2)=7500:graph.data(2,2)=1050 graph.data(3,2)=-120:graph.data(4,2)=graph.data(1,2)*0.14 graph.data(5,2)=graph.data(1,2)-graph.data(2,2)-graph.data(3,2)-graph.data(4,2) graph.data(1,3)=7900:graph.data(2,3)=1120 graph.data(3,3)=3000:graph.data(4,3)=graph.data(1,3)*0.14 graph.data(5,3)=graph.data(1,3)-graph.data(2,3)-graph.data(3,3)-graph.data(4,3) graph.drawchart(false) end sub </pre>	
19	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onchange=callchart end create create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 </pre>	<p>XAxis.Grid=t% YAxis.Grid=t% XAxisLabel=t% YAxisLabel=t%</p> <p>The grid property will determine if (pending either X or Y) the grid must be displayed (=1 true) or (=0 false). Labeled will determine if the name of the X or Y names must be displayed.</p> <p>XAxis.Ticks=t% YAxis.Ticks=t% XAxis.Mnrtics=t% YAxis.Mnrtics=t%</p> <p>This will determine if the ticks (main) and minor ticks must be displayed (=1 true) or (=0 false). The value of t% may be either 0 or 1.</p>



Sno	Property	Description
	<pre> onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1 graph.bgcolor=15461355:graph.fgcolor=65535 graph.plotareacolor=16777215 graph.gridcolor=255 graph.colors(1)=16764671:graph.colors(2)=16030700 graph.colors(3)=15335658:graph.colors(4)=11010216 graph.colors(5)=0 graph.xaxis.drawzero=1 graph.xaxis.zerocolor=255 graph.bw=0:graph.dolegend=1 graph.xaxis.color=255:graph.yaxis.color=655243 graph.xaxis.div=20:graph.yaxis.div=20 graph.xaxis.grid=1:graph.yaxis.grid=1 graph.xaxis.labeled=1:graph.yaxis.labeled=1 graph.xaxis.tics=1:graph.yaxis.tics=1 graph.xaxis.mnrtics=0:graph.yaxis.mnrtics=1 graph.charttype=ctbar:graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data(1,1)=8500:graph.data(2,1)=1250 graph.data(3,1)=3200:graph.data(4,1)=graph.data(1,1)*0.14 graph.data(5,1)=graph.data(1,1)-graph.data(2,1)-graph.data(3,1)-graph.data(4,1) graph.data(1,2)=7500:graph.data(2,2)=1050 graph.data(3,2)=-120:graph.data(4,2)=graph.data(1,2)*0.14 graph.data(5,2)=graph.data(1,2)-graph.data(2,2)-graph.data(3,2)-graph.data(4,2) graph.data(1,3)=7900:graph.data(2,3)=1120 graph.data(3,3)=3000:graph.data(4,3)=graph.data(1,3)*0.14 graph.data(5,3)=graph.data(1,3)-graph.data(2,3)-graph.data(3,3)-graph.data(4,3) graph.drawchart(false) end sub </pre>	



Sno	Property	Description
20	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onchange=callchart end create create startchart as qbutton left=10:top=5:caption="Draw Chart":onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1 graph.bgcolor=15461355:graph.fgcolor=65535 graph.plotareacolor=16777215 graph.gridcolor=255 graph.colors(1)=16764671:graph.colors(2)=16030700 graph.colors(3)=15335658:graph.colors(4)=11010216 graph.colors(5)=0 graph.yaxis.autoscale=0 graph.yaxis.min=-500 graph.yaxis.max=9000 graph.xaxis.drawzero=1 graph.xaxis.zerocolor=255 graph.bw=0:graph.dolegend=1 graph.xaxis.color=255:graph.yaxis.color=655243 graph.xaxis.div=20:graph.yaxis.div=20 graph.xaxis.grid=1:graph.yaxis.grid=1 graph.xaxis.labeled=1:graph.yaxis.labeled=1 graph.xaxis.tics=1:graph.yaxis.tics=1 graph.xaxis.mnrtics=0:graph.yaxis.mnrtics=1 graph.charttype=ctbar:graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked </pre>	<p>XAxis.Autoscale=t% YAxis.Autoscale=t%</p> <p>XAxis.Min=n% YAxis.Min=n% XAxis.Max=n% YAxis.Max=n%</p> <p>Autoscale will determine if the program must scale the chart automatically pending on the highest and lowest totals. (=0 false) and (=1 true).</p> <p>If you set autoscale to be off (=0) then you must set the max and min yourself.</p> <p>Remember the negative values if you allow it.</p> <p>Also remember that all settings must be done before the actual values are added to the chart.</p>



Sno	Property	Description
	<pre> graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[3,1]=3200:graph.data[4,1]=graph.data[1,1]*0.14 graph.data[5,1]=graph.data[1,1]-graph.data[2,1]-graph.data[3,1]-graph.data[4,1] graph.data[1,2]=7500:graph.data[2,2]=1050 graph.data[3,2]=-120:graph.data[4,2]=graph.data[1,2]*0.14 graph.data[5,2]=graph.data[1,2]-graph.data[2,2]-graph.data[3,2]-graph.data[4,2] graph.data[1,3]=7900:graph.data[2,3]=1120 graph.data[3,3]=3000:graph.data[4,3]=graph.data[1,3]*0.14 graph.data[5,3]=graph.data[1,3]-graph.data[2,3]-graph.data[3,3]-graph.data[4,3] graph.drawchart[false] end sub </pre>	
21	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qchart.inc> declare sub callchart dim item1 as qmenuitem dim item2 as qmenuitem dim item3 as qmenuitem item1.caption="alter headings" item2.caption="alter datal information" item3.caption="alter values [data]" CREATE Form AS QFORM Caption = "CHART":Width = 700:Height = 550:Center borderstyle=4 create sstyle as qcombobox style=3:left=450:top=500:width=200 additems "csbar","cshisto","csstacked","cspctstacked" itemindex=0:onChange=callchart end create create startchart as qbutton left=10:top=5:caption="Draw Chart":onClick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart showhint=1:hint="right click to alter info" create funct as qpopupmenu additems item1,item2,item3 end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) callchart callchart Form.ShowModal </pre>	<p>Series(n%).hatchstyles=k\$</p> <p>This will alter the fill area of each column. You may select any of the following hatch styles:</p> <ul style="list-style-type: none"> • hsHoriz ----- • hsVert • hsFdiag \\\\\\\ • hsBdiag //\\\\\\ • hsCross +++++ • hsXDiag xxxxxxx • HsSolid (solid)



Sno	Property	Description
	<pre> sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1 graph.bgcolor=15461355:graph.fgcolor=65535 graph.plotareacolor=16777215 graph.gridcolor=255 graph.colors(1)=16764671:graph.colors(2)=16030700 graph.colors(3)=15335658:graph.colors(4)=11010216 graph.colors(5)=0:graph.yaxis.autoscale=0 graph.yaxis.min=-500:graph.yaxis.max=9000 graph.xaxis.drawzero=1:graph.xaxis.zerocolor=255 graph.series(1).hatchstyle=hscross graph.series(3).hatchstyle=hsxdiag graph.bw=0:graph.dolegend=1 graph.xaxis.color=255:graph.yaxis.color=655243 graph.xaxis.div=20:graph.yaxis.div=20 graph.xaxis.grid=1:graph.yaxis.grid=1 graph.xaxis.labeled=1:graph.yaxis.labeled=1 graph.xaxis.tics=1:graph.yaxis.tics=1 graph.xaxis.mnrtics=0:graph.yaxis.mnrtics=1 graph.charttype=ctbar:graph.cursor=-21 if sstyle.itemindex=0 then graph.chartstyle=csbar if sstyle.itemindex=1 then graph.chartstyle=cshisto if sstyle.itemindex=2 then graph.chartstyle=csstacked if sstyle.itemindex=3 then graph.chartstyle=cspctstacked graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009":graph.xtitle.text="Months" graph.ytitle.text="Rand" graph.cols=5:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st Quarter" graph.labellist.additems "2nd Quarter" graph.labellist.additems "3rd Quarter" graph.labellist.additems "4th Quarter" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.legendlist.additems "Tax" graph.legendlist.additems "Profit" graph.data(1,1)=8500:graph.data(2,1)=1250 graph.data(3,1)=3200:graph.data(4,1)=graph.data(1,1)*0.14 graph.data(5,1)=graph.data(1,1)-graph.data(2,1)-graph.data(3,1)-graph.data(4,1) graph.data(1,2)=7500:graph.data(2,2)=1050 graph.data(3,2)=-120:graph.data(4,2)=graph.data(1,2)*0.14 graph.data(5,2)=graph.data(1,2)-graph.data(2,2)-graph.data(3,2)-graph.data(4,2) graph.data(1,3)=7900:graph.data(2,3)=1120 graph.data(3,3)=3000:graph.data(4,3)=graph.data(1,3)*0.14 graph.data(5,3)=graph.data(1,3)-graph.data(2,3)-graph.data(3,3)-graph.data(4,3) graph.drawchart[false] end sub </pre>	

11.4.1.1.1 Line Charts

Line charts work by the same principles as bar charts, but has lines instead of bar columns. You may selection of three line styles; CSPOINTS, CSLINES, CSBOTH. We will code a **QComboBox** to select amongst the three.



Sno	Property	Description
1	<pre> \$typecheck on #include "rapidq2.inc" #include "qchart.inc" declare sub callchart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create sstyle as qcombobox style=3:left=450:top=505:width=200 additems "cslines","cspoints","csboth" itemindex=0 onchange=callchart end create create startbtn as qbutton left=10:top=5:caption="draw chart" onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create end create testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1 graph.charttype=ctline if sstyle.item(sstyle.itemindex)="cslines" then graph.chartstyle=cslines if sstyle.item(sstyle.itemindex)="cspoints" then graph.chartstyle=cspoints if sstyle.item(sstyle.itemindex)="csboth" then graph.chartstyle=csboth graph.series(1).linewidth=1 graph.series(1).linestyle=2 graph.series(2).linewidth=1 graph.series(2).linestyle=3 graph.maintitle.text="Expenditure Plan" graph.subtitle.text="2009" graph.xtitle.text="Quarters" graph.ytitle.text="Rand" graph.cols=2:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st" graph.labellist.additems "2nd" graph.labellist.additems "3rd" graph.labellist.additems "4th" graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.data(1,1)=8500:graph.data(2,1)=1250 graph.data(1,2)=8200:graph.data(2,2)=2250 graph.data(1,3)=8400:graph.data(2,3)=1950 graph.data(1,4)=8350:graph.data(2,4)=1900 graph.drawchart{false} end sub </pre>	<p>This will activate the line chart and these lines will select the type of line chart.</p> <p>Set thickness of legend line 1. Set line style for legend line 1 * Set thickness of legend line 2. Set line style for legend line 2 *</p> <p><i>* This is only applicable if the LINEWIDTH=1 (rest are too thick to display a difference). Line styles are:</i></p> <ul style="list-style-type: none"> • 0: Solid • 1: Dashed • 2: Dotted • 3: Dash & Dot

11.4.1.1.2 Pie Charts

Pie chart will show the comparative % within a 360 degree circle. Each value relates until 100% of the circle is completed.



Take note of the following:

- You don't need the X and Y titles.
- Only make use of ROWS and not COLS (cols remain 1)
- Only make use of LEGENDLIST.
- You need to indicate the color per serie – SERIES().COLOR=n%

Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" declare sub callchart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create sstyle as qcombobox style=3:left=450:top=505:width=200 additems "cspieval":itemindex=0 onchange=callchart end create create startbtn as qbutton left=10:top=5:caption="draw chart" onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create end create testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1 graph.charttype=ctpie if sstyle.item[sstyle.itemindex]="cspieval" then graph.chartstyle=cspieval graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.cols=1:graph.rows=3:redim graph.data(graph.cols,graph.rows) graph.legendlist.additems "Income" graph.legendlist.additems "Expenses" graph.legendlist.additems "Salaries" graph.data[1,1]=8500:graph.data[1,2]=8200:graph.data[1,3]=8400 graph.SERIES[1].COLOR=255 graph.SERIES[2].COLOR=5225 graph.SERIES[3].COLOR=83723 graph.drawchart(false) end sub </pre>	<p>Activate the PIE chart and PIE style as PIE.</p> <p>Only 1 set of data permitted. Remember the color per serie.</p>

11.4.1.1.3 HILO Charts

This will display the information related to each serie on top of each other to display the difference between lowest and highest values. You may select between two types; CSANTENNA and CSHILOBOX.



Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" declare sub callchart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create sstyle as qcombobox style=3:left=450:top=505:width=200 additems "csantenna","cshilobox":itemindex=0 onchange=callchart end create create startbtn as qbutton left=10:top=5:caption="draw chart" onclick=callchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create end create testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1 graph.charttype=cthilo if sstyle.item[sstyle.itemindex]="csantenna" then graph.chartstyle=csantenna if sstyle.item[sstyle.itemindex]="cshilobox" then graph.chartstyle=cshilobox graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.xtitle.text="Quarters":graph.ytitle.text="Rand" graph.cols=2:graph.rows=4 redim graph.data[graph.cols,graph.rows] graph.labellist.additems "1st":graph.labellist.additems "2nd" graph.labellist.additems "3rd":graph.labellist.additems "4th" graph.legendlist.additems "Income":graph.legendlist.additems "Expenses" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[1,2]=8200:graph.data[2,2]=2250 graph.data[1,3]=8400:graph.data[2,3]=1950 graph.data[1,4]=8350:graph.data[2,4]=1900 graph.drawchart{false} end sub </pre>	<p>Active the HILO chart. Select the type of HILO chart.</p>



11.4.1.2 Clearing a Chart

This command will clear an entire chart of all information.

Syntax:

?.CLEARALL

Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" declare sub callchart declare sub clearchart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create sstyle as qcombobox style=3:left=450:top=505:width=200 additems "csantenna","cshilobox":itemindex=0 onchange=callchart end create create startbtn as qbutton left=10:top=5:caption="draw chart" onclick=callchart end create create clearbtn as qbutton left=100:top=5:caption="clear chart" onclick=clearchart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create end create testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1:graph.charttype=cchilo if sstyle.item(sstyle.itemindex)="csantenna" then graph.chartstyle=csantenna if sstyle.item(sstyle.itemindex)="cshilobox" then graph.chartstyle=cshilobox graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.xtitle.text="Quarters":graph.ytitle.text="Rand" graph.cols=2:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st":graph.labellist.additems "2nd" graph.labellist.additems "3rd":graph.labellist.additems "4th" graph.legendlist.additems "Income":graph.legendlist.additems "Expenses" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[1,2]=8200:graph.data[2,2]=2250 graph.data[1,3]=8400:graph.data[2,3]=1950 graph.data[1,4]=8350:graph.data[2,4]=1900 graph.drawchart(false) end sub sub clearchart graph.clearall end sub </pre>	<p>Sub program where chart will be cleared.</p> <p>Button to call sub program to clear the chart.</p> <p>Clear the GRAPH chart.</p>



11.4.1.3 Saving a Chart

This command will save the chart (only the chart as an BMP file and not the data).

Syntax:

?.SAVECHART(n%)

Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" declare sub callchart declare sub savechart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create sstyle as qcombobox style=3:left=450:top=505:width=200 additems "csantenna","cshilobox":itemindex=0 onchange=callchart end create create startbtn as qbutton left=10:top=5:caption="draw chart" onclick=callchart end create create savebtn as qbutton left=100:top=5:caption="save chart" onclick=savechart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create end create testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1:graph.charttype=cchilo if sstyle.item(sstyle.itemindex)="csantenna" then graph.chartstyle=csantenna if sstyle.item(sstyle.itemindex)="cshilobox" then graph.chartstyle=cshilobox graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.xtitle.text="Quarters":graph.ytitle.text="Rand" graph.cols=2:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st":graph.labellist.additems "2nd" graph.labellist.additems "3rd":graph.labellist.additems "4th" graph.legendlist.additems "Income":graph.legendlist.additems "Expenses" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[1,2]=8200:graph.data[2,2]=2250 graph.data[1,3]=8400:graph.data[2,3]=1950 graph.data[1,4]=8350:graph.data[2,4]=1900 graph.drawchart(false) end sub sub savechart graph.savechart(1) end sub </pre>	<p>The [1] means that the program must call the QSAVEDIALOG Box to obtain the name of the file (BMP format) to be saved. If you indicate 0 (zero) then the name will only be requested once and not every time you click on the SAVE button.</p>



11.4.1.4 Printing a Chart

This command will print the chart to the indicated printer (this will be dealt with the module regarding printers).

Syntax:

?.PRINTCHART(prn%,orient%,margin%,copies%,color%)

The **PRN%** represents the printer index of the installed printers. For now simply use **0** (zero) as I will only explain printers and using the default printer with the module regarding printers.

The **ORIENT%** will indicate to print the chart as portrait (**0**) or landscape (**1**).

The **MARGIN%** will set the page margins. Use **0** (zero) to use the printer's default settings of **-n%** for less margin size or **+n%** larger margin size).

COPIES% will indicate how many copies must be printed.

COLOR% will indicate whether to print the image in **color (1)** or **black/white (0)**.

Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" declare sub callchart declare sub savechart declare sub printchart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create sstyle as qcombobox style=3:left=450:top=505:width=200 additems "csantenna","cshilobox":itemindex=0 onchange=callchart end create create startbtn as qbutton left=10:top=5:caption="draw chart" onclick=callchart end create create printbtn as qbutton left=200:top=5:caption="print chart" onclick=printchart end create create savebtn as qbutton left=100:top=5:caption="save chart" onclick=savechart end create </pre>	



Sno	Property	Description
	<pre> create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart end create end create testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1:graph.charttype=cthilo if sstyle.item(sstyle.itemindex)="csantenna" then graph.chartstyle=csantenna if sstyle.item(sstyle.itemindex)="cshilobox" then graph.chartstyle=cshilobox graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.xtitle.text="Quarters":graph.ytitle.text="Rand" graph.cols=2:graph.rows=4 redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st":graph.labellist.additems "2nd" graph.labellist.additems "3rd":graph.labellist.additems "4th" graph.legendlist.additems "Income":graph.legendlist.additems "Expenses" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[1,2]=8200:graph.data[2,2]=2250 graph.data[1,3]=8400:graph.data[2,3]=1950 graph.data[1,4]=8350:graph.data[2,4]=1900 graph.drawchart(false) end sub sub savechart graph.savechart(1) end sub sub printchart graph.printchart(0,1,0,1,1) end sub </pre>	

11.4.1.5 OnClick Event

This will activate an event when the user clicks (mouse button) on the chart.

Syntax:

? .OnClick=subprogram\$

Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" declare sub callchart declare sub savechart declare sub printchart declare sub callsubclick create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create sstyle as qcombobox style=3:left=450:top=505:width=200 additems "csantenna","cshilobox":itemindex=0 onchange=callchart end create </pre>	



Sno	Property	Description
	<pre> create startbtn as qbutton left=10:top=5:caption="draw chart" onclick=callchart end create create printbtn as qbutton left=200:top=5:caption="print chart" onclick=printchart end create create savebtn as qbutton left=100:top=5:caption="save chart" onclick=savechart end create create graph as qchart left=5:top=5:width=680:height=500 onpaint=graph.paintchart onclick=callsubclick end create end create testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1:graph.charttype=cthilo if sstyle.item[sstyle.itemindex]="csantenna" then graph.chartstyle=csantenna if sstyle.item[sstyle.itemindex]="cshilobox" then graph.chartstyle=cshilobox graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.xtitle.text="Quarters":graph.ytitle.text="Rand" graph.cols=2:graph.rows=4 redim graph.data[graph.cols,graph.rows] graph.labellist.additems "1st":graph.labellist.additems "2nd" graph.labellist.additems "3rd":graph.labellist.additems "4th" graph.legendlist.additems "Income":graph.legendlist.additems "Expenses" graph.data[1,1]=8500:graph.data[2,1]=1250 graph.data[1,2]=8200:graph.data[2,2]=2250 graph.data[1,3]=8400:graph.data[2,3]=1950 graph.data[1,4]=8350:graph.data[2,4]=1900 graph.drawchart(false) end sub sub savechart graph.savechart(1) end sub sub printchart graph.printchart(0,1,0,1,1) end sub sub callsubclick showmessage "you clicked" end sub </pre>	

11.4.1.6 DATA BASE

Data to compile the chart will in most cases be supplied (user input) by a database such as a spreadsheet. In the following example, we will use a **GSTRINGGRID** to supply the data to compile the chart. Remember the value of data may be **.2** etc.



Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" dim i as single dim p as single declare sub callchart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create graph as qchart left=5:top=5:width=680:height=400 onpaint=graph.paintchart end create create datainfo as qstringgrid left=10:top=430:width=600:height=80 colcount=5:rowcount=4:fixedrows=1 defaultrowheight=18:defaultcolwidth=115 cell(0,1)="Provint":cell(0,2)="Income":cell(0,3)="Expenses" cell(1,0)="1st":cell(2,0)="2nd":cell(3,0)="3rd" cell(4,0)="4th":showhint=1:Hint="enter information here..." addoptions(goediting,gotabs):onkeyup=callchart end create end create callchart testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1:graph.charttype=ctbar graph.chartstyle=csbar graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.xtitle.text="Quarters":graph.ytitle.text="Rand" graph.cols=datainfo.colcount-1:graph.rows=datainfo.rowcount redim graph.data(graph.cols,graph.rows) graph.labellist.additems "1st":graph.labellist.additems "2nd" graph.labellist.additems "3rd":graph.labellist.additems "4th" graph.legendlist.additems datainfo.cell(0,1) graph.legendlist.additems datainfo.cell(0,2) graph.legendlist.additems datainfo.cell(0,3) for i = 1 to datainfo.rowcount for p = 1 to datainfo.colcount graph.data(i,p)=val(datainfo.cell(p,i)) next p next i graph.drawchart{false} end sub </pre>	<p>Create a spreadsheet.</p> <p>Enable the user to type inside it. Update the chart whenever the user presses a key (onkeyup). Refresh chart.</p> <p>Set the cols and rows the same as the spreadsheet.</p> <p>Use the values of the spreadsheet to assign to the LEGENDLIST.</p> <p>Read the entire spreadsheet and transfer info to the chart (use this coding as is – note that the chart's sheet and spreadsheet does not correspond (i,p)=(p,i))</p>

11.4.1.7 FONTS - HEADINGS

You may alter the **fonts** (size, color, name) of the headings as you like it to be. To do this you need to assign it to the respective heading (**MainFont**, **SubFont**, **LegendFont** and **AxisFont**).



Sno	Property	Description
1	<pre> \$typecheck on \$include "rapidq2.inc" \$include "qchart.inc" dim i as single dim p as single declare sub callchart create testme as qform caption="Charts":center:width=700:height=550 borderstyle=4 create graph as qchart left=5:top=5:width=680:height=400 onpaint=graph.paintchart end create create datainfo as qstringgrid left=10:top=430:width=600:height=80 colcount=5:rowcount=4:fixedrows=1 defaultrowheight=18:defaultcolwidth=115 cell(0,1)="Provit":cell(0,2)="Income":cell(0,3)="Expenses" cell(1,0)="1st":cell(2,0)="2nd":cell(3,0)="3rd" cell(4,0)="4th":showhint=1:Hint="enter information here..." addoptions(goediting,gotabs):onkeyup=callchart end create end create callchart testme.showmodal sub callchart graph.initialize graph.axisborder=1:graph.chartborder=1:graph.charttype=ctbar graph.chartstyle=csbar graph.subfont.name="arial rounded" graph.subfont.color=33023 graph.subfont.size=24 graph.maintitle.text="Expenditure Plan":graph.subtitle.text="2009" graph.xtitle.text="Quarters":graph.ytitle.text="Rand" graph.cols=datainfo.colcount-1:graph.rows=datainfo.rowcount redim graph.data(graph.cols,graph.rows) graph.labellist.addittems "1st":graph.labellist.addittems "2nd" graph.labellist.addittems "3rd":graph.labellist.addittems "4th" graph.legendlist.addittems datainfo.cell(0,1) graph.legendlist.addittems datainfo.cell(0,2) graph.legendlist.addittems datainfo.cell(0,3) for i = 1 to datainfo.rowcount for p = 1 to datainfo.colcount graph.data(i,p)=val(datainfo.cell(p,i)) next p next i graph.drawchart{false} end sub </pre>	<p>Alter the sub-heading's font [name, color and size] Each heading type must be altered individually by name - MAINFONT, SUBFONT, etc.</p>

