Property AMPMHeadings : TStrings
applies to <u>TpvlTimeEdit</u> <u>TpvldbTimeEdit</u>,<u>TpvlOvcTCTimeEdit</u>
This stringlist holds alternate captions for the AM and PM Buttons on the dropdown clock.
Only the first 2 will be used.
If ther is no coresponding entry the the defaults of AM and PM will be used.

property Alignment: TCalcAlignment
applies to TpvlCalcEdit, TdpvldbCalcEdit,TpvlOvcTCCalcEdit
This determins how the number is aligned to the edit control.
caLeft : The Number is left aligned
caRight : The Number is right aligned
caMixed :: The Number is left aligned when editing but right aligned when there is no focus.

Bug Reports

All efforts will be made to fix a bug as quickly as possible but I can only do that if it can easily be reproduced. In the event of you finding a bug, see if you can reproduce it in a simple piece of code and email me that code including the DFM file with a description of the bug. As soon as the bug is fixed you will be sent an intermediate version with the bug fix.

Email : peterv@global.co.za

property CalendarColors : TpvlGridColors

applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit

This property determins how the dropdown calendar will be colored.

property CalendarFont : TFont
applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit
This is the font that is used in the dropdown calendar.

property Date : TDateTime (Runtime)
applies to TpvlDateEdit, TpvldbDateEdit
This property allows you to set the date directly at runtime.

property Day : word
applies to TpvlDateEdit, TpvldbDateEdit
This allows you to set the day portion of the date.(It will only be loaded at runtime if LoadDate is true)

property DayHeadings : TStrings
applies to TpvlDateEdit, TpvldbDateEdit;TpvlOvcTCDateEdit
This is a list of days for the headings in the calendar.
They must start from Sunday irrespective of the StartOfWeek property

If they are not set then the value of ShortDayNames for that day will be used.

property Decimals : SmallInt
applies to <u>TpvlCalcEdit</u>,<u>TpvldbCalcEdit</u>, <u>TpvlOvcTCCalcEdit</u>
This determins how many decimals get displayed.

property DisplayFormat : TDateDisplayFormat
applies to TpvlDateEdit, TpvldbDateEdit, TpvlTimeEdit, TpvldbTimeEdit,
TpvlOvcTCDateEdit,TpvlOvcTCTimeEdit
This determins how the date/time gets displayed when the control isn't the activecontrol.
If set to dfLong it will use the windows long date/timeformat.
If set to dfShort it will use the windows short date/timeformat.
If set to dfCustom it will use the format given in DisplayFormatMask

property DisplayFormatMask : String
applies to TpvlDateEdit, TpvldbDateEdit, TpvlTimeEdit, TpvldbTimeEdit, TpvlCalcEdit, TpvldbCalcEdit, TpvlOvcTCDateEdit, TpvlOvcTCTimeEdit, TpvlOvcTCCalcEdit
This is the mask that will be used when DisplayFormat is set to dfCustom (caCustom for CalcEdits)

property DisplayFormat : TCalcDisplayFormat
applies to TpvlCalcEdit, TpvldbCalcEdit,TpvlOvcTCCalcEdit
This determins how the Number gets displayed when the control isn't the activecontrol.
If set to cfNumber it will use the %n format.
If set to cfCustom it will use the format given in DisplayFormatMask

property EditFormat : TpvlDateEditFormat

applies to TpvlDateEdit, TpvldbDateEdit, TpvlOvcTCDateEdit
This determins how the date gets displayed when the control is the activecontrol.
If set to dfShort it will use the windows short dateformat.
If set to dfCustom it will use the format given in EditFormatMask

Notes

1)Although this control handles date formats without dateseparators. The year must either be last or a 4 digit year must be specified.

e.g. YYMMDD - Invalid
      DDMMYY - valid
      YYYYMMDD - valid.

2) You may not enter a edit format that accepts text.

property EditFormatMask : String

applies to <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>, <u>TpvlOvcTCDateEdit</u>
This is the mask that will be used when <u>EditFormat</u> is set to dfCustom.

Note Although this control handles date formats without dateseparators. The year must either be last or a 4 digit year must be specified.

e.g. YYMMDD - Invalid
     DDMMYY - valid
     YYYYMMDD - valid.

Edtool - Editing components for Delphi

Edtool is a collection of 11 Different editing components for Delphi.

Because of 16 Bit windows not being able to determin which side of the selection the caret is positioned there are a few minor differences in the feel of the components in 16 Bit windows.

Note if you were using the TpvlDateEdit Components prior to version 2 see version history for important differences

Installation Instructions

Components included in Edtool :

TpvlDualSpeedButton : Derived from TSpeedbutton but registers both left and right clicks

TpvlSpeedButton : Derived from TSpeedbutton but will repeat clicks while the mouse stays down.

TpvlClock :An analogue clock component.

TpvlMoreEdit : An editbox with a button built into the right edge typically used for more information

TpvlDateEdit : A Date editbox with a dropdown calendar

TpvlCalcEdit: A Numerical editbox with a dropdown calculator

TpvlTimeEdit : A Time editbox with a dropdown clock.

TpvldbMoreEdit : A Data aware version of TpvlMoreEdit

TpvldbDateEdit: A Data aware version of TpvlDateEdit

TpvldbCalcEdit: A Data aware version of TpvlCalcEdit

TpvldbTimeEdit : A Data aware version of TpvlTimeEdit

Orpheus Links

The following 3 components are NOT part of the standard Edtool Package but can be downloaded free of charge from http://www.global.co.za/~peterv/ but because of the common properties I decided to include them in this help file.

TpvlovcTCDateEdit : A component to use TpvlDateEdit as inplace editor in TovcTable of Turbo Power Software's Orpheus Package.

TpvlovcTCCalcEdit : A component to use TpvlCalcEdit as inplace editor in TovcTable of Turbo Power Software's Orpheus Package.

TpvlovcTCTimeEdit : A component to use TpvlTimeEdit as inplace editor in TovcTable of Turbo Power Software's Orpheus Package.

property Glyph : TBitmap

applies to
TpvlMoreEdit,TpvldbMoreEdit,TpvlDateEdit,TpvldbDateEdit,TpvlCalcEdit,TpvldbCalcEdit,TpvlTimeEdit,TpvldbTimeEdit

This property determins what gets shown on the button in the box

the default is **...** for TpvlMoreEdit and TpvldbMoreEdit while it is ▼ (OBM_COMBO) for the others.

property HighlightDays : set of [Sun..Sat]
applies to TpvlDateEdit, TpvldbDateEdit, TpvlOvcTCDateEdit
These are the days that are shown in a highlight color.

Default [Sun,Sat]

Property Hour : Word

applies to TpvlTimeEdit, TpvldbTimeEdit

This allows you to set the hour portion of the time.(It will only be loaded at runtime if LoadTime is true)

How to obtain the source code

The Source code to Edtool is available directly from the author at a cost of US $10.00 for this you will receive the source to all future versions of Edtool (including intermediate bug fix releases) due to the price the source can only be distributed via the WWW.

NB Please include a note with a contact email address with all cheques.
It's often quite difficult to reconcile personal email addresses with company cheques.

The author can be contacted at

E-mail :
peterv@global.co.za

Postal Services (Snail Mail) :
P van Lonkhuyzen
PO Box 1041
Randpark Ridge
2156
South Africa

Property ImpliedCenturyStart : word

applies to TpvlDateEdit, TpvldbDateEdit

This determins how to handle the century if only a 2 digit year is supplied.

If set to 0 then the current century will be added

If set to anything else then the implied century will start at that year

e.g. if set to 1980 then the following will occur

        80 will be read as 1980

        00 will be read as 2000

        79 will be read as 2079

This has no effect if the user enters a 4 digit year.

Installation Instructions
Note if you were using the TpvlDateEdit Components prior to version 2 see <u>version history</u> for important differences

If you are using Delphi 3.xx Please first copy *.DC3 to *.DCU.
If you are using Delphi 1.xx Please first copy *.DC1 to *.DCU, *.C16 to *.DCR.

If you are using the source versions and wish to retain the old names
1) copy edtool.ocr to edtool.dcr
2) copy dbedtool.ocr dbedtool.dcr
3) edit edtool.inc and add/change the line
{.DEFINE NOPVL}
to
{$DEFINE NOPVL}

To Install the Non data-aware Components
1. Choose the Install option from the component menu.
2. Press the Add Button
3. Select EDTOOL.DCU (EDTOOL.OBJ for C++ Builder) changing the path if neccesary.
4. Press OK Twice.
5. The components are now installed onto Peter's Components tab of the component selector.

To Install the data-aware Components
1. Choose the Install option from the component menu.
2. Press the Add Button
3. Select DBEDTOOL.DCU (DBEDTOOL.OBJ for C++ Builder) changing the path if neccesary.
4. Press OK Twice.
5. The components are now installed onto Peter's Components tab of the component selector.

To Install the Component Help Delphi 1.xx/2.xx/C++ Builder
(These instructions assume that your copy of Delphi is installed in C:\DELPHI
 If not adjust the paths accordingly)
1. Copy EDTOOL.KWF to C:\DELPHI\HELP.
2. Copy EDTOOL.HLP to C:\DELPHI\BIN.
3. Run HELPINST from your delphi folder.
4. Use.FILE|OPEN to open C:\DELPHI\BIN\DELPHI.HDX.
5. Use KEYWORDS|ADD KEYWORD FILE to add C:\DELPHI\HELP\EDTOOL.KWF.
6. Use FILE|SAVE to Compile and save the new HDX file.
7. Online help is now installed.

To Install the Component Help Delphi 3.xx
(These instructions assume that your copy of Delphi is installed in C:\PROGRAM FILES\BORLAND\DELPHI 3
 If not adjust the paths accordingly)
1. Load C:\PROGRAM FILES\BORLAND\DELPHI 3\HELP\DELPHI3.CFG in the notepad
2. Add a Link statement help file to the "Third-Party Help" section of DELPHI3.CFG.
:Link :Link EdTool.hlp
3. Use FILE|SAVE to safe the new cfg file
4 Delete the hidden file DELPHI3.GID (**This is the portion Borland forgot to tell us**)
    cd "C:\PROGRAM FILES\BORLAND\DELPHI 3\HELP"
    attrib -h Delphi3.GID
    del Delphi3.GID
5. Online help is now installed.

property InvalidDays : Set of [Sun..Sat]
applies to <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>,<u>TpvlOvcTCDateEdit</u>
These are the days that can't be selected.
Default []

Function LastMinuteSeg : Integer
applies to TpvlClock
This returns the last minute that was clicked (0..59)

Function LastTime : TDateTime
applies to TpvlClock
This returns what time was clicked on last.

Function LastWithinHourHand : Boolean

applies to TpvlClock
This will return true if the last click was within the hour hand circle.

Function LastXY : TPoint

applies to <u>TpvlClock</u>

Get the last point clicked on the clock.

property LoadDate : Boolean

applies to TpvlDateEdit, TpvldbDateEdit

This determins if Day,Month,Year get loaded when the component is loaded.

Property LoadTime : Boolean

applies to TpvlTimeEdit TpvldbTimeEdit

This determins if Hour,Mins and Secs get loaded when the component is loaded

property Max : Double/TDateTime

applies to <u>TpvlCalcEdit</u>,<u>TpvldbCalcEdit</u>,<u>TpvlOvcTCCalcEdit</u> Runtime Only in <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>, <u>TpvlOvcTCDateEdit</u>

This sets the minimum alowable <u>Value</u>/<u>Date</u>

if both <u>Min</u> and Max are 0 then no restrictions apply.

property MaxDay : word
applies to <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>,<u>TpvlOvcTCDateEdit</u>
This allows you to set the day portion of the <u>Max</u> Date.

property MaxMonth : word
applies to <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>, <u>TpvlOvcTCDateEdit</u>
This allows you to set the month portion of the <u>Max</u> Date.

property MaxYear : word

applies to <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>,<u>TpvlOvcTCDateEdit</u>

This allows you to set the year portion of the <u>Max</u> Date.

property Min : Double/TDateTime
applies to <u>TpvlCalcEdit</u>,<u>TpvldbCalcEdit</u>, <u>TpvlOvcTCCalcEdit</u> Runtime Only in <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>,<u>TpvlOvcTCDateEdit</u>
This sets the minimum alowable <u>Value</u>./<u>Date</u>
if both Min and <u>Max</u> are 0 then no restrictions apply.

property MinDay : word
applies to <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>,<u>TpvlOvcTCDateEdit</u>
This allows you to set the day portion of the <u>Min</u> Date.

property MinMaxHandler : TMinMaxHandler
applies to TpvlCalcEdit,TpvldbCalcEdit, TpvlDateEdit, TpvldbDateEdit, TpvlOvcTCCalcEdit, TpvlOvcTCDateEdit
This Property determins what happens when the value falls outside the Min/Max Range.
TmmAdjust : The component will silently adjust the value.
TmmException : The Component will raise an ERangeError Exception.
TmmDialog : The Component will display a messagebox of type mtError containing a formatted form of MinMaxString.
TmmEvent : The Component will trigger an OnMinMaxError event.

property MinMaxString : String

applies to TpvlCalcEdit,TpvldbCalcEdit,TpvlDateEdit,TpvldbDateEdit, TpvlOvcTCDateEdit, TpvlOvcTCCalcEdit

This property determins what gets displayed if the value/Date falls outside Min / Max and MinMaxHandler is set TmmDialog.

In the TpvlCalcEdit controls

This is a formatting string which gets passed to the Format function with 4 float parameters in the following sequence Min, Max, Newvalue , Value for more information see the VCL help on Format Strings.

These following examples assumed that min=0 max=100 and that the user entered 300

'The value should be between %.0f and %.0f'   becomes
'The value should be between 0 and 100'

You have entered %2:f this is changed to %3:f   becomes
You have entered 300.00 this is changed to 100.00

In the TpvlDateEdit controls

This is a formatting string which gets passed to the Formatdatetime function with the attempted date as the parameter, for more information see the VCL help on FormatDateTime.

property MinMonth : word
applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit
This allows you to set the month portion of the Min Date.

property MinYear : word
applies to <u>TpvlDateEdit</u>, <u>TpvldbDateEdit</u>,<u>TpvlOvcTCDateEdit</u>
This allows you to set the year portion of the <u>Min</u> Date.

Property Mins : Word

applies to TpvlTimeEdit, TpvldbTimeEdit

This allows you to set the minutes portion of the time.(It will only be loaded at runtime if LoadTime is true)

function MinuteSegfromPoint(p : TPoint) : Integer
applies to TpvlClock
This function will return the minute (0..59) that sits on a given point

property Month : word
applies to TpvlDateEdit, TpvldbDateEdit
This allows you to set the month portion of the date (It will only be loaded at runtime if LoadDate is true).

property MonthHeading : String
applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit
This is the the string that appears on the month up and down buttons on the dropdown calendar.

If left blank **"Mth"** will be used

[Button](Read,RuntimeOnly)
[Glyph]
[SubAlign]

property NullDay : word

applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit

This allows you to set the day portion of the Null Date.(It will only be loaded at runtime if UseNullDate is true)

property NullMonth : word
applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit
This allows you to set the month portion of the Null date (It will only be loaded at runtime if UseNullDate is true).

property NullYear : word
applies to TpvlDateEdit, TpvldbDateEdit, TpvlOvcTCDateEdit
This allows you to set the year portion of the null date.(It will only be loaded at runtime if UseNullDate is true)

property OnButtonClick : TNotifyEvent
applies to TpvlMoreEdit,TpvldbMoreEdit
This event gets fired when the button of the control gets clicked using the left mouse button.

event OnDateChanged : TNotifyEvent
applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit
This event gets trigerred whenever the date property changes.
Its prefereable to use this event over the onchange event as it doesn't get triggered when you drop down
the calendar and the text changed due to the different formats.

event OnMinMaxError : TMinMaxEvent
applies to TpvlCalcEdit,TpvldbCalcEdit,TpvlOvcTCCalcEdit
event OnMinMaxError : TMinMaxDateEvent
applies to TpvlDateEdit,TpvldbDateEdit, TpvlOvcTCDateEdit
This event gets triggered if the value/Date falls outside Min / Max and MinMaxHandler is set to TmmEvent.

Parameters
Sender this is the object that triggered the event.
Newvalue : This is the value the user tried to enter
min,max : These are the current settings of min and max.
Value : This is the default new value for the component.

property OnRButtonClick : TNotifyEvent
applies to TpvlMoreEdit,TpvldbMoreEdit
This event gets fired when the button of the control gets clicked using the right mouse button.

property OnRClick:TNotifyEvent
applies to TpvlDualSpeedButton
This Event gets fired whenever the right mouse button is clicked over the control.

event OnValueChanged : TNotifyEvent
applies to TpvlCalcEdit, TpvldbCalcEdit, TpvlOvcTCCalcEdit
This event gets trigerred whenever the Value property changes.
Its prefereable to use this event over the onchange event as it doesn't get triggered when you use the
calculator and the text changed due to the partial calculations.

property OnWantForm : TWantFormEvent

applies to <u>TpvlMoreEdit</u>, <u>TpvldbCalcEdit</u>, <u>TpvlDateEdit</u>,<u>TpvldbDateEdit</u>, <u>TpvlTimeEdit</u>, <u>TpvldbTimeEdit</u>, <u>TpvlOvcTCCalcEdit</u>, <u>TpvlOvcTCDateEdit</u>, <u>TpvlOvcTCTimeEdit</u>
This event gets triggered when the button gets pressed using the left mouse button.
If you pass it back a form in Subf then that form will be shown modal and will be aligned alongside the control. The control will dispose of the form when it is released;

Note : If used with Calc,Date and Time edits the the default Calendar/Calculator or clock will be disabled, in the case of the calculator this also means that it will stop responding to /+* as well as to - if it isn't the first character.
It is also the function of the new form to update the <u>Date</u>/<u>Time</u> or <u>Value</u> property respectively

property Button : <u>TpvlcustomDualSpeedButton</u> (Runtime,Read Only)
applies to
<u>TpvlMoreEdit</u>,<u>TpvldbMoreEdit</u>,<u>TpvlDateEdit</u>,<u>TpvldbDateEdit</u>,<u>TpvlCalcEdit</u>,<u>TpvldbCalcEdit</u>,<u>TpvlTimeEdit</u>,<u>Tpvldb TimeEdit</u>
This property allows you to click the button using code.

e.g.
pvlMoreEdit1.click;

property QuickChangeType : TQuickChangeType

applies to TpvlDateEdit, TpvldbDateEdit ,TpvlTimeEdit; TpvldbTimeEdit,TpvlOvcTCDateEdit, TpvlOvcTCTimeEdit

This determins the behaviour of the + and - keys in the editing block

qcNone :   The keys have no effect
qcWhole :   The keys go to the previous/next day
qcSection :   The keys increment the section e.g   the month.
          This option uses the QuickChangeWrap property to determin what to do if the section wraps.

Notes :
1. Beware when using this option that some international forms of dates could use the - as the date separator. then the alternate decrementer will be 'M'.
2. If there is no dateseparator then qcSection will act as qcWhole.

property QuickChangeWrap : Boolean

applies to TpvlDateEdit, TpvldbDateEdit, TpvlTimeEdit; TpvldbTimeEdit, TpvlOvcTCDateEdit, TpvlOvcTCTimeEdit

This Property only has an effect when QuickChangeType has the value of qcSection.

If false then the section will start over without affecting the other sections when the section's maximum is reached.

If true it will change the value of the next section when the section's maximum is reached.

e.g. if the date is 12 Dec 1997 and the active section is the month then + will change the date to 12 Jan 1998 if his property is true while the date will become 12 Jan 1997 if this property is false.

procedure RClick

applies to TpvlDualSpeedButton
This simulates a right mouse button click on the button.

Restrictions on use

There are no restrictions placed on the use of Edtool in compiled DCU format or linked into an EXE or DLL..

The <u>source code</u> is licenced to the purchaser to use in any of his/her development but remains copyrighted to P van Lonkhuyzen and may not be distributed in to any other parties without the written permission of P van Lonkhuyzen.

If you don't wish to get the <u>source code</u> you are still encouraged to send me an email with suggestions or even just to tell me that you're using it. (That way I can show my wife that these late nights are not spent in vain) in return you will be notified of all future versions of the component.

email : peterv@global.co.za

Property Secs : Word

applies to <u>TpvlTimeEdit</u>, <u>TpvldbTimeEdit</u>

This allows you to set the Seconds portion of the time.(It will only be loaded at runtime if <u>LoadTime</u> is true)

property SeparateHourHand : Boolean
applies to TpvlTimeEdit, TpvlDbTimeEdit, TpvlOvcTCTimeEdit
If true clicking within the Hour Segment on the dropdownclock only the hour hand will move
If false the hour hand will move to the clicked spot an the minute hand will move to the correct position.

property StartOfWeek : Sun..Sat
applies to TpvlDateEdit, TpvldbDateEdit,TpvlOvcTCDateEdit
This holds the left most day in the dropdown calendar.
Default Sun

Note in versions prior to version 2.0 this was 0..6 where 0 = sunday and 6 = saturday.
Unfortunately the Delphi streaming can't handle this change and will stop loading all components on the
form. To Fix this edit the form i.e. load the DFM file into the editor and delete the line
StartOfWeek = xxx where xxx is 0..6. Save the file and all is fine again.

property SubAlign : TSubAlign;

applies to
TpvlMoreEdit,TpvldbMoreEdit,TpvlDateEdit,TpvldbDateEdit,TpvlCalcEdit,TpvldbCalcEdit,TpvlTimeEdit,Tp
vldbTimeEdit, TpvlOvcTCDateEdit, TpvlOvcTCCalcEdit, TpvlOvcTCTimeEdit
This property determins if the subform will align to the left or the right side of the component.

Default : saLeft;

TCalcAlignment =(caLeft,caRight,caMixed)

TCalcDisplayFormat = (cfnumber,cfCustom)

Class TClockStyle

This class defines the visual appearence of the clock.

Properties

BackgroundColor : TColor; The colour of the clock face **default** clBtnFace.
HandsColor : TColor; The colour of the minute and hour hands **default** clRed.
MajorColor : TColor; The colour of the major markings (1..12) **default** clWhite.
LineColor : TColor; The colour of all other lines **default** clBlack.
ShowSeconds : Boolean; Determins the visibility of the second hand **default** False.
ShowCircle : Boolean; If True a circle is drawn around the clock **default** False.
ShowMinor : Boolean; If True the minor ticks are visible default False

TDateDisplayFormat = (dfLong,dfShort,dfCustom)

OnDateChanged
OnMinMaxError
OnWantForm

<u>OnRClick</u>:

```
TMinMaxDateEvent = procedure(Sender: TObject;Newvalue,min,max : extended;var Value : Extended) of
object
```

TMinMaxhandler = (TmmAdjust,TmmException,TmmDialog,TmmEvent)

```
TQuickChangeType = (qcNone,qcWhole,qcSection);
```

TSubAlign : (saLeft,saRight)

TTimeEditFormat = (teIncludeSecs,teExcludeSecs)

```
TWantFormEvent = procedure(Sender: TObject;var Subf : Tform) of object
```

property Time : TDateTime (Runtime)
applies to <u>TpvlClock</u> ;<u>TpvlTimeEdit</u>, <u>TpvldbTimeEdit</u>
This property allows you to set the time directly at runtime.

function Timefrompoint(p : TPoint) : TDateTime
applies to TpvlClock
This will calculate at what time a point is situated.

class TpvlCalcEdit/TpvldbCalcEdit/TpvlOvcTCCalcEdit

new properties   new events

TpvlCalcEdit is a numeric editor that has a dropdown calculator.
the calculator will be invoked by pressing the button on the control or by pressing +,-,/,*

TpvlOvcTCCalcEdit
In Orpheus this component expects a Extended pointer to be passed.

OnValueChanged
OnMinMaxError
OnWantForm

Alignment
*Button (Read,RuntimeOnly)
Decimals
DisplayFormat
DisplayFormatMask
*Glyph
Min
MinMaxHandler
MinMaxString
Max
SubAlign
*Value

Not Available on TpvIOvcTCCalcEdit

Class TpvlClock

TpvlClock is a configurable component for displaying time in an analogue method.

class TpvlDateEdit/TpvldbDateEdit/TpvlOvcTCDateEdit

new properties   new events

TpvlDateEdit is a date editor with a dropdown calendar.

It also handles implied centuries so that the year 2000 can be entered as 00.

TpvlDateEdit/TpvldbDateEdit

for more information on this see ImpliedCenturyStart

TpvlOvcTCDateEdit

for more information on this see **Epoch** in your Orpheus Help.

In Orpheus this component expects a TDateTime pointer to be passed.

TpvlDateEditFormat = dfShort..dfCustom

*Button (Read,RuntimeOnly)   CalendarColors
CalendarFont   *Day
DayHeadings   *Date (Runtime)
DisplayFormat   DisplayFormatMask
EditFormat   EditFormatMask
*Glyph   HighlightDays
*ImpliedCenturyStart   InvalidDays
*LoadDate   Max
MaxDay,   MaxMonth
MaxYear   Min
MinDay   MinMonth
MinMaxHandler,   MinMaxString
MinYear,   *Month
MonthHeading   NullDay
NullMonth   NullYear
QuickChangeType   QuickChangeWrap
StartOfWeek   SubAlign
UseNullDate   *Year
YearHeading

*Not available in TpvlOvcTCDateEdit.

class TpvlDualSpeedButton

<u>New Events</u>   <u>New Methods</u>

This component is derived from TSpeedButton and all the existing properties still remain.

There is just one new event <u>OnRClick</u> which gets triggered whenever the right mouse button gets clicked on the control.

The main reason for this component's existence is that it is included in all the other components in edtool

Class TpvlGridColors

This holds the appearence properties of the dropdown calendar grid.

CalColor : This is the background color of the Calendar Grid. **Default clWhite**
HighlightColor : This is the color of days that are highlighted. **Default clRed**
InvalidColor : This is the color of days that may not be selected. **Default clBlue**
NormalColor : This is the standard color of the dates in the calendar grid. **Default clBlack**
TodayColor : This is the color of the circle around todays date if showtoday is true. **Default clRed**
ShowToday : This determins if the current system date is circled.**Default True**

Class TpvlMoreEdit/TpvldbMoreEdit

TpvlMoreEdit is a multipurpose editor that contains a button on the righthand side to denote that more information is available.

When the Button gets pressed the Onwantform Event gets fired where yo can give the editor a form to display modaly. The form will be aligned to the control. and will be destroyed when it gets released.

Class TpvlSpeedButton

This component is derived from TSpeedButton and all its properties remain unchanged.
The only change is that it will repeat clicks while the mouse stays down.

The main reason for this component's existence is that it is included on the date and time forms.

Class TpvlTimeEdit/TpvlDbTimeEdit/TpvlOvcTCTimeEdit

new properties   new events

TpvlTimeEdit is a Time editor with a dropdown clock.

The Dropdown Clock has a clickable face to change the time.

TpvlOvcTCTimeEdit

In Orpheus this component expects a TDateTime pointer to be passed.

property UseNullDate : Boolean
applies to TpvlDateEdit, TpvldbDateEdit, TpvlOvcTCDateEdit
This property allows a date to be interpreted as a null date.
The date that gets used can be set using the NullYear, NullMonth and NullDay Properties

property Value : Double
applies to TpvlCalcEdit,TpvldbCalcEdit
This contains the current value.
It must fit the restrictions of Min and Max

Version History

Ver 2.21

Added help for TpvlOvcTC????Edit Controls.

All Components.

Added 16 Bit Support.

TpvlxxDateEdit

Moved NullDate property to Public

Fixed bug where next/prev year on 29 Feb would cause an exception

Tpvlxxxxedit

Fixed bug where accessing a value/date/time of the active control before the control has a chance to execute onenter will reset the value to 0.

Ver 2.20

All TpvlxxxxEdit

Added SubAlign Property to allow positioning of subform

Moved the button property from protected into public scope to allow clicking via code.

Stopped the OnDateChanged, OnTimeChanged and OnValueChanged from being triggered when the components are being loaded.

Stopped the problem with values not being changed if read before a focus change

TpvldbDate/TimeEdit

Changed the Null behaviour in the TpvlDbDateEdit : If UseNullDate is true and a NullDate is entered then the datafield is set to null and not the psuedo null date value.

Ver 2.10

Added SeparateHourHand to change the faceclick in TpvlTimeEdit

Published OnWantForm event in TpvlTimeEdit,TPvlCalcEdit and TPvlDateEdit to allow for custom calculators,calendars etc.

Added CalColor to Calendarcolors to allow for the calendar background to be changed

Ver 2.00a

Minor change to allow the IDE break on exception to work better by preempting certain handled exceptions.

Ver 2.00

Added Support for C++Builder

Added TpvlTimeEdit and TpvldbTimeEdit

These are Time Editors with a Dropdown clock

Added TpvlClock

This is a clickable analogue clock face component.

Added TpvlspeedButton

This is a auto repeating button

TpvlCalcEdit

Added DisplayFormat and DisplayFormatMask Properties To Customise the non focused display.

Added the Alignment Property do handle the aligment of the number

TpvlDateEdit

Added the CalendarColors property to taylor the look if the dropdown calendar

Added the InvalidDays Property to exclude certain weekdays of being selected.

Added HighlightDays Property to display weekends etc.

Changed the StartofWeek property from 0..6 to Sun..Sat

Note in versions prior to version 2.0 this was 0..6 where 0 = sunday and 6 = saturday.

Unfortunately the Delphi streaming can't handle this change and will stop loading all components on the form after your first TDateEdit. To Fix this edit the form i.e. load the DFM file into the editor and delete the line StartOfWeek = xxx where xxx is 0..6. Save the file and all is fine again.

TpvldbXXX

Fixed bug where readonly would allow editing via keyboard causing a Dataset not in editing mode exception.

Ver 1.05
All Controls are now renamed to Tpvlxxxx due to conflicting names with a number of other component sets.
Source code users have the option to retain the old names by setting the {$define NOPVL} in the edtool.inc file.
TpvlCalcEdit
Fixed the bug where pressing DEL on an empty calculator would cause an access violation.

Ver 1.04
TpvlDateEdit
Disallowed dfLong in <u>EditFormat</u>
Added <u>MinMaxHandler</u>, <u>MinMaxString</u>,<u>MinDay</u>,<u>MinMonth</u>,<u>MinYear</u>,<u>Min</u>,<u>MaxDay</u>,<u>MaxMonth</u>,<u>MaxYear</u>,<u>max</u> properties and <u>OnMinMaxError</u> event to customise the handling of input range errors.
TpvlCalcEdit
Fixed problem with loading <u>min</u> & <u>max</u>
TxxxxEdit
Changed the ancestor to TCustomMaskedEdit instead of TCustomEdit.
TpvlDateEdit/TpvlCalcEdit
Published the <u>Glyph</u> property.

Ver 1.03
TpvlDateEdit
Implemented Null Dates using <u>UseNullDate</u>, <u>NullDay</u>, <u>NullMonth</u> and <u>NullYear</u> Properties

Ver 1.02
TpvlDateEdit
Fixed problem where <u>LoadDate</u> is set to true and the current month doesn't allow the value of <u>Day</u> which gets loaded before <u>Month</u>.
Added auto repeat to the buttons in the calendar dialog.
TDbXXXXEdit
Fixed problem with ReadOnly at design time when no table has been assigned or is active.

Ver 1.01
TpvlCalcEdit
Added <u>MinMaxHandler</u>, <u>MinMaxString</u> properties and <u>OnMinMaxError</u> event to customise the handling of input range errors.
TpvlDateEdit
Added <u>CalendarFont</u>, <u>DayHeadings</u>, <u>YearHeading</u>, <u>MonthHeading</u>, <u>StartOfWeek</u> properties : For dropdown calendar customisation.
Added the <u>QuickChangeType</u> and <u>QuickChangeWrap</u> properties for easy date increasing/decreasing.
Work around added for Windows 95 bug in EM_CHARFROMPOS where sometimes the wrong position gets given.
Fixed ability for no dateseparator in edit mask.
General
Fixed problem on certain systems where the stock icons are too large.

Ver 1.00
Initial Release

Function WithinHourHandfromPoint(p : TPoint):Boolean

applies to TpvlClock

This function determins if a point is within the hour hand radius from the center.

property Year : word

applies to TpvlDateEdit, TpvldbDateEdit

This allows you to set the year portion of the date.(It will only be loaded at runtime if LoadDate is true)

property YearHeading : String
applies to TpvlDateEdit, TpvldbDateEdit, TpvlOvcTCDateEdit
This is the the string that appears on the year up and down buttons on the dropdown calendar.

If left blank **"Yr"** will be used

MinuteSegfromPoint
LastMinuteSeg
LastTime
LastWithinHourHand
LastXY
Timefrompoint
WithinHourHandfromPoint

Style
Time (RunTime)

property EditFormat : TTimeEditFormat
applies to TpvlTimeEdit, TpvldbTimeEdit, TpvlOvcTCTimeEdit
This determins how the date gets displayed when the control is the activecontrol.
If set to teIncludeSecs the user will be able to edit seconds
If set to teExcludeSecs the user can't edit seconds.

```
TMinMaxEvent = procedure(Sender: TObject;Newvalue,min,max : extended;var Value : Extended) of
object;
```

[OnButtonClick](#)
[OnRButtonClick](#)
[OnWantForm](#)

event OnTimeChanged : TNotifyEvent

applies to TpvlTimeEdit, TpvldbTimeEdit,TpvlOvcTCTimeEdit
This event gets trigerred whenever the time property changes.
Its prefereable to use this event over the onchange event as it doesn't get triggered when you drop down the clock and the text changed due to the different formats.

RClick

[OnTimeChanged](#)
[OnWantForm](#)

AMPMHeadings
*Button (Read,RuntimeOnly)
DisplayFormat
DisplayFormatMask
EditFormat
*Hour
Glyph
*Mins
*LoadTime
*Secs
SeparateHourHand
SubAlign
*Time (Run-Time)
QuickChangeType
QuickChangeWrap

*Not Available on TpvlOvcTXTimeEdit