Btrieve Components for Delphi

Btrieve Components for Delphi from <u>Summit National Group</u> provides a native set of tools for Delphi which bring the object-oriented technology of Delphi together with the rapid data access, Client-Server, Navigational model of Btrieve.   All documentation is on-line and integrated with the Delphi Help system and cross-linked with both the Delphi and Component Writers Guide Help files.

<u>Source Components</u>
<u>Driver Components</u>
<u>Editing Components</u>
<u>Lookup Components</u>
<u>Miscellaneous Components</u>

See Also
<u>Purchase</u>
<u>Installation</u>

Deliverables
BTRVCMP1.DCU, BTRVCMP1.DCR, BTRVCMP2.DCU, BTRVCMP2.DCR, BTRVCMP2.RES
BTRVCOMP.HLP. BTRVCOMP.KWF

Requirements
Delphi from Borland International (408.431.1000)

Special Note: Variable Length records are not supported in the current release

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Summit National Group

<u>Btrieve Components for Delphi</u> are native Delphi components that directly access Btrieve for applications written in Delphi without replacing any Delphi functionality.

Summit National Group has been developing software for the Equipment Leasing industry since 1984. The modules available include Lease Accounting, Lease Analysis, Application Processing, General Ledger, Fixed Assets, Credit Bureau Reporting, Electronic Banking (ACH) and AVP.   All of these applications are Btrieve based and are compatible with Novell and Lantastic networks.

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GetVersion Method

Applies to
BtrvDB

Declaration
procedure GetVersion:;

Description
Gets the version of the Btrieve Engine and stores it in the member Fversion.
This is accomplished with the Btrieve GetVersion command.

TBtrvDB Component

Unit
BtrvCmp1

Parent
TComponent

Description
A TBtrvDB component is a Source Component.   TBtrvDB maintains contact with the Btrieve engine.   It also handles all non-file related functionality.   This component is always invisible.
This component starts and stops Btrieve for your Delphi application.   If Btrieve is not available, it throws an EBtrvException.

Note: TBtrvDB should only be placed on the MainForm of your application.   Only one is necessary.

TBtrvFile Component

Unit
BtrvCmp1

Parent
TComponent

Description
A TBtrvFile component is a Source Component.   TBtrvFile needs to be present on the form where a Btrieve data file is being accessed.   It handles all file related Btrieve functionality such as GetFirst, GetNextExtended, etc...   It is identified as the BtrvFile by any Btrieve Components for Delphi components that want to access the particular file.

Note: This component is always invisible.

TBtrvDriverListBox Component

Properties
Unit
BtrvCmp2

Parent
TListBox

Description
A TBtrvDriverListBox is a Driver Component.   TBtrvDriverListBox interacts with its BtrvFile so that a position in the Btrieve data file can be established and all other Editing Components on that form that have an identical BtrvFile as the TBtrvDriverListBox are reflecting the information in the record selected by the TBtrvDriverListBox.   If an item is selected with which to update all the Editing Components, and that item represents more than one record, an EBtrvException will be thrown unless the Chained property is not nil.   If the Chained property is not nil, then the new TFilter will be passed to the TBtrvDriverListBox indicated by the Chained property.

Driver Components

Driver components manage the data flow on a form.   When the a selection is made by the driver component, the BtrvFile of the Driver Component will position itself on the record that matches the selected item.   All other components on the form that have that BtrvFile will then be similarly updated with that record.

Driver Components
TBtrvDriverComboBox
TBtrvDriverListBox

Note: If the driver component is a TBtrvDriverComboBox and the application user enters a new item in the data field of the combo box, the driver component notifies its BtrvFile of a new record which then positions itself on a new, blank record.

See Also
Source Component
Editing Component
Lookup Component
Miscellaneous Component

TBtrvDriverComboBox Component

Unit
BtrvCmp2

Parent
TComboBox

Description
A TBtrvDriverComboBox is a Driver Component.   TBtrvDriverComboBox interacts with its BtrvFile so that a position in the Btrieve data file can be established and all other Editing Components on that form that have an identical BtrvFile as the TBtrvDriverComboBox are reflecting the information in the record selected by the TBtrvDriverComboBox.   If the user enters a new item in the TBtrvDriverComboBox then the BtrvFile is positioned on a new record and all the editing components associated with that BtrvFile assume their default value.   If an item is selected with which to update all the Editing Components, and that item represents more than one record, an EBtrvException will be thrown.

TBtrvLookupListBox Component

Unit
BtrvCmp2

Parent
TListBox

Description
A TBtrvLookupListBox is a Lookup Component. TBtrvLookupListBox uses two BtrvFiles, BtrvReadFile for populating the list, the BtrvFile for writing the selection of the list.
An example of its usage would be in populating the list with automobile manufacturers from a AutoManufacturer Table and having the component write the selected item into the Auto Table at the current record.   If an item is selected with which to update all the Editing Components, and that item represents more than one record, an EBtrvException will be thrown.

See Also
TBtrvLookupComboBox

TBtrvLookupComboBox Component

<u>Properties</u>
Unit
<u>BtrvCmp2</u>

Parent
<u>TComboBox</u>

Description
A TBtrvLookupComboBox is a <u>Lookup Component</u>.   TBtrvLookupListBox uses two <u>BtrvFiles</u>, <u>BtrvReadFile</u> for populating the list, the <u>BtrvFile</u> for writing the selection of the list.   When a new item is entered into TBtrvLookupComboBox, a new record is created in the BtrvReadFile.   If an item is selected with which to update all the <u>Editing Components</u>, and that item represents more than one record, an <u>EBtrvException</u> will be thrown.

See Also
<u>TBtrvLookupListBox</u>

TBtrvListBox Component

<u>Properties</u>
Unit
<u>BtrvCmp2</u>

Parent
<u>TListBox</u>

Description
A TBtrvListBox is an <u>Editing Component</u>.   TBtrvListBox allows the programmer to populate the list with values, not from a Btrieve data file and have the selected value written to the record of the <u>BtrvFile</u> of the TBtrvListBox.

TBtrvComboBox Component

<u>Properties</u>
Unit
<u>BtrvCmp2</u>

Parent
<u>TComboBox</u>

Description
A TBtrvComboBox is an <u>Editing Component</u>.   TBtrvComboBox allows the programmer to populate the list with values, not from a Btrieve data file and have the selected value written to the record of the <u>BtrvFile</u> of the TBtrvListBox.   Additional items entered into TBtrvComboBox are not stored to any Btrieve file.

See Also
<u>TBtrvListBox</u>

![icon] TBtrvCheckBox Component

Properties
Unit
BtrvCmp1

Parent
TCheckBox

Description
TBtrvCheckBox is an Editing Component.   TBtrvCheckBox reads and writes from one BtrvFile, with BtrvTrue and BtrvFalse defaulting to one character Strings, Y and N, but modifiable.

The True and False values are set to any available ConversionType and BtrvLength.   This allows the use of a True value of Pizza and a False value of Hamburger.   This could be done with an BtrvOffset of 17, BtrvLength of 9, BtrvType of dbString.   If the information being read from the database matches True, the box will be checked, otherwise the box is not checked.   If the user clicks on the CheckBox, the new True or False value will be written to the database.

See Also
TBtrvCheckBitBox

TBtrvCheckBitBox Component

Properties
Unit
BtrvCmp1

Parent
TCheckBox

Description
TBtrvCheckBitBox is an Editing Component.   TBtrvCheckBitBox reads and writes from the same BtrvFile, but uses only one bit of the byte at the Offset.   The assignments of True and False are not modifiable. This component can allow 8 True/False values to be stored in the same byte as would be used by one TBtrvCheckBox.   Multiple TBtrvCheckBitBoxes may be directed at different bits within the same byte of a record.

Values	Bit Value
True	1
False	0

TBtrvRadioButton Component

Unit
BtrvCmp1

Parent
TRadioButton

Description
TBtrvRadioButton is an Editing Component.   TBtrvRadioButton reads and writes from one BtrvFile, with True and False defaulting to Y and N, but modifiable.   All of the TBtrvRadioButtons do not have to point to the same bytes of the record.   The TBtrvRadioButton component will make sure only the appropriate TBtrvRadioButton has a True value written in the BtrvFile at any time.   This allows the use of legacy tables where three of the six radio buttons in a GroupBox all point to the same record location, but the other three each have their own position in the record.

Note: Do not use other radio buttons in the same group as a TBtrvRadioButton.   This is caused by Borlands declaration of SetChecked as protected in their VCL, which does not allow us to override it from other units when inherited.

TBtrvEdit Component

<u>Properties</u>
Unit
<u>BtrvCmp1</u>

Parent
<u>TEdit</u>

Description
TBtrvEdit is an <u>Editing Component</u>.   TBtrvEdit reads and writes from one <u>BtrvFile</u>.

TBtrvMemo Component

Properties
Unit
BtrvCmp1

Parent
TMemo

Description
TBtrvMemo is an Editing Component.   TBtrvMemo reads and writes from the same BtrvFile.

TBtrvNavigator Component

[Properties](#)
Unit
[BtrvCmp1](#)

Parent
[TDBNavigator](#)

Description
TBtrvNavigator is a [Miscellaneous Component](#),   TBtrvNavigator is a set of buttons that allow First, Previous, Next, Last, Insert, and Delete methods to be accessed from the [BtrvFile](#) of the component.

Methods

AbortTransaction
BeginTransaction
CreateFile
EndTransaction
ExecBtrvFunction
GetDirectory
GetVersion
Reset
SetDirectory
Stop

Properties

SerialNumber

SerialNumber Property

Applies to
<u>TBtrvDB</u> component

Declaration
property SerialNumber: LongInt;

Description
The SerialNumber Property is a read-only value that validates your license of <u>Btrieve Components for Delphi</u>.   When contacting <u>Summit National Group</u> for support or inquiries about customizations, this SerialNumber will identify you as a valid licensee.

Methods

Close
Delete
GetDirect
GetEqual
GetFirst
GetGreaterThan
GetGreaterThanOrEqual
GetLast
GetLessThan
GetLessThanOrEqual
GetNext
GetNextExtended
GetPosition
GetPrevious
GetPreviousExtended
Insert
Open
SendNewData
Stat
StatForCreate
Unlock
Update
UpdateComponents

Open Method

Applies to
TBtrvFile

Declaration
procedure Open(BtrvOwnerName:PChar;AccessMode:AccessModeType);

Parameters
AccessModeType

Description
The Open method makes a Btrieve file available to access.   It opens the Btrieve File listed in the DataFile property at the DataPath location.   Identical to Btrieve Open.

Close Method

Applies to
<u>TBtrvFile</u>

Declaration
procedure Close;

Description
The Close method closes an open Btrieve file, releases all locks, and flushes all buffers.   It closes the Btrieve File associated with the TBtrvFile.

GetDirectory Method

Applies to
BtrvDB

Declaration
function GetDirectory(KeyNumber:Integer):string;

Description
This is the Btrieve Get Directory command. KeyNumber   is the number that should normally be specified in the Key Number parameter i.e. 1 for A, 2 for B etc. .

See Also
SetDirectory

SetDirectory Method

Applies to
BtrvDB

Declaration
procedure SetDirectory(FileName:string);

Description
Sets the directory Btrieve is currently using.

See Also
GetDirectory

Reset Method
Applies to
BtrvDB

Declaration
function Reset;

Description
Executes the Btrieve Reset function.   Releases all Btrieve Files.

Stop Method

Applies to
BtrvDB

Declaration
function Stop;

Description
Executes the Btrieve Stop function.   Releases all Btrieve Files.

AbortTransaction Method

Applies to
BtrvDB

Declaration
procedure AbortTransaction;

Description
Executes the Btrieve AbortTransaction function.

BeginTransaction Method

Applies to
BtrvDB

Declaration
procedure BeginTransaction;

Description
Executes the Btrieve BeginTransaction function.

EndTransaction Method

Applies to
BtrvDB

Declaration
procedure EndTransaction;

Description
Executes the Btrieve EndTransaction function.

Properties

Member

RecordBuffer

Properties

AccessMode
AutoWrite
DataExtension
DataFile
DataPath
DoKey
DoLocking
KeyNumber
LockingLevel
BtrvOwner

ExecBtrvFunction Method

Applies to
TBtrvDB

Declaration
procedure ExecBtrvFunction(OpCode: Integer, var PositionBlock: PositionType, DataBuffer:
-TBtrvStream, KeyBuffer: TBtrvStream, KeyNumber: Integer);

Parameters
OpCode
PositionBlock
DataBuffer
KeyBuffer
KeyNumber

Description
Executes a Btrieve Function directly.

CreateFile Method

Applies to
<u>TBtrvDB</u>

Declaration
procedure CreateFile(DataBuffer:TBtrvStream;Filename:Pchar);

Description
Equivalent to the Btrieve Create command.   The data used for the create (as described in The Brieve Programmers Manual)   is written into DataBuffer. Filename is a C-string which contains the name of the file.

Suggested Use: Create a file using the Btrieve File Manager that comes with the Btrieve Developers Kit. The DataBuffer can then be read in using the TBtrvFile command StatForCreate.   One can then use the WriteStreamToFile and ReadStreamFromFile methods of TMemoryStream.

Source Component

Source components actually do the work of reading and writing to and from the Btrieve data file.

Source Components
TBtrvDB
TBtrvFile

See Also
Driver Component
Editing Component
Lookup Component
Miscellaneous Component

Editing Component

Editing components interact with the application user in updating and inserting information into the Btrieve data file for specific records.

Editing Components
TBtrvEdit
TBtrvMemo
TBtrvListBox
TBtrvComboBox
TBtrvRadioButton
TBtrvCheckBox
TBtrvCheckBitBox

See Also
Source Component
Driver Component
Lookup Component
Miscellaneous Component

Lookup Component

Lookup components read their information from one <u>BtrvFile</u> and write the selected field into a second BtrvFile.

Lookup Components
<u>TBtrvLookupListBox</u>
<u>TBtrvLookupComboBox</u>

See Also
<u>Source Component</u>
<u>Driver Component</u>
<u>Editing Component</u>
<u>Miscellaneous Component</u>

Miscellaneous Component

Miscellaneous Component
TBtrvNavigator

See Also
Source Component
Driver Component
Editing Component

Chain Property

Applies to
TBtrvDriverListBox components

Declaration
property Chain: TBtrvDriverListBox;

Description
The Chain property allows a Driver Component to send the selected item to the Chained TBtrvDriverListBox component which would then populate, using the selected item as a filter on its list. This continues until the Chain property of the TBtrvDriverListBox is nil, then the selection of an item populates the Editing Components on the form that have the same BtrvFile.

Methods

Properties

BtrvCmp1 Unit

The BtrvCmp1 unit contains declarations for the components that appear on the Btrieve page of the Component palette and their associated objects, types, and contents.

The following items are declared in the BtrvCmp1 Unit:

Components
TBtrvDB
TBtrvFile
TBtrvMemo
TBtrvEdit
TBtrvListBox
TBtrvComboBox
TBtrvRadioButton
TBtrvCheckBitBox
TBtrvCheckBox
TBtrvDriverComboBox
TBtrvDriverListBox
TBtrvLookupListBox
TBtrvLookupComboBox
TBtrvNavigator

Classes
EBtrvException
EComponentException

Types
ComparisonType
LogicType
ComStoredFieldOrGiven
AccessModeType
CurrencyType
PositionType
VersionType
ConversionType
KeyType
BtrvType

Constants
KeyBufferLength: Integer   = 255;
MaxDataBufferSize: Word   = $4000; {FC00 should work, but just to be safe}

Uses
WinTypes, WinProcs, Classes, StdCtrls, SysUtils Borland International Files
BtrvCmp2: Summit National Group, Inc. Files
BTRAPIW, BTRCONST: Btrieve Technologies, Inc. Files.

BtrvCmp2 Unit

The BtrvCmp2 unit contains declarations for the components that appear on the Btrieve page of the Component palette and their associated objects, types, and contents.

The following items are declared in the BtrvCmp2 Unit:

Components
TBtrvListBox
TBtrvComboBox
TBtrvLookupListBox
TBtrvLookupComboBox
TBtrvDriverComboBox
TBtrvDriverListBox
TBtrvNavigator

Uses
WinTypes, WinProcs, Classes, StdCtrls, SysUtils Borland International Files
BtrvCmp1: Summit National Group, Inc. Files
BTRAPIW, BTRCONST: Btrieve Technologies, Inc. Files.

Properties

Btrv1Length
Btrv1Offset
Btrv1Type
Btrv2Length
Btrv2Offset
Btrv2Type
Btrv3Length
Btrv3Offset
Btrv3Type
BtrvFile
BtrvLength
BtrvOffset
BtrvReadFile
BtrvType
Filter

Properties

Btrv1Length
Btrv1Offset
Btrv1Type
Btrv2Length
Btrv2Offset
Btrv2Type
Btrv3Length
Btrv3Offset
Btrv3Type
BtrvFile
BtrvLength
BtrvOffset
BtrvReadFile
BtrvType
Filter

Properties

Properties

Properties

[BtrvFalse](#)
[BtrvFile](#)
[BtrvLength](#)
[BtrvOffset](#)
[BtrvTrue](#)
[BtrvType](#)

Properties

[BtrvBit](#)
[BtrvFile](#)
[BtrvOffset](#)

Properties

Properties

BtrvFile
BtrvLength
BtrvOffset
BtrvType

All other properties are inherited from TEdit.

Properties

BtrvFile
BtrvLength
BtrvOffset
BtrvType

Property

BtrvFile

BtrvOffset Property

Applies to
TBtrvEdit, TBtrvMemo, TBtrvListBox, TBtrvComboBox, TBtrvRadioButton, TBtrvCheckBitBox, TBtrvCheckBox, TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property BtrvOffset: Integer;

Description
The BtrvOffset property determines at what position of the BtrvFiles current record the component will start reading and writing its information.   In the case of TBtrvLookupListBox, and TBtrvLookupComboBox, this parameter is for writing only.

BtrvLength Property

Applies to
TBtrvEdit, TBtrvMemo, TBtrvListBox, TBtrvComboBox, TBtrvRadioButton, TBtrvCheckBitBox, TBtrvCheckBox, TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property BtrvLength: Integer;

Description
The BtrvLength property determines how many positions from the Offset of the BtrvFiles current record the component will read and write its information.   In the case of TBtrvLookupListBox, and TBtrvLookupComboBox, this parameter is for writing only.

BtrvType Property

Applies to

TBtrvEdit, TBtrvMemo, TBtrvListBox, TBtrvComboBox, TBtrvRadioButton, TBtrvCheckBitBox, TBtrvCheckBox, TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property BtrvType: ConversionType;

Description
The BtrvType property determines the data conversion that occurs on the read and write of the information from the Btrieve data file and the component.   In the case of TBtrvLookupListBox, and TBtrvLookupComboBox, this parameter is for writing only.

BtrvFile Property

Applies to

TBtrvEdit, TBtrvMemo, TBtrvListBox, TBtrvComboBox, TBtrvRadioButton, TBtrvCheckBitBox, TBtrvCheckBox, TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox, TBtrvNavigator components

Declaration

property BtrvFile: TBtrvFile;

Description

The BtrvFile property determines which TBtrvFile component the component will be accessing for its data. In the case of TBtrvLookupListBox, and TBtrvLookupComboBox, this parameter is for writing only.

BtrvReadFile Property

Applies to
TBtrvLookupListBox, TBtrvLookupComboBox, components

Declaration
property BtrvReadFile: TBtrvFile;

Description
The BtrvReadFile property determines which TBtrvFile component the component will be accessing for the read of its data.

AccessMode Property

Applies to

<u>TBtrvFile</u> components

Declaration

property AccessMode: <u>AccessModeType</u>;

Description

The AccessMode property determines the type of access that the present <u>TBtrvFile</u> will be allowed.

AutoWrite Property

Applies to

<u>TBtrvFile</u> component

Declaration

property AutoWrite: Boolean;

Description

The AutoWrite property determines whether an <u>Update</u> Command is executed automatically immediately before the execution of a <u>GetFirst</u>, <u>GetNext</u>, <u>GetLast</u> or <u>GetPrevious</u>command.

DataExtension Property

Applies to

TBtrvFile components

Declaration

property DataExtension: Array[0..4] of Char;

Description

The DataExtension property is the extension of the file that TBtrvFile is accessing.

DataFile Property

Applies to

TBtrvFile components

Declaration

property DataFile: Array[0..10] of Char;

Description

The name (without extension) of the Btrieve file that TBtrvFile is accessing.

DataPath Property

Applies to

<u>TBtrvFile</u> components

Declaration

property DataPath: Array[0..242] of Char;

Description

The path of the file that <u>TBtrvFile</u>

Name Property

Applies to

Declaration
property Name: string[63];

Description
The Name property contains the name of the component.

BtrvOwner Property

Applies to
TBtrvFile

Declaration
property BtrvOwner: Array[0..8] of Char;

Description
The BtrvOwner property contains the owner of the Btrieve data file being accessed.

DataPath Property

Applies to

TBtrvFile

Declaration

property DataPath: Array[0..242] of Char;

Description

The DataPath property contains the path to the Btrieve data file being accessed and identified in the DataFile property.

EBtrvException

Parent
Exception

Description
EBtrvException is raised when Btrieve returns a non zero status message.

Properties

[Error](#)

Error Property

Applies to

Declaration

Error:**Integer;**

Description

Error contains the value of the Btrieves Status Code.

EComponentException

Property

Parent
Exception

Description
This is an exception that is raised when an inconsistency in the components is encountered.

Property

[Error](#)

Error

Applies to

EComponentException

Declaration

Error:**Integer;**

Description

Contains the <u>Component Error Number</u>

Component Error Number

Value   Description
0   Multiple TBtrvDBs are present in the application.
          Only one TBtrvDB should be present in any application, on the MainForm.
1   A BtrvField was created with a wrong integer size.
          BtrieveComponents only support integers of size 2 (short) and 4 (long).
2   A BtrvField was created with a wrong float size
          BtrieveComponents only support float types of   4(real) and 8(double).
3   DoKey done with negative Keynumber.
          Negative KeyNumbers imply a Step Operation. The Key operation only works with the Get
          operations (see Btrieve Programmers Manual).
4   No filename was specified in a TBtrvFIle.
5   BtrvOwnerName has more than 8 characters.
6   A BtrvField was not created.   This error is thrown because an illegal type is specified.
7   A value was read from the Btrieve file which was not present in the list (called from a listbox).
8   In reading a record from the data buffer returned from an extended read, a record beyond the end
          of the databuffer was read.
9   In an unchained DriverListBox or a DriverComboBox, a   record was clicked that did not have a
          unique value.

Filter Property

Applies to

TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupComboBox, TBtrvLookupListBox components

Declaration

property Filter: TFilter

Description

The Filter property stores the applicable filter for the object, if a filter is necessary.

KeyNumber Parameter

Applies to
<u>ExecBtrvFunction</u> function

Declaration
KeyNumber: Integer

Description
Identifies the current index for searching.

PositionBlock Parameter

Applies to
ExecBtrvFunction function

BtrvType
var PositionType

Description
The PositionBlock is the parameter passed to Btrieve as the Position Block.   For more information see the Btrieve Programmers Manual.

Note: The only time this parameter should ever be used is when a programmer is making direct calls to ExecBtrvFunction.   For all component calls TBtrvFile maintains its own position block.

DataBuffer Parameter

Applies to
ExecBtrvFunction function

BtrvType
TBtrvStream

Description
The memory property of the DataBuffer points to the block that is passed to Btrieve as the databuffer. For more information see the Btrieve Programmers manual.

KeyBuffer Parameter

Applies to
ExecBtrvFunction function

BtrvType
TBtrvStream

Description
The memory property of the KeyBuffer points to the block that is passed to Btrieve as the keybuffer.   For more information see the Btrieve Programmers manual.

TBtrvStream Class

<u>Methods</u>

Parent
<u>ABtrvStream</u>

Description
TBtrvStream is a derivative of TMemoryStream meant to hold data passed to and from Btrieve. Along with the standard TMemoryStream methods, TBtrvStream contains several methods which are useful in reading and writing data from Btrieve

Methods

[ReadFixedType](#)
[ReadVariableType](#)
[WriteFixedType](#)
[WriteVariableType](#)
[ReadField](#)
[WriteField](#)

ReadFixedType Method

Applies to

TBtrvStream class

Declaration

procedure ReadFixedType(var Field, Offset: Integer, FieldType: TBtrvType);

Parameters

Field

Offset

TBtrvType

Description

Reads information into Field from the RecordBuffer.

See Also

ReadVariableType

WriteFixedType

WriteVariableType

ReadField

WriteField

ReadVariableType Method

Applies to
TBtrvStream class

Declaration
procedure ReadVariableType(var Field, Offset: Integer, Length: Integer);

Parameters
Field
Offset
Length

Description
Reads information into Field from the RecordBuffer.

See Also
ReadFixedType
WriteFixedType
WriteVariableType
ReadField
WriteField

WriteFixedType Method

Applies to
TBtrvStream class

Declaration
procedure WriteFixedType(var Field, Offset: Integer, FieldType: TBtrvType);

Parameters
Field
Offset
TBtrvType

Description
Places the information in Field into the RecordBuffer.

See Also
ReadFixedType
ReadVariableType
WriteVariableType
ReadField
WriteField

WriteVariableType Method

Applies to

TBtrvStream class

Declaration

procedure WriteVariableType(var Field, Offset: Integer, Length: Integer);

Parameters

Field

Offset

Length

Description

Places the information in Field into the RecordBuffer.

See Also

ReadFixedType

ReadVariableType

WriteFixedType

ReadField

WriteField

ReadField Method

Applies to
TBtrvStream class

Declaration
procedure ReadField(Field: TBtrvField);

Parameter
TBtrvField

Description
Reads the Field

See Also
ReadFixedType
ReadVariableType
WriteFixedType
WriteVariableType
WriteField

WriteField Method

Applies to
TBtrvStream class

Declaration
procedure WriteField(Field: TBtrvField);

Parameter
TBtrvField

Description
Writes the Field

See Also
ReadFixedType
ReadVariableType
WriteFixedType
WriteVariableType
ReadField

ComparisonType

Unit
BtrvCmp1

Values	Description
NoComp	No comparison will be used
Equal	Both values must match exactly
GreaterThan	The value being tested must have a greater value that the Comparison value
LessThan	The value being tested must have a lesser value that the Comparison value
GreaterThanEqual	The value being tested must have an equal or greater value that the Comparison value
LessThanEqual	The value being tested must have an equal or lesser value that the Comparison value

LogicType

Unit

BtrvCmp1

Values	Description
BDLast	Last
BDAnd	And
BDOr	Or

AccessModeType

Unit

BtrvCmp1

Values	**Description**
Normal	Integer 0. Normal Access Mode
Accelerated	Integer -1.
ReadOnly	Integer -2. The application can only read the file. This modes allows a file with corrupt data to be opened and the data recovered using the Step Next function.
Verify	Integer -3. Btrieve for Windows v6.15 disregards this option and opens the file using Normal.
Exclusive	Integer -4. The application has exclusive access to the file. No other application can open that file until the application closes the file.

The following are not implemented at this time.

SEFS	Integer -32. Single Engine File Sharing. This bias only works if the EnableSharingBias option is turned on in the BTI.INI file. Use this mode when you want to open a file in SEFS mode and the default file sharing mode for the workstation drive is MEFS.
MEFS	Integer -64. Multi-Engine File Sharing. This bias works only if the EnableSharingBias option is turned on in the BTI.INI file. Use this mode when you want to open a file in MEFS mode and the default file sharing mode for the workstation drive is SEFS.

CurrencyType

Unit
BtrvCmp1

Values
KeepPosition
LosePosition

KeyType
Unit
<u>BtrvCmp1</u>

Code	Values	Type
0	bdString	String
1	bdInteger	Integer
2	bdFloat	Float
3	bdDate	Date
4	bdTime	Time
5	bdDecimal	Decimal
6	bdMoney	Money
7	bdLogical	Logical
8	bdNumeric	Numeric
9	bdBFloat	BFloat
10	bdLString	LString

The following are not implemented at this time

11	bdZString	ZString
14	bdUnsignedBinary	Unsigned Binary
15	bdAutoIncrement	AutoIncrement
17	bdSignTrailingSeperate	Sign Trailing Separate

PositionType

Unit
BtrvCmp1
Applies To
ExecBtrvFunction, GetDirect, GetPosition methods

Definition
Array[0..127] of char;

Description
Memory that maintains logical positioning information for use in accessing records.
Information kept includes:

Current index path identifier
Logical Previous record pointer
Current record pointer to the most recently accessed record.
Logical Next record pointer

Note: Your application should never write to the position block, because this could result in a lost position error, other errors, or damage to the Btrieve file.

VersionType

Unit
BtrvCmp1

Definition
Array[0..14] of char;

Description
From a workstation, Version is the client-based engine version and the current requester version.
From a server, or with a specified file path in the key buffer.

BtrvTrue Property

Applies to
TBtrvCheckBox, TBtrvRadioButton components

Declaration
property BtrvTrue: String

Description
This value is used to write to the database when the Checked value is changed to True. In order for the TBtrvCheckBox Checked property to be set to True, this string **must** match the information being read through BtrvOffset, BtrvLength, and BtrvType.

BtrvFalse Property

Applies to
TBtrvCheckBox, TBtrvRadioButton components

Declaration
property BtrvFalse: String

Description
This string   is used to write to the database when the Checked value is changed to False.

Example

This code segment identifies whether the error is generated by the component or Btrieve.

```
try
   BtrvFile1.GetPrevious;
except
   On ExceptionInstance:EBtrvException do
     Begin
        With ExceptionInstance do
          If BtrvError <> 0 Then MessageDlg(Btrieve Error,mtCustom,[mbOk],0);
          If ComponentError <> 0 Then MessageDlg(Component Error,mtCustom,[mbOk],0);
     End;
   End;
```

Btrieve Status Codes

Value	Description
0	Operation OK
2	I/O Error
3	File Not Opened
4	Key Value Not Found
5	Duplicate Key Value
6	Invalid Key Number
7	Different Key Number
8	Invalid Positioning
9	End of File
10	Modifiable Key Value Error
11	Invalid File Name
12	File Not Found
13	Extended File Error
14	Pre-Image Open Error
15	Pre-Image I/O Error
16	Expansion Error
17	Close Error
18	Disk Full
19	Unrecoveragle Error
20	Record Manager Inactive
21	Key Buffer Too Short
22	Data Buffer Length
23	Position Block Length
24	Page Size Error
25	Create I/O Error
26	Number of Keys
27	Invalid Key Position
28	Invalid Record Length
29	Invalid Key Length
30	Not a Btrieve File
31	File already Extended
32	Extend I/O Error
34	Invalid Extension Name
35	Directory Error
36	Transaction Error
37	Transaction is Active
38	Transaction Control File I/O Error
39	End/Abort Transaction Error
40	Transaction Max Files
41	Operation Not Allowed
42	Incomplete Accelerated Access
43	Invalid Record Address
44	Null Key Path
45	Inconsistent Key Flags
46	Access to file Denied
47	Maximum open Files
48	Invalid Alternate Sequence Definition
49	Key Type Error
50	Owner Already Set
51	Invalid Owner
52	Error Writing Cache
53	Invalid Interface

54	Variable Page Error
55	Autoincrement Error
56	Incomplete Index
57	Expanded Memory Error
58	Compression Buffer too Short
59	File Already Exists
60	Reject Count Reached
61	Work Space Too Small
62	Incorrect Description
63	Invalid Extended Insert Buffer
64	Filter Limit Reached
65	Incorrect Field Offset
74	Automatic Transaction Abort
78	Deadlock Detected
80	Conflict Error
81	Lock Error
82	Lost Position
83	Read Outside Transaction
84	Record Locked
85	File Locked
86	File Table Full
87	Handle Table Full
88	Incompatible Mode Error
90	Redirection Device Table Full
91	Server Error
92	Transaction Table Full
93	Incompatible Lock Type
94	Permission Error
95	Session No Longer Valid
96	Communications Environment Error
97	Data Message too Small
98	Internal Transaction Error

Biases

Value	Description
+50	Key-Only Operation Bias
+100	Single-Record Wait Lock Bias
+200	Single-Record NoWait Lock Bias
+300	Multiple-Record Wait Lock Bias
+400	Multiple-Record NoWait Lock Bias

Conversion Type

Values
dbShortInt, dbLargeInt, dbSingle, dbDouble, dbString, dbByte (One byte field.   Used primarily in TBtrvCheckBitBox), dbDate, dbTime, dbGraphic

Btrieve Operation Codes

Operation	Operation Code	
Abort Transaction	21	
Begin Transaction	19	
Clear Owner	30	
Close	1	
Create	14	
Create Supplemental Index	31	
Delete	4	
Drop Supplemental Index	32	
End Transaction		20
Extend	16	
Get Direct	23	
Get Directory	18	
Get Equal	5	
Get First	12	
Get Greater Than	8	
Get Greater Than Or Equal	9	
Get Last	13	
Get Less Than	10	
Get Less Than Or Equal	11	
Get Next	6	
Get Next Extended	36	
Get Position	22	
Get Previous	7	
Get Previous Extended	37	
Insert	2	
Insert Extended	40	
Reset	28	
Set Directory	17	
Set Owner	29	
Stat	15	
Step First	33	
Step Last	34	
Step Next	24	
Step Next Extended	38	
Step Previous	35	
Step Previous Extended	39	
Stop	25	
Unlock	27	
Update	3	
Version	26	

BtrvBit Property

Applies to
TBtrvCheckBitBox component

Declaration
property BtrvBit: Integer**;**

Description
BtrvBit identifies the bit of the byte at BtrvOffset that determines the value of TBtrvCheckBitBox.   A byte is made up of eight bits numbered from right to left, 0 to 7: 76543210.

During a Read:
>   If the bit is 1, then the TBtrvCheckBitBox Checked property is set to True.   If the bit is 0, then the TBtrvCheckBitBox Checked Property is set to False.

When the TBtrvCheckBitBox is toggled:
>   If TBtrvCheckBitBox.Checked is True, then the bit is set to 1, else the bit is set to 0.

BtrvAddNewItem Property

Applies to
TBtrvComboBox, TBtrvListBox components

Declaration
property BtrvAddNewItem: Boolean;

Description
BtrvAddNewItem determines whether the item being read from the BtrvFile will be automatically added to the list if it does not exist in the list.   If the value is True, then the BtrvFile value is added to the list if it is not in the list.   If the value is False, then an exception is thrown when the BtrvFile value is not in the list.

Btrieve Components for Delphi Installation

The Btrieve Components for Delphi are delivered on two disks.   The Help file is on the disk labeled Btrieve Components for Delphi Help.   Inside the sealed envelope is the disk with the components that is labeled Btrieve Components for Delphi Components.   The Help file is packaged separately from the components so that it may be reviewed before opening the envelope.   Registration of your product is done at time of purchase.

Note: Please read the label on the sealed envelope before opening the envelope.
            We recommend printing this topic before installation.

The installation process has four steps:
1. Copy the Help files.
     A. Copy BTRVCOMP.HLP to the \DELPHI\BIN directory of your Delphi installation from the Btrieve
        Components for Delphi Help Disk.
     B. Copy BTRVCOMP.KWF to the \DELPHI\HELP directory of your Delphi installation from the Btrieve
        Components for Delphi Help Disk.
2. Copying the Component files to your directory of choice.   We recommend you create a BTRVCOMP
   directory into which you place all your component files.
     A. Copy BTRVCMP1.DCU, BTRVCMP2.DCU, BTRVCMP1.DCR, BTRVCMP2.DCR,
        BTRVCMP1.RES, BTRAPIW.DCU, BTRCONST.DCU to the directory you have chosen for your
        component files from the Btrieve Components for Delphi Components Disk.
3. Integrating the Help file with the Delphi Help system. Make sure Delphi is not running during this step.
     1. Run HelpInst in the Delphi Group.
     2. File, Open \DELPHI\BIN\DELPHI.HDX
     3. Keywords, Add Keyword File \DELPHI\HELP\BTRVCOMP.KWF
     4. File, Save
     5. File, Exit
4. Adding the components to the Delphi palette.
     A. Start Delphi and choose Options, Install Components...
     B. In the Install Components Dialog Box, click on the Add button.
     C. In the Add Module Dialog Box, click on the Browse button.
     D. Change the List Files of Type combo box to show **Unit File (*.DCU)**
     E. Maneuver to the directory you have chosen previously for you Btrieve Components for Delphi and
        either double-click on BTRVCMP1.DCU or select BTRVCMP1.DCU and click on the Ok button.
     F. Verify that Btrvcmp1 is listed in the Installed Units list box.
     G. In the Install Components Dialog Box, click on the Add button.
     H. In the Add Module Dialog Box, click on the Browse button.
     I. Change the List Files of Type combo box to show **Unit File (*.DCU)**
     J. Maneuver to the directory you have chosen previously for you Btrieve Components for Delphi and
        either double-click on BTRVCMP2.DCU or select BTRVCMP2.DCU and click on the Ok button.
     K. Verify that Btrvcmp2 is listed in the Installed Units list box.
     L. Click on the OK button.   Delphi will now add the components to your palette.

Congratulations on your purchase.

GetLast Method

Applies To
TBtrvFile components

Declaration
procedure GetLast;

Description
The GetLast Method retrieves the logical last record in the current key path.   Identical to Btrieve GetLast.

GetNext Method

Applies To

TBtrvFile components

Declaration

procedure GetNext;

Description

The GetNext Method retrieves the logical next record in the current key path.   Identical to Btrieve GetNext.

DoLocking Property

Applies To
TBtrvFile components

Definition
property DoLocking: Boolean;

Description
When True, the DoLocking property will enforce the given LockingLevel upon the Btrieve file.   When False, locking will not be enforced upon the file.

Delete Method

Applies To
TBtrvFile components

Declaration
procedure Delete(PositionState:CurrencyType);

Parameter
CurrencyType

Description
The Delete Method removes the current record from the file.   Identical to Btrieve Delete.

GetEqual Method

Applies To
<u>TBtrvFile</u> components

Declaration
procedure GetEqual(EqualVal:TBtrvField);

Parameter
<u>TBtrvField</u>

Description
The GetEqual Method retrieves the first record with a key value equal to the TBtrvField.   Identical to Btrieve GetEqual.

GetFirst Method

Applies To
TBtrvFile components

Declaration
procedure GetFirst;

Description
The GetFirst Method retrieves the logical first record in the current key path.   Identical to Btrieve GetFirst.

Insert Method

Applies To

TBtrvFile components

Declaration

procedure Insert(PositionState:CurrencyType);

Parameter

CurrencyType

Description

The Insert method inserts the record in the RecordBuffer into the Btrieve file.   Identical to Btrieve Insert.

UpdateComponents Method

Applies To

<u>TBtrvFile</u> components

Declaration

procedure UpdateComponents;

Description

The UpdateComponents method calls the UpdateComponent callback function of each component that is attached to the TBtrvFile.   This method makes sure that the attached components have the correct information from the TBtrvFile.

SendNewData Method

Applies To
TBtrvFile components

Declaration
procedure SendNewData(PositionState:CurrencyType);

Parameter
CurrencyType

Description
The SendNewData method calls the SendNewData callback function of each component that is attached to the TBtrvFile.   This method makes sure that the RecordBuffer is current before any writing to the Btrieve file occurs.

GetGreaterThanOrEqual Method

Applies To
TBtrvFile components

Declaration
procedure GetGreaterThanOrEqual(Value:TBtrvField);

Parameter
TBtrvField

Description
The GetGreaterThanOrEqual Method retrieves the first record with a key value greater than or equal to the TBtrvField.   Identical to Btrieve GetGreaterOrEqual.

GetPosition Method

Applies To
TBtrvFile components

Declaration
function GetPosition:PositionType;

Return Value
PositionType

Description
The GetPosition method returns the four-byte physical address of the current record.   Identical to Btrieve GetPosition.

GetPrevious Method

Applies To
TBtrvFile components

Declaration
procedure GetPrevious;

Description
The GetPrevious Method retrieves the previous record in the current key path.   Identical to Btrieve GetPrevious.

KeyNumber Property

Applies To
TBtrvFile components

Definition
property KeyNumber: Integer;

Description
The KeyNumber property is the value of the key currently being used by TBtrvFile.   The rules of when are valid times to change this value follow Btrieves rules.

Note: For nonnegative KeyNumbers the Get version of the Btrieve command is executed. For negative KeyNumbers the Step version of the Btrieve command is executed.

GetLessThan Method

Applies To
<u>TBtrvFile</u> components

Declaration
procedure GetLessThan(Value:TBtrvField);

Parameter
<u>TBtrvField</u>

Description
The GetLessThan Method retrieves the last record with a key value less than the TBtrvField.   Identical to Btrieve GetLessThan.

LockingLevel Property

Applies To
TBtrvFile components

Definition
property LockingLevel: Biases;

Description
The LockingLevel property indicates what level of locking will be enforced upon the Btrieve file when the DoLocking property is True.

Note: If the LockingLevel is None and DoLocking is True, then any change to LockingLevel will not be enforced.

KeyBuffer

GetDirect Method

Applies To
TBtrvFile components

Declaration
procedure GetDirect(PositionState:PositionType);

Parameter
PositionType

Description
The GetDirect Method retrieves the record by its four-byte record address.   Identical to Btrieve GetDirect.

Unlock Method

Applies To
TBtrvFile components

Declaration
procedure Unlock;

Description
The Unlock method releases locks placed on records.   Identical to Btrieve Unlock.

Update Method

Applies To
TBtrvFile components

Declaration
procedure Update(PositionState:CurrencyType);

Parameter
CurrencyType

Description
The Update method overwrites the current record.   Identical to Btrieve Update.

GetPreviousExtended Method

Applies To
TBtrvFile components

Declaration
procedure GetPreviousExtended(DataBuffer:TBtrvStream);

Parameter
TBtrvStream

Description
The GetPreviousExtended Method retrieves the previous several records in the current key path starting at the current record.   Identical to Btrieve GetPreviousExtended.

GetGreaterThan Method

Applies To
TBtrvFile components

Declaration
procedure GetGreaterThan(Value:TBtrvField);

Parameter
TBtrvField

Description
The GetGreaterThan Method retrieves the first record with a key value greater than the TBtrvField. Identical to Btrieve GetGreaterThan.

GetNextExtended Method

Applies To
TBtrvFile components

Declaration
procedure GetNextExtended(DataBuffer:TBtrvStream);

Parameter
TBtrvStream

Description
The GetNextExtended method retrieves the next several records that pass an optional filter condition. Identical to Btrieve GetNextExtended.

StatForCreate Method

Applies To

TBtrvFile components

Declaration

procedure StatForCreate(DataBuffer:TFileStatStream);

Parameter

TFileStatStream

Description

The StatForCreate method creates a TBtrvFile from the DataBuffer.

RecordBuffer Member

Applies to

TBtrvFile components

Description

RecordBuffer is an instance of TBtrvStream.   RecordBuffer stores data from Btrieve functions, like the Gets, that return data.

Stat Method

Applies To
TBtrvFile components

Declaration
procedure Stat(DataBuffer:TFileStatStream);

Parameter
TFileStatStream

Description
The Stat method retrieves information about a Btrieve file.   Identical to Btrieve Stat.

GetLessThanOrEqual Method

Applies To
TBtrvFile components

Declaration
procedure GetLessThanOrEqual(Value:TBtrvField);

Parameter
TBtrvField

Description
The GetLessThan Method retrieves the last record with a key value less than or equal to the TBtrvField. Identical to Btrieve GetLessThanEqual.

DoKey Property

Applies To
TBtrvFile components

Definition
property DoKey: Boolean;

Description
When True, the DoKey property will cause Get functions to execute without returning data, moving through the file.   The KeyNumber should be positive.

Btrieve Components for Delphi Purchase Form

To: Summit National Group, Inc.   Date:_____
        230 E. Ohio Street, Suite 601
        Chicago, IL 60611

Re: Order For Btrieve Components For Delphi

I have read the description of the Btrieve Components For Delphi and have viewed the documentation which accompanies the product in the form of an on-line help file. I have determined that these tools are suitable for my purposes.

I understand that the software cannot be returned if the seal on the diskette envelope in disturbed in any way. I also understand that the product is sold as-is and that free telephone support is limited to one hour. By opening the diskette envelope I agree to be bound by the terms of the attached license agreement.

Please mail this form along with your check   to Summit National Group, Inc. or for credit card orders, you may FAX this form to 312-944-8346.

 Please send:

_____   Copies of Btrieve Components for Delphi at $395.00 each   _____
           Sales Tax (Illinois residents only at 8.00%)   _____
           Shipping and Handling (All shipments are Federal Express)   -
15.00
           Total   _____

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TFilter Class

Unit

Parent
TPersistent

Descritption
TFilter is a class which holds the data necessary to specify a Filter in a Extended operations.

Properties

FilterType
Length
Offset
ACS
Comparison
CompareTo
CheckCase
Logic
GivenValue
StoredValue

FilterType Property

Applies To

TFilter

Declaration

FilterType:KeyType;

Description

FilterType describes the type of the filter used in the getextended command. See Btrieve manual under GetNextExtended.

Length Property

Applies To

Declaration
Length:Integer;

Description
Describes the length of the field being filtered. 0 length means no filtering is done with this filter.

Offset Property

Applies To
TFilter

Declaration
Offset: Integer

Description
Describes the Offset of the field being filtered.

ACS Property

Applies To
TFilter

Declaration
ACS:Boolean

Description
ACS is set to true if ACS is used.   For more information see Btrieve manual under GetNextExtended operation.

Comparison Property
Applies To
TFilter

Declaration
Comparison:ComparisonType;

Description
Set to the type of comparison to be done in the filter.   For more information see Btrieve manual under GetNextExtended.

CompareTo Property
Applies To
TFilter

Declaration
CompareTo:ComStoredFieldOrGiven;

Description
Set to given if the field compared to is a given field.   Set to stored if the field compared to is a stored field. For more information see Btrieve manual under GetNextExtended.

CheckCase Property

Applies To
TFilter

Declaration
CheckCase:Boolean;

Description
True if the bias if the filtering is to be case sensitive.   For more information see Btrieve manual under GetNextExtended

Logic Property

Applies To
TFilter

Declaration
Logic:LogicType;

Description
Identifies the logic expresion used by the filter.   For more information see Btrieve manual under GetNextExtended.

GivenValue Property

Applies To
<u>TFilter</u>

Declaration
GivenValue:string;

Description
If <u>CompareTo</u> is set to given, then GivenValue should be set to the value of the field used.

StoredValue Property

Applies To
TFilter

Declaration
StoredValue:Word;

Description
If CompareTo is set to stored, then StoredValue should   be set to physical position of the record.

ABtrvStream Class

Unit
BtrvCmp1

Parent
TMemoryStream

Description
ABtrvStream is an extension of TMemoryStream with two new methods, Wipe and NewSize.

Methods

Wipe
NewSize

Wipe Method

Applies To
ABtrvStream

Declaration
procedure Wipe;

Description
Fills the memory with nulls.

NewSize Method

Applies To
ABtrvStream

Declaration
procedure NewSize(size:Longint);

Description
Calls SetSize and then fills the memory with nulls.

TBtrvField Class

Unit

BtrvCmp1

Parent

ABtrvStream

Description

TBtrvField is an abstract base class. It's primary purpose is to provide a type for conversions of Btrieve data to Text Data.

Methods

[Create](#)
[DataToText](#)
[Length](#)
[TextToData](#)
[NewSize](#)
[Copy](#)

Create Method

Applies to

Declaration
constructor Create(Offset:integer;Length:integer);

Description
Creates a BtrvField with offset equal to Offset and length equal to Length+1. The extra byte is allocated to hold a null for C-Strings.

DataToText Method

Applies to
TBtrvField

Declaration
function DataToText:String;virtual;abstract;

Description
Abstract method which takes the value in memory and converts it to text.

Length Method

Applies To

Declaration
function Length: Integer;

Description
Returns the length of the field.

TextToData Method

Applies To

Declaration
procedure TextToData(Data:String);virtual;abstract;

Description
Abstract method, converts Data to its binary form and stores it in the stream memory.

NewSize Method

Applies To
TBtrvField

Declaration
procedure NewSize(size:LongInt);

Description
NewSize sets the Size property to size and the length property to size - 1.

Copy Method

Applies To

TBtrvField

Declaration

function Copy:TBtrvField;virtual;abstract;

Description

Returns a copy of the BtrvField   of the same type with offset and length set to 0.

TFileStatStream Class

Unit

BtrvCmp1

Parent

TBtrvStream

Description

A class designed to hold the information necessary to create a new file.

Methods
[RecordLength](#)
[NumberKeys](#)

NumberKeys Method

Applies To

TFileStatStream

Declaration

function NumberKeys: Integer;

Description

Returns the number of keys defined in a Btrieve File.

RecordLength Method

Applies To
TBtrvFile

Declaration
function RecordLength:integer;

Description
Returns the record length of the BtrvFile.

Btrv1Offset Property

Applies to

TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration

property Btrv1Offset: Integer;

Description

The Btrv1Offset property determines at what position of the BtrvReadFiles current record the component will start reading its information.   This information will appear in the first column of the list box.

Btrv1Length Property

Applies to
TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property Btrv1Length: Integer;

Description
The Btrv1Length property determines how many positions from the Btrv1Offset of the BtrvReadFiles current record the component will read its information.   This information will appear in the first column of the list box.

Btrv1Type Property

Applies to

TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration

property Btrv1Type: ConversionType;

Description

The Btrv1Type property determines the data conversion that occurs on the read of the information from the BtrvReadFile data file.   This information will appear in the first column of the list box.

Btrv2Offset Property

Applies to

TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration

property Btrv2Offset: Integer;

Description

The Btrv2Offset property determines at what position of the BtrvReadFiles current record the component will start reading its information.   This information will appear in the second column of the list box.

Btrv2Length Property

Applies to
TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property Btrv2Length: Integer;

Description
The Btrv2Length property determines how many positions from the Btrv2Offset of the BtrvReadFiles current record the component will read its information.   This information will appear in the second column of the list box.

Btrv2Type Property

Applies to
TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property Btrv2Type: ConversionType;

Description
The Btrv2Type property determines the data conversion that occurs on the read of the information from the BtrvReadFile data file.   This information will appear in the second column of the list box.

Btrv3Offset Property

Applies to
TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property Btrv3Offset: Integer;

Description
The Btrv3Offset property determines at what position of the BtrvReadFiles current record the component will start reading its information.   This information will appear in the third column of the list box.

Btrv3Length Property

Applies to
TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property Btrv3Length: Integer;

Description
The Btrv3Length property determines how many positions from the Btrv3Offset of the BtrvReadFiles current record the component will read its information.   This information will appear in the third column of the list box.

Btrv3Type Property

Applies to
TBtrvDriverComboBox, TBtrvDriverListBox, TBtrvLookupListBox, TBtrvLookupComboBox components

Declaration
property Btrv3Type: ConversionType;

Description
The Btrv3Type property determines the data conversion that occurs on the read of the information from the BtrvReadFile data file.   This information will appear in the third column of the list box.