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1: *****
2:   Constructor Function and Procedure List of maXbox 3.9.9
3: *****
4:
5: //////////////////////////////////////
6: ref Help Extraxt of EXE Functions of maxbox3.exe BigBitBox API HEX in BOX
7: -----
8:
9: File Size of EXE: 18788864 V3.9.9.88 March 2014 To Wirth EKON/BASTA 18 2014
10: *****Now the Funclist*****
11: Funclist Function : 11300 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 7289 //6792 //6401 //4752 (4552)
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1181 //995 //777 (689 /513 /494)
16: def head:max: maXbox7: 07.02.2014 19:11:55
17: file E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt
18: file: maxbox_extract_funclist399.txt (sort function list)
19: -----
20: Funclist total Size all is: 19770! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 18710
22: ASize of EXE: 18788864 (16586240) (13511680) (13023744)
23: SHA1 Hash of maXbox 3.9.9.88: 119533C0725A9B9B2919849759AA2F6298EBFF28
24:
25: -----
26: -----
27: //////////////////////////////////////
28:
29:
30: FUNCTION Metric of Script: 256_findfunctions2_of_EXE.txt
31: FUNCTION *****Now the Funclist*****
32: function GetResStringChecked(Ident: string; const Args: array of const): string
33: function ( Index : Longint) : Integer
34: function (Command: Word; Data: Longint; var CallHelp: Boolean): Boolean
35: function _CheckAutoResult( ResultCode : HRESULT ) : HRESULT
36: function _T(Name: tbtString): Variant;
37: function ABNFToText(const AText : String) : String
38: function Abs(e : Extended) : Extended;
39: function Ackermann( const A, B : Integer) : Integer
40: function AcquireLayoutLock : Boolean
41: function ActionByName( const AName : string) : TWebActionItem
42: function ACTIVEBUFFER : PCHAR
43: function Add : TAggregate
44: function Add : TCollectionItem
45: function Add : TColumn
46: function Add : TComboExItem
47: function Add : TCookie
48: function Add : TCoolBand
49: function Add : TFavoriteLinkItem
50: function Add : TFileTypeItem
51: function Add : THeaderSection
52: function Add : THTMLTableColumn
53: function Add : TIdEmailAddressItem
54: function Add : TIdMessagePart
55: function Add : TIdUserAccount
56: function Add : TListColumn
57: function Add : TListItem
58: function Add : TStatusPanel
59: function Add : TTaskDialogBaseButtonItem
60: function Add : TWebActionItem
61: function Add : TWorkArea
62: function Add( AClass : TClass) : Integer
63: function Add( AComponent : TComponent) : Integer
64: function Add( AItem, AData : Integer) : Integer
65: function Add( AItem, AData : Pointer) : Pointer
66: function Add( AItem, AData : TObject) : TObject
67: function Add( AObject : TObject) : Integer
68: function Add( const Access, Count : Cardinal; const Offset : Int64) : Integer
69: function Add( const S : WideString) : Integer
70: function Add( Image, Mask : TBitmap) : Integer
71: function Add( Index : Longint; const Text : string) : Longint
72: function Add( Sibling : TTreeNode; const S : string) : TTreeNode
73: function Add(const S: string): Integer
74: function Add(S: string): Integer;
75: function AddAt( const Access, Count : Cardinal; const Offset : Int64; const Address: Pointer) : Integer
76: function ADDCHILD : TFIELDDEF
77: function AddChild( Index : Longint; const Text : string) : Longint
78: function AddChild( Parent : TTreeNode; const S : string) : TTreeNode
79: function AddChildFirst( Parent : TTreeNode; const S : string) : TTreeNode
80: function AddChildObject( Index : Longint; const Text : string; const Data : Pointer) : Longint
81: function AddChildObject( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
82: function AddChildObjectFirst( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
83: function ADDFIELDDEF : TFIELDDEF
84: function AddFileExtIfNecessary( AFileName, AExt : string) : string
85: function AddFirst( Sibling : TTreeNode; const S : string) : TTreeNode
86: function AddIcon( Image : TIcon) : Integer
87: function AddImage( Value : TCustomImageList; Index : Integer) : Integer
88: function ADDINDEXDEF : TINDEDEF
89: function AddItem(const Caption:String;const ImageIdx,SelectImageIdx,OverlayImagIdx,
  Indent:Int;Data:Pointer):TComboExItem

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90: Function AddItem( Item : THeaderSection; Index : Integer) : THeaderSection
91: Function AddItem( Item : TListItem; Index : Integer) : TListItem
92: Function AddItem( Item : TStatusPanel; Index : Integer) : TStatusPanel
93: Function AddMapping( const FieldName : string) : Boolean
94: Function AddMasked( Image : TBitmap; MaskColor : TColor) : Integer
95: Function AddModuleClass( AClass : TComponentClass) : TComponent
96: Function AddModuleName( const AClass : string) : TComponent
97: Function AddNode(Node,Relative: TTreeNode;const S : string;Ptr:Pointer;Method:TNodeAttachMode):TTreeNode
98: Function AddObject( const S : WideString; AObject : TObject) : Integer
99: Function AddObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
100: Function AddObject( Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
101: function AddObject(S:String;AObject:TObject):integer
102: Function AddObjectFirst( Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
103: Function AddParameter : TParameter
104: Function AddParamsSQLForDetail(Params:TParams;SQL:WideStr;Native:Bool;QuoteChar:WideString):WideString
105: Function Addr64ToAddr32(const Value: TJclAddr64): TJclAddr32;
106: Function Addr32ToAddr64(const Value: TJclAddr32): TJclAddr64;
107: function AdjustLineBreaksS(const S: string): string
108: TTextLineBreakStyle', '(tlbsLF, tlbsCRLF)
109: Function AdjustLineBreaks(const S: string; Style: TTextLineBreakStyle): string;
110: Function AllData : string
111: function AllocMemCount: integer;
112: function AllocMemSize: integer;
113: Function AllocPatternBitmap( BkColor, FgColor : TColor) : TBitmap
114: Function AllowRegKeyForEveryone( Key : HKEY; Path : string) : Boolean
115: Function AlphaComponent( const Color32 : TColor32) : Integer
116: Function AlphaSort : Boolean
117: Function AlphaSort( ARecurse : Boolean) : Boolean
118: Function AnsiCat( const x, y : AnsiString) : AnsiString
119: Function AnsiCompareFileName( S1, S2 : string) : Integer
120: function AnsiCompareFileName(const S1: string; const S2: string): Integer)
121: Function AnsiCompareStr( S1, S2 : string) : Integer
122: function AnsiCompareStr(const S1: string; const S2: string): Integer;)
123: Function AnsiCompareText( S1, S2 : string) : Integer
124: function AnsiCompareText(const S1: string; const S2: string): Integer;)
125: Function AnsiContainsStr( const AText, ASubText : string) : Boolean
126: Function AnsiContainsText( const AText, ASubText : string) : Boolean
127: Function AnsiCopy( const src : AnsiString; index, count : Integer) : AnsiString
128: Function AnsiDequotedStr( S : string; AQuote : Char) : string
129: Function AnsiEndsStr( const ASubText, AText : string) : Boolean
130: Function AnsiEndsText( const ASubText, AText : string) : Boolean
131: Function AnsiExtractQuotedStr( var Src : PChar; Quote : Char) : string
132: function AnsiExtractQuotedStr(var Src: PChar; Quote: Char): string)
133: Function AnsiIndexStr( const AText : string; const AValues : array of string) : Integer
134: Function AnsiIndexText( const AText : string; const AValues : array of string) : Integer
135: Function AnsiLastChar( S : string) : PChar
136: function AnsiLastChar(const S: string): PChar)
137: Function AnsiLeftStr( const AText : AnsiString; const ACount : Integer) : AnsiString
138: Function AnsiLowerCase( S : string) : string
139: Function AnsiLowercase(s : String) : String;
140: Function AnsiLowerCaseFileName( S : string) : string
141: Function AnsiMatchStr( const AText : string; const AValues : array of string) : Boolean
142: Function AnsiMatchText( const AText : string; const AValues : array of string) : Boolean
143: Function AnsiMidStr( const AText : AnsiString; const AStart, ACount : Integer) : AnsiString
144: Function AnsiPos( const src, sub : AnsiString) : Integer
145: Function AnsiPos( Substr, S : string) : Integer
146: function AnsiPos(const Substr: string; const S: string): Integer;)
147: Function AnsiQuotedStr( S : string; Quote : Char) : string
148: Function AnsiReplaceStr( const AText, AFromText, AToText : string) : string
149: Function AnsiReplaceText( const AText, AFromText, AToText : string) : string
150: Function AnsiResemblesText( const AText, AOther : string) : Boolean
151: Function AnsiReverseString( const AText : AnsiString) : AnsiString
152: Function AnsiRightStr( const AText : AnsiString; const ACount : Integer) : AnsiString
153: function AnsiSameCaption(const Text1: string; const Text2: string): Boolean)
154: Function AnsiSameStr( S1, S2 : string) : Boolean
155: function AnsiSameStr(const S1: string; const S2: string): Boolean)
156: Function AnsiSameText( const S1, S2 : string) : Boolean
157: Function AnsiSameText( S1, S2 : string) : Boolean
158: function AnsiSameText(const S1: string; const S2: string): Boolean)
159: Function AnsiStartsStr( const ASubText, AText : string) : Boolean
160: Function AnsiStartsText( const ASubText, AText : string) : Boolean
161: Function AnsiStrComp( S1, S2 : PChar) : Integer
162: function AnsiStrComp(S1: PChar; S2: PChar): Integer)
163: Function AnsiStrIComp( S1, S2 : PChar) : Integer
164: function AnsiStrIComp(S1: PChar; S2: PChar): Integer)
165: Function AnsiStrLastChar( P : PChar) : PChar
166: function AnsiStrLastChar(P: PChar): PChar)
167: Function AnsiStrLComp( S1, S2 : PChar; MaxLen : Cardinal) : Integer
168: Function AnsiStrLComp( S1, S2 : PChar; MaxLen : Cardinal) : Integer
169: Function AnsiStrLower( Str : PChar) : PChar
170: Function AnsiStrPos( Str, SubStr : PChar) : PChar
171: function AnsiStrPos(Str: PChar; SubStr: PChar): PChar)
172: Function AnsiStrScan(Str: PChar; Chr: Char): PChar)
173: Function AnsiStrUpper( Str : PChar) : PChar
174: Function AnsiToUtf8( const S : string) : UTF8String
175: Function AnsiToUtf8Ex( const S : string; const cp : integer) : UTF8String
176: Function AnsiUpperCase( S : string) : string
177: Function AnsiUppercase(s : String) : String;
178: Function AnsiUpperCaseFileName( S : string) : string

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179: Function ApplyUpdates(const Delta: OleVariant; MaxErrors: Integer; out ErrorCount: Integer): OleVariant
180: Function ApplyUpdates(const Delta: OleVariant; MaxErrors: Integer; out ErrorCount: Integer): OleVariant;
181: Function ApplyUpdates( MaxErrors : Integer) : Integer
182: Function ApplyUpdates1(const Delta: OleVar; MaxErrs: Int; out ErrCount: Int; var OwnerData: OleVar): OleVariant;
183: Function ArcCos( const X : Extended) : Extended
184: Function ArcCosh( const X : Extended) : Extended
185: Function ArcCot( const X : Extended) : Extended
186: Function ArcCotH( const X : Extended) : Extended
187: Function ArcCsc( const X : Extended) : Extended
188: Function ArcCscH( const X : Extended) : Extended
189: Function ArcSec( const X : Extended) : Extended
190: Function ArcSecH( const X : Extended) : Extended
191: Function ArcSin( const X : Extended) : Extended
192: Function ArcSinh( const X : Extended) : Extended
193: Function ArcTan( const X : Extended) : Extended
194: Function ArcTan2( const Y, X : Extended) : Extended
195: Function ArithmeticMean( const X : TDynDoubleArray) : Float
196: function ArrayLength: integer;
197: Function AsHex( const AValue : T4x4LongWordRecord) : string
198: Function AsHex( const AValue : T5x4LongWordRecord) : string
199: Function ASNDecLen( var Start : Integer; const Buffer : string) : Integer
200: Function ASNDecOIDItem( var Start : Integer; const Buffer : string) : Integer
201: Function ASNEncInt( Value : Integer) : string
202: Function ASNEncLen( Len : Integer) : string
203: Function ASNEncOIDItem( Value : Integer) : string
204: Function ASNEncUInt( Value : Integer) : string
205: Function ASNItem( var Start : Integer; const Buffer : string; var ValueType : Integer) : string
206: Function ASNObject( const Data : string; ASNType : Integer) : string
207: Function Assigned(I: Longint): Boolean;
208: Function AspectRatio(aWidth, aHeight: Integer): String;
209: Function AsWideString( Field : TField) : WideString
210: Function AtLeast( ACount : Integer) : Boolean
211: Function AttemptToUseSharedMemoryManager : Boolean
212: Function Authenticate : Boolean
213: Function AuthenticateUser( const AUsername, APassword : String) : Boolean
214: Function Authentication : String
215: Function BatchMove( ASource : TBDEDataSet; AMode : TBatchMode) : Longint
216: Function BcdCompare( const bcd1, bcd2 : TBcd) : Integer
217: Function BcdFromBytes( const AValue : TBytes) : TBcd
218: Function BcdPrecision( const Bcd : TBcd) : Word
219: Function BcdScale( const Bcd : TBcd) : Word
220: Function BcdToBytes( const Value : TBcd) : TBytes
221: Function BCDToCurr( const BCD : TBcd; var Curr : Currency) : Boolean
222: Function BcdToDouble( const Bcd : TBcd) : Double
223: Function BcdToInteger( const Bcd : TBcd; Truncate : Boolean) : Integer
224: Function BcdToStr( const Bcd : TBcd) : string;
225: Function BcdToStrF(const Bcd : TBcd; Format: TFloatFormat; const Precision, Digits: Integer): string
226: function beep2(dwFreq, dwDuration: integer): boolean;
227: Function BeginPeriod( const Period : Cardinal) : Boolean
228: Function BeginTrans : Integer
229: Function BeginTransaction : TDBXTransaction;
230: Function BeginTransaction1( Isolation : TDBXIsolation) : TDBXTransaction;
231: function BigMulu(aone, atwo: string): string;
232: function BigNumber(aone, atwo: string): string;
233: function BigExp(aone, atwo: string): string;
234: function BigMul(aone, atwo: string): string;
235: function BigAdd(aone, atwo: string): string;
236: function BigSub(aone, atwo: string): string;
237: function BigFactorial(aone: string): string;
238: Function BinaryToDouble( ABinary : string; DefValue : Double) : Double
239: Function BinomialCoeff( N, R : Cardinal) : Float
240: function BinominalCoefficient(n, k: Integer): string;
241: Function BinStrToInt( const ABinary : String) : Integer
242: Function BinToByte(Binary: String): Byte;
243: function BinToHex2(Binary: String): string;
244: function BinToInt(Binary: String): Integer;
245: Function BinToChar(St: String): Char;
246: Function BinToStr(ans: string): string;
247: Function BitBlt(hdcDest:HDC;nXDest,nYDest,nWidth,nHeigh:Int;hdcSrc:HDC;nXSrc,nYSrc:Int;dwRop:DWORD):Bool;
248: Function BitmapsAreIdentical( ABitmap1, ABitmap2 : TBitmap) : Boolean
249: Function BitsHighest( X : Byte) : Integer;
250: Function BitsHighest1( X : ShortInt) : Integer;
251: Function BitsHighest2( X : SmallInt) : Integer;
252: Function BitsHighest3( X : Word) : Integer;
253: Function BitsHighest4( X : Integer) : Integer;
254: Function BitsHighest5( X : Cardinal) : Integer;
255: Function BitsHighest6( X : Int64) : Integer;
256: Function BitsLowest( X : Byte) : Integer;
257: Function BitsLowest1( X : Shortint) : Integer;
258: Function BitsLowest2( X : Smallint) : Integer;
259: Function BitsLowest3( X : Word) : Integer;
260: Function BitsLowest4( X : Cardinal) : Integer;
261: Function BitsLowest5( X : Integer) : Integer;
262: Function BitsLowest6( X : Int64) : Integer;
263: Function BitsNeeded( const X : Byte) : Integer;
264: Function BitsNeeded1( const X : Word) : Integer;
265: Function BitsNeeded2( const X : Integer) : Integer;
266: Function BitsNeeded3( const X : Int64) : Integer;
267: Function BlueComponent( const Color32 : TColor32) : Integer

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268: Function BooleanToInteger( const Pb : Boolean) : Integer
269: Function BoolToStr(B: Boolean; UseBoolStrs: Boolean): string
270: Function BoolToStr1(value : boolean) : string;
271: Function booltoint( aBool : Boolean) : LongInt
272: Function inttobool( aInt : LongInt) : Boolean
273: Function Bounds( ALeft, ATop, AWidth, AHeight : Integer) : TRect
274: function Bounds(ALeft, ATop, AWidth, AHeight: Integer): TRect
275: Function BreakApart( BaseString, BreakString : string; StringList : TStringList) : TStringList
276: Function BrightColor( const Color : TColor; const Pct : Single) : TColor
277: Function BrightColorChannel( const Channel : Byte; const Pct : Single) : Byte
278: Function BufferRequest( Length : Integer) : TStream
279: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStringList) : Boolean
280: Function Buttons : PTaskDialogButton
281: Function BytesPerScanline( PixelsPerScanline, BitsPerPixel, Alignment : Longint) : Longint
282: Function BytesToCardinal( const AValue : TIdBytes; const AIndex : Integer) : Cardinal
283: Function BytesToChar( const AValue : TIdBytes; const AIndex : Integer) : Char
284: Function BytesToInt64( const AValue : TIdBytes; const AIndex : Integer) : Int64
285: Function BytesToInteger( const AValue : TIdBytes; const AIndex : Integer) : Integer
286: Function BytesToIPv6( const AValue : TIdBytes; const AIndex : Integer) : TIdIPv6Address
287: Function BytesToShort( const AValue : TIdBytes; const AIndex : Integer) : Short
288: Function BytesToString( ABytes: TIdBytes; AStartIndex: Integer; AMaxCount: Integer): string;
289: Function BytesToStr( const Value: TBytes): string;
290: Function BytesToWord( const AValue : TIdBytes; const AIndex : Integer) : Word
291: Function ByteToBin( Int: Byte): string;
292: Function ByteToCharIndex( S : string; Index : Integer) : Integer
293: function ByteToCharIndex(const S: string; Index: Integer): Integer
294: Function ByteToCharLen( S : string; MaxLen : Integer) : Integer
295: function ByteToCharLen(const S: string; MaxLen: Integer): Integer
296: Function ByteToHex( const AByte : Byte) : string
297: Function ByteToOctal( const AByte : Byte) : string
298: Function ByteType( S : string; Index : Integer) : TmbcsByteType
299: function ByteType(const S: string; Index: Integer): TmbcsByteType
300: Function CalcTitleRect( Col : TColumn; ARow : Integer; var MasterCol : TColumn) : TRect
301: Function CalculateDFAFingerprint( oStates : TList) : integer
302: function CallTerminateProcs: Boolean
303: function CANFOCUS:BOOLEAN
304: Function CanLoad( const Ext : string) : Boolean
305: Function CanParse( AWebRequest : TWebRequest) : Boolean
306: Function CanSave( const Ext : string) : Boolean
307: Function CanStart( cChar : char) : boolean
308: Function CaptureScreen : TBitmap;
309: Function CaptureScreen1( Rec : TRect) : TBitmap;
310: Function CardinalToFourChar( ACardinal : LongWord) : string
311: Function CastSoapToNative(Info: PTypeInfo; const SoapData: WideString; NatData: Pointer; IsNull: Boolean): Boolean
312: Function CastSoapToVariant1( SoapInfo : PTypeInfo; const SoapData : WideString) : Variant;
313: Function Ceil( const X : Extended) : Integer
314: Function Ceil16( X : Integer) : Integer
315: Function Ceil4( X : Integer) : Integer
316: Function Ceil8( X : Integer) : Integer
317: Function Ceiling( const X : Extended) : Integer
318: Function CellRect( ACol, ARow : Longint) : TRect
319: Function CelsiusToFahrenheit( const AValue : Double) : Double
320: Function CenterPoint( const Rect : TRect) : TPoint
321: function CenterPoint(const Rect: TRect): TPoint
322: Function ChangeFileExt( FileName, Extension : string) : string
323: function ChangeFileExt(const FileName: string; const Extension: string): string
324: Function CharInSet2( const Ch : Char; const SetOfChar : TSetOfChar) : Boolean
325: Function CharInSet( const Ch : Char; const testSet : TSysCharSet) : Boolean
326: Function CharIsInEOF( const AString : string; ACharPos : Integer) : Boolean
327: Function CharIsInSet( const AString : string; const ACharPos : Integer; const ASet : string) : Boolean
328: Function CharLength( S : string; Index : Integer) : Integer
329: Function CharRange( const AMin, AMax : Char) : string
330: function CharSetToIdent(Charset: Longint; var Ident: string): Boolean
331: Function CharToBin(vChr: Char): string;
332: Function CharNext(lpsz: PChar): PChar; stdcall;
333: Function CharToByteIndex( S : string; Index : Integer) : Integer
334: function CharToByteIndex(const S: string; Index: Integer): Integer
335: Function CharToByteLen( S : string; MaxLen : Integer) : Integer
336: function CharToByteLen(const S: string; MaxLen: Integer): Integer
337: Function CharToHex(const APrefix : string; const cc : Char) : shortstring;
338: function CharToHexStr(Value: char): string;
339: function CharToOem(ins, outs: PChar):boolean;
340: function CharToUnicode(Value: Char): string;
341: Function CheckMenuDropdown : Boolean
342: Function CheckMessages : longint
343: Function CheckOpen( Status : DBIResult) : Boolean
344: Function CheckPassword( const APassword : string) : Boolean
345: Function CheckResponse(const AResponse: SmallInt; const AAllowedResponses: array of SmallInt): SmallInt
346: Function CheckCrc32( var X : array of Byte; N : Integer; Crc : Cardinal) : Integer;
347: function CheckSynchronize(Timeout: Integer): Boolean
348: Function CheckWin32Version( AMajor : Integer; AMinor : Integer) : Boolean
349: function ChrA(const a: byte): char;
350: Function ClassIDToProgID(const ClassID: TGUID): string;
351: Function ClassNameIs(const Name: string): Boolean
352: Function ClearBit( const Value : Byte; const Bit : TBitRange) : Byte;
353: Function ClearBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
354: Function ClearBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
355: Function ClearBit3( const Value : Word; const Bit : TBitRange) : Word;
356: Function ClearBit4( const Value : Integer; const Bit : TBitRange) : Integer;

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357: Function ClearBit5( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
358: Function ClearBit6( const Value : Int64; const Bit : TBitRange) : Int64;
359: function CLIENTTOSCREEN(POINT:TPOINT):TPOINT
360: Function Clipboard : TClipboard
361: Function ClipCodes( const X, Y, MinX, MinY, MaxX, MaxY : Float) : TClipCodes;
362: Function ClipCodes1( const X, Y : Float; const ClipRect : TRect) : TClipCodes;
363: Function ClipLine( var X1, Y1, X2, Y2 : Integer; const ClipRect : TRect) : Boolean;
364: Function ClipLineToRect( var P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean
365: Function Clone( out stm : IStream) : HRESULT
366: Function CloneConnection : TSQLConnection
367: Function CloneMemoryStream( Original : TMemoryStream) : TMemoryStream
368: function CLOSEQUERY:BOOLEAN
369: Function CloseVolume( var Volume : THandle) : Boolean
370: Function CloseHandle(Handle: Integer): Integer; stdcall;
371: Function CPLApplet( hwndCPL : THandle; uMsg : DWORD; lParam1, lParam2 : Longint) : Longint
372: Function CmdLine: PChar;
373: function CmdShow: Integer;
374: Function Color32( const R, G, B : Byte; const A : Byte) : TColor32;
375: Function Color32( WinColor : TColor) : TColor32;
376: Function Color321( const Index : Byte; const Palette : TPalette32) : TColor32;
377: Function ColorAdjustLuma( clrRGB : TColor; n : Integer; fScale : Boolean) : TColor
378: Function ColorHLSToRGB( Hue, Luminance, Saturation : Word) : TColorRef
379: Function ColorToHTML( const Color : TColor) : String
380: function ColorToIdent(Color: Longint; var Ident: string): Boolean)
381: Function ColorToRGB(color: TColor): Longint
382: function ColorToString(Color: TColor): string)
383: Function ColorToWebColorName( Color : TColor) : string
384: Function ColorToWebColorStr( Color : TColor) : string
385: Function ColumnAtDepth( Col : TColumn; ADepth : Integer) : TColumn
386: Function Combination(npr, ncr: integer): extended;
387: Function CombinationInt(npr, ncr: integer): Int64;
388: Function CombineInfo( Bitmap : TCustomBitmap32) : TCombineInfo
389: Function CommaAdd( const AStr1, AStr2 : String) : string
390: Function CommercialRound( const X : Extended) : Int64
391: Function Commit( grfCommitFlags : Longint) : HRESULT
392: Function Compare( const NameExt : string) : Boolean
393: function CompareDate(const A, B: TDateTime): TValueRelationship;
394: Function CompareDateTime( const ADateTime1, ADateTime2 : TDateTime) : Integer
395: Function CompareFiles(const FN1,FN2 :string; Breathe:TNotifyEvent;BreathingSender:TObject): boolean
396: Function CompareMemoryStreams( S1, S2 : TMemoryStream) : boolean
397: Function CompareStr( S1, S2 : string) : Integer
398: Function CompareStr(const S1: string; const S2: string): Integer)
399: function CompareString(const S1: string; const S2: string): Integer)
400: Function CompareText( S1, S2 : string) : Integer
401: function CompareText(const S1: string; const S2: string): Integer)
402: Function CompareTextLike(cWildStr,cStr:string;const cWildChar:char;lCaseSensitive:boolean): boolean
403: function CompareTime(const A, B: TDateTime): TValueRelationship;
404: Function CompatibleConversionType( const AType : TConvType; const AFamily : TConvFamily) : Boolean
405: Function CompatibleConversionTypes( const AFrom, ATo : TConvType) : Boolean
406: Function ComponentTypeToString( const ComponentType : DWORD) : string
407: Function CompToCurrency( Value : Comp) : Currency
408: Function CompToDouble( Value : Comp) : Double
409: function ComputeFileCRC32(const FileName : String) : Integer;
410: function ComputeSHA256(astr: string; amode: char): string) //mode F:File, S:String
411: function ComputeSHA512(astr: string; amode: char): string) //mode F:File, S:String
412: Function Concat(s: string): string
413: Function ConnectAndGetAll : string
414: Function Connected : Boolean
415: function constrain(x, a, b: integer): integer;
416: Function ConstraintCallBack( Req : DsInfoReq; var ADataSources : DataSources) : DBIResult
417: Function ConstraintsDisabled : Boolean
418: function CONTAINSCONTROL(CONTROL:TCONTROL):BOOLEAN
419: Function ContainsState( oState : TniRegularExpressionState) : boolean
420: Function ContainsStr( const AText, ASubText : string) : Boolean
421: Function ContainsText( const AText, ASubText : string) : Boolean
422: Function ContainsTransition( oTransition : TniRegularExpressionTransition) : boolean
423: Function Content : string
424: Function ContentFromStream( Stream : TStream) : string
425: Function ContentFromString( const S : string) : string
426: Function CONTROLSDISABLED : BOOLEAN
427: Function Convert( const AValue : Double; const AFrom, ATo : TConvType) : Double;
428: Function Convert1( const AValue : Double; const AFrom1, AFrom2, ATo1, ATo2 : TConvType) : Double;
429: Function ConvertFrom( const AFrom : TConvType; const AValue : Double) : Double
430: Function ConvertReadStream( Stream : TStream; Buffer : PChar; BufSize : Integer) : Integer
431: Function ConvertTo( const AValue : Double; const ATo : TConvType) : Double
432: Function ConvertWriteStream( Stream : TStream; Buffer : PChar; BufSize : Integer) : Integer
433: Function ConvFamilyToDescription( const AFamily : TConvFamily) : string
434: Function ConvTypeToDescription( const AType : TConvType) : string
435: Function ConvTypeToFamily( const AFrom, ATo : TConvType) : TConvFamily;
436: Function ConvTypeToFamily( const AType : TConvType) : TConvFamily;
437: Function ConvAdd(const AVal:Double;const AType1:TConvType;const AVal2:Double;const AType2,
AResultType:TConvType): Double
438: Function ConvCompareValue(const AValue1:Double;const AType1:TConvType;const AValue2:Double;const
AType2:TConvType): TValueRelationship
439: Function ConvDec( const AValue : Double; const AType, AAmountType : TConvType) : Double;
440: Function ConvDec1(const AValue:Double; const AType: TConvType;const AAmount:Double;const
AAmountType:TConvType):Double;
441: Function ConvDiff(const AVal1:Double;const AType1:TConvType;const AVal2:Double;const AType2,
AResuType:TConvType):Double

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442: Function ConvInc( const AValue : Double; const AType, AAmountType : TConvType) : Double;
443: Function ConvIncl(const AValue:Double;const AType:TConvType;const AAmount:Double;const
      AAmountType:TConvType): Double;
444: Function ConvSameValue(const AValue1:Double;const AType1:TConvType;const AValue2:Double;const
      AType2:TConvType): Boolean
445: Function ConvToStr( const AValue : Double; const AType : TConvType) : string
446: Function ConvWithinNext( const AValue, ATest : Double; const AType : TConvType; const AAmount : Double;
      const AAmountType : TConvType) : Boolean
447: Function ConvWithinPrevious(const AValue,ATest:Double;const AType:TConvType; const AAmount:Double;const
      AAmountType: TConvType) : Boolean
448: Function Copy(s: AnyString; iFrom, iCount: Longint): AnyString;
449: Function CopyFile( Source, Dest : string; CanOverwrite : Boolean) : Boolean
450: Function CopyFileEx( Source, Dest : string; Flags : FILEOP_FLAGS) : Boolean
451: Function CopyFileTo( const Source, Destination : string) : Boolean
452: Function CopyFrom(Source:TStream;Count:Int64):LongInt
453: Function CopyPalette( Palette : HPALETTE) : HPALETTE
454: Function CopyTo( Length : Integer) : string
455: Function CopyTo(stm: IStream; cb: Largeint;out cbRead: Largeint;out cbWritten:Largeint): HRESULT
456: Function CopyToEOF : string
457: Function CopyToEOL : string
458: Function Cos(e : Extended) : Extended;
459: Function Cosecant( const X : Extended) : Extended
460: Function Cot( const X : Extended) : Extended
461: Function Cotan( const X : Extended) : Extended
462: Function CotH( const X : Extended) : Extended
463: Function Count : Integer
464: Function CountBitsCleared( X : Byte) : Integer;
465: Function CountBitsCleared1( X : Shortint) : Integer;
466: Function CountBitsCleared2( X : Smallint) : Integer;
467: Function CountBitsCleared3( X : Word) : Integer;
468: Function CountBitsCleared4( X : Integer) : Integer;
469: Function CountBitsCleared5( X : Cardinal) : Integer;
470: Function CountBitsCleared6( X : Int64) : Integer;
471: Function CountBitsSet( X : Byte) : Integer;
472: Function CountBitsSet1( X : Word) : Integer;
473: Function CountBitsSet2( X : Smallint) : Integer;
474: Function CountBitsSet3( X : ShortInt) : Integer;
475: Function CountBitsSet4( X : Integer) : Integer;
476: Function CountBitsSet5( X : Cardinal) : Integer;
477: Function CountBitsSet6( X : Int64) : Integer;
478: function CountGenerations(Ancestor,Descendent: TClass): Integer
479: Function Coversine( X : Float) : Float
480: function CRC32(const fileName: string): LongWord;
481: Function CREATEBLOBSTREAM( FIELD : TFIELD; MODE : TBLOBSTREAMMODE) : TSTREAM
482: Function CreateColumns : TDBGGridColumns
483: Function CreateDataLink : TGridDataLink
484: Function CreateDir( Dir : string) : Boolean
485: Function CreateDir(const Dir: string): Boolean
486: Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string) : Boolean
487: Function CreateEnvironmentBlock(const Options:TEnvironmentOptions;const AdditionalVars:TStrings): PChar
488: Function CREATEFIELD(OWNER:TCOMPONENT;PARENTFIELD:TOBJECTFIELD;const
      FIELDNAME:String;CREATECHILDREN:BOOLEAN):TFIELD
489: Function CreateGlobber( sFilespec : string) : TniRegularExpression
490: Function CreateGrayMappedBmp( Handle : HBITMAP) : HBITMAP
491: Function CreateGrayMappedRes( Instance : THandle; ResName : PChar) : HBITMAP
492: function CreateGUID(out Guid: TGUID): HRESULT)
493: Function CreateInstance( const unkOuter : IUnknown; const iid : TGUID; out obj ) : HRESULT
494: Function CreateMappedBmp( Handle : HBITMAP; const OldColors, NewColors : array of TColor) : HBITMAP
495: Function CreateMappedRes(Instance:THandle;ResName:PChar;const OldColors,NewColors:array of TColor):HBITMAP
496: Function CreateMessageDialog(const Msg:string; DlgType:TMsgDlgType; Buttons: TMsgDlgButtons) : TForm;
497: Function CreateMessageDialog1(const
      Msg:string;DlgType:TMsgDlgType;Btns:TMsgDlgBtns;DefaultBtn:TMsgDlgBtn):TForm;
498: function CreateOleObject(const ClassName: String): IDispatch;
499: Function CREATEPARAM( FLDTYPE : TFIELDTYPE; const PARAMNAME : String; PARAMTYPE : TPARAMTYPE) : TPARAM
500: Function CreateParameter(const
      Name:WideString;DataType:TDataType;Direction:TParameterDirection;Size:Integer;Value: OleVariant):TParameter
501: Function CreateLocate( DataSet : TDataSet) : TJvLocateObject
502: Function CreateMappedBmp( Handle : HBITMAP; const OldColors, NewColors : array of TColor) : HBITMAP
503: Function CreateMappedRes(Instance:THandle;ResName:PChar;const OldColors,NewColors:array of TColor):HBITMAP
504: Function CreateRecordBuffer( Length : Integer) : TRecordBuffer
505: Function CreateValueBuffer( Length : Integer) : TValueBuffer
506: Function CreatePopUpCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode) : TWinControl
507: Function CreateRecordBuffer( Length : Integer) : TRecordBuffer
508: Function CreateRotatedFont( Font : TFont; Angle : Integer) : HFONT
509: Function CreateTwoColorsBrushPattern( Color1, Color2 : TColor) : TBitmap
510: Function CreateValueBuffer( Length : Integer) : TValueBuffer
511: Function CreateHexDump( AOwner : TWinControl) : THexDump
512: Function Csc( const X : Extended) : Extended
513: Function CscH( const X : Extended) : Extended
514: function currencyDecimals: Byte
515: function currencyFormat: Byte
516: function currencyString: String
517: Function CurrentProcessId : TIdPID
518: Function CurrentReadBuffer : string
519: Function CurrentThreadId : TIdPID
520: Function CurrentYear : Word
521: Function CurrToBCD(const Curr: Currency; var BCD: TBcd; Precision: Integer; Decimals: Integer): Boolean
522: Function CurrToStr( Value : Currency) : string;
523: Function CurrToStrF( Value : Currency; FormatSettings : TFormatSettings; Digits: Integer) : string;

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524: Function CurrToStrFS(Value:Currency;Format:TFloatFormat;Digits:Integer;const
    FormatSettings:TFormatSettings):string;
525: function CursorToIdent(cursor: Longint; var Ident: string): Boolean;
526: function CursorToString(cursor: TCursor): string;
527: Function CustomSort( SortProc : TLVCompare; lParam : Longint) : Boolean
528: Function CustomSort( SortProc : TTVCompare; Data : Longint; ARecurse : Boolean) : Boolean
529: Function CycleToDeg( const Cycles : Extended) : Extended
530: Function CycleToGrad( const Cycles : Extended) : Extended
531: Function CycleToRad( const Cycles : Extended) : Extended
532: Function D2H( N : Longint; A : Byte) : string
533: Function DarkColor( const Color : TColor; const Pct : Single) : TColor
534: Function DarkColorChannel( const Channel : Byte; const Pct : Single) : Byte
535: Function DataLinkDir : string
536: Function DataRequest( Data : OleVariant) : OleVariant
537: Function DataRequest( Input : OleVariant) : OleVariant
538: Function DataToRawColumn( ACol : Integer) : Integer
539: Function Date : TDateTime
540: function Date: TDateTime;
541: Function DateIsNull( const pdtValue : TDateTime; const pdtKind : TdtKind) : Boolean
542: Function DateOf( const AValue : TDateTime) : TDateTime
543: function DateSeparator: char;
544: Function DateTimeGMTToHttpStr( const GMTValue : TDateTime) : String
545: Function DateTimeToFileDate( DateTime : TDateTime) : Integer
546: function DateTimeToFileDate(DateTime: TDateTime): Integer;
547: Function DateTimeToGmtOffsetStr( ADateTime : TDateTime; SubGMT : Boolean) : string
548: Function DateTimeToInternetStr( const Value : TDateTime; const AIsGMT : Boolean) : String
549: Function DateTimeToJulianDate( const AValue : TDateTime) : Double
550: Function DateTimeToModifiedJulianDate( const AValue : TDateTime) : Double
551: Function DateTimeToStr( DateTime : TDateTime) : string;
552: Function DateTimeToStr2( DateTime : TDateTime; FormatSettings : TFormatSettings) : string;
553: function DateTimeToTimeStamp(DateTime: TDateTime): TTimeStamp
554: Function DateTimeToUnix( const AValue : TDateTime) : Int64
555: function DateTimeToUnix(D: TDateTime): Int64;
556: Function DateToStr( DateTime : TDateTime) : string;
557: function DateToStr(const DateTime: TDateTime): string;
558: function DateToStr(D: TDateTime): string;
559: Function DateToStr2( DateTime : TDateTime; FormatSettings : TFormatSettings) : string;
560: Function DayOf( const AValue : TDateTime) : Word
561: Function DayOfTheMonth( const AValue : TDateTime) : Word
562: function DayOfTheMonth(const AValue: TDateTime): Word;
563: Function DayOfTheWeek( const AValue : TDateTime) : Word
564: Function DayOfTheYear( const AValue : TDateTime) : Word
565: function DayOfTheYear(const AValue: TDateTime): Word;
566: Function DayOfWeek( DateTime : TDateTime) : Word
567: function DayOfWeek(const DateTime: TDateTime): Word;
568: Function DayOfWeekStr( DateTime : TDateTime) : string
569: Function DaysBetween( const ANow, ATen : TDateTime) : Integer
570: Function DaysInAMonth( const AYear, AMonth : Word) : Word
571: Function DaysInAYear( const AYear : Word) : Word
572: Function DaysInMonth( const AValue : TDateTime) : Word
573: Function DaysInYear( const AValue : TDateTime) : Word
574: Function DaySpan( const ANow, ATen : TDateTime) : Double
575: Function DBUseRightToLeftAlignment( AControl : TControl; AField : TField) : Boolean
576: function DecimalSeparator: char;
577: Function DecLimit( var B : Byte; const Limit : Byte; const Decr : Byte) : Byte;
578: Function DecLimit1( var B : Shortint; const Limit : Shortint; const Decr : Shortint) : Shortint;
579: Function DecLimit2( var B : Smallint; const Limit : Smallint; const Decr : Smallint) : Smallint;
580: Function DecLimit3( var B : Word; const Limit : Word; const Decr : Word) : Word;
581: Function DecLimit4( var B : Integer; const Limit : Integer; const Decr : Integer) : Integer;
582: Function DecLimit5( var B : Cardinal; const Limit : Cardinal; const Decr : Cardinal) : Cardinal;
583: Function DecLimit6( var B : Int64; const Limit : Int64; const Decr : Int64) : Int64;
584: Function DecLimitClamp( var B : Byte; const Limit : Byte; const Decr : Byte) : Byte;
585: Function DecLimitClamp1( var B : Shortint; const Limit : Shortint; const Decr : Shortint) : Shortint;
586: Function DecLimitClamp2( var B : Smallint; const Limit : Smallint; const Decr : Smallint) : Smallint;
587: Function DecLimitClamp3( var B : Word; const Limit : Word; const Decr : Word) : Word;
588: Function DecLimitClamp4( var B : Integer; const Limit : Integer; const Decr : Integer) : Integer;
589: Function DecLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Decr : Cardinal) : Cardinal;
590: Function DecLimitClamp6( var B : Int64; const Limit : Int64; const Decr : Int64) : Int64;
591: Function DecodeDateFully( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
592: Function DecodeSoundexInt( AValue : Integer) : string
593: Function DecodeSoundexWord( AValue : Word) : string
594: Function DefaultAlignment : TAlignment
595: Function DefaultCaption : string
596: Function DefaultColor : TColor
597: Function DefaultFont : TFont
598: Function DefaultImeMode : TImeMode
599: Function DefaultImeName : TImeName
600: Function DefaultReadOnly : Boolean
601: Function DefaultWidth : Integer
602: Function DegMinSecToFloat( const Degs, Mins, Secs : Float) : Float
603: Function DegToCycle( const Degrees : Extended) : Extended
604: Function DegToGrad( const Degrees : Extended) : Extended
605: Function DegToGrad( const Value : Extended) : Extended;
606: Function DegToGrad1( const Value : Double) : Double;
607: Function DegToGrad2( const Value : Single) : Single;
608: Function DegToRad( const Degrees : Extended) : Extended
609: Function DegToRad( const Value : Extended) : Extended;
610: Function DegToRad1( const Value : Double) : Double;
611: Function DegToRad2( const Value : Single) : Single;

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612: Function DelChar( const pStr : string; const pChar : Char) : string
613: Function DelEnvironmentVar( const Name : string) : Boolean
614: Function Delete( const MsgNum : Integer) : Boolean
615: Function DeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean) : Boolean
616: Function DeleteFile(const FileName: string): boolean
617: Function DeleteFileEx( FileName : string; Flags : FILEOP_FLAGS) : Boolean
618: Function DelimiterPosn( const sString : string; const sDelimiters: string): integer;
619: Function DelimiterPosn1(const sString:string;const sDelimiters:string;out cDelimiter: char) : integer;
620: Function DelSpace( const pStr : string) : string
621: Function DelString( const pStr, pDelStr : string) : string
622: Function DelTree( const Path : string) : Boolean
623: Function Depth : Integer
624: Function Description : string
625: Function DescriptionsAvailable : Boolean
626: Function DescriptionToConvFamily( const ADescription : string; out AFamily : TConvFamily) : Boolean
627: Function DescriptionToConvType( const ADescription : string; out AType : TConvType) : Boolean;
628: Function DescriptionToConvType1(const AFamil:TConvFamily;const ADescr:string;out AType:TConvType):Boolean;
629: Function DetectUTF8Encoding( const s : UTF8String) : TEncodeType
630: Function DialogsToPixelsX( const Dialogs : Word) : Word
631: Function DialogsToPixelsY( const Dialogs : Word) : Word
632: Function Digits( const X : Cardinal) : Integer
633: Function DirectoryExists( const Name : string) : Boolean
634: Function DirectoryExists( Directory : string) : Boolean
635: Function DiskFree( Drive : Byte) : Int64
636: function DiskFree(Drive: Byte): Int64
637: Function DiskInDrive( Drive : Char) : Boolean
638: Function DiskSize( Drive : Byte) : Int64
639: function DiskSize(Drive: Byte): Int64
640: Function DISPATCHCOMMAND( ACOMMAND : WORD) : BOOLEAN
641: Function DispatchEnabled : Boolean
642: Function DispatchMask : TMask
643: Function DispatchMethodType : TMethodType
644: Function DISPATCHPOPUP( AHANDLE : HMENU) : BOOLEAN
645: Function DispatchRequest( Sender : TObject; Request : TWebRequest; Response : TWebResponse) : Boolean
646: Function DisplayCase( const S : String) : String
647: Function DisplayRect( Code : TDisplayCode) : TRect
648: Function DisplayRect( TextOnly : Boolean) : TRect
649: Function DisplayStream( Stream : TStream) : string
650: TBufferCoord', 'record Char : integer; Line : integer; end
651: TDisplayCoord', 'record Column : integer; Row : integer; end
652: Function DisplayCoord( AColumn, ARow : Integer) : TDisplayCoord
653: Function BufferCoord( AChar, ALine : Integer) : TBufferCoord
654: Function DomainName( const AHost : String) : String
655: Function DosPathToUnixPath( const Path : string) : string
656: Function DottedLineTo( const Canvas : TCanvas; const X, Y : Integer) : Boolean;
657: Function DoubleDecliningBalance( const Cost, Salvage : Extended; Life, Period : Integer) : Extended
658: Function DoubleToBcd( const AValue : Double) : TBcd;
659: Function DoubleToHex( const D : Double) : string
660: Function DoUpdates : Boolean
661: function Dragging: Boolean;
662: Function DrawCaption( p1 : HWND; p2 : HDC; const p3 : TRect; p4 : UINT) : BOOL
663: Function DrawAnimatedRects( hwnd : HWND; idAni : Integer; const lprcFrom, lprcTo : TRect) : BOOL
664: Function DrawEdge( hdc : HDC; var qrc : TRect; edge : UINT; grfFlags : UINT) : BOOL
665: Function DrawFrameControl( DC : HDC; const Rect : TRect; uType, uState : UINT) : BOOL
666: {Works like InputQuery but displays 2edits. If PasswordChar <> #0, the second edit's PasswordChar is set}
667: Function DualInputQuery(const ACaption,Prompt1,Prompt2:string;var AValue1,
AValue2:string;PasswordChar:Char=#0):Boolean;
668: Function DupeString( const AText : string; ACount : Integer) : string
669: Function Edit : Boolean
670: Function EditCaption : Boolean
671: Function EditText : Boolean
672: Function EditFolderList( Folders : TStrings) : Boolean
673: Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext) : Boolean
674: Function Elapsed( const Update : Boolean) : Cardinal
675: Function EnableProcessPrivilege( const Enable : Boolean; const Privilege : string) : Boolean
676: Function EnableThreadPrivilege( const Enable : Boolean; const Privilege : string) : Boolean
677: Function EncodeDate( Year, Month, Day : Word) : TDateTime
678: function EncodeDate(Year, Month, Day: Word): TDateTime;
679: Function EncodeDateDay( const AYear, ADayOfYear : Word) : TDateTime
680: Function EncodeDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word) : TDateTime
681: Function EncodeDateTime(const AYear,AMonth,ADay,AHour,AMinute,ASecond,AMilliSecond: Word): TDateTime
682: Function EncodeDateWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
683: Function EncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word) : TDateTime
684: Function EncodeString( s : string) : string
685: Function DecodeString( s : string) : string
686: Function EncodeTime( Hour, Min, Sec, MSec : Word) : TDateTime
687: function EncodeTime(Hour, Min, Sec, MSec: Word): TDateTime;
688: Function EndIP : String
689: Function EndOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
690: Function EndOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
691: Function EndOfAMonth( const AYear, AMonth : Word) : TDateTime
692: Function EndOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
693: Function EndOfAYear( const AYear : Word) : TDateTime
694: Function EndOfTheDay( const AValue : TDateTime) : TDateTime
695: Function EndOfTheMonth( const AValue : TDateTime) : TDateTime
696: Function EndOfTheWeek( const AValue : TDateTime) : TDateTime
697: Function EndOfTheYear( const AValue : TDateTime) : TDateTime
698: Function EndPeriod( const Period : Cardinal) : Boolean
699: Function EndsStr( const ASubText, AText : string) : Boolean

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700: Function EndsText( const ASubText, AText : string ) : Boolean
701: Function EnsureMsgIDBrackets( const AMsgID : String ) : String
702: Function EnsureRange( const AValue, AMin, AMax : Integer ) : Integer;
703: Function EnsureRange1( const AValue, AMin, AMax : Int64 ) : Int64;
704: Function EnsureRange2( const AValue, AMin, AMax : Double ) : Double;
705: Function EOF: boolean
706: Function EOln: boolean
707: Function EqualRect( const R1, R2 : TRect ) : Boolean
708: function EqualRect(const R1, R2: TRect): Boolean)
709: Function Equals( Strings : TWideStrings ) : Boolean
710: function Equals(Strings: TStrings): Boolean;
711: Function EqualState( oState : TniRegularExpressionState ) : boolean
712: Function ErrOutput: Text)
713: function ExceptionParam: String;
714: function ExceptionPos: Cardinal;
715: function ExceptionProc: Cardinal;
716: function ExceptionToString(er: TIFException; Param: String): String;
717: function ExceptionType: TIFException;
718: Function ExcludeTrailingBackslash( S : string ) : string
719: function ExcludeTrailingBackslash(const S: string): string)
720: Function ExcludeTrailingPathDelimiter( const APath : string ) : string
721: Function ExcludeTrailingPathDelimiter( S : string ) : string
722: function ExcludeTrailingPathDelimiter(const S: string): string)
723: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): boolean;
724: Function ExecProc : Integer
725: Function ExecSQL : Integer
726: Function ExecSQL( ExecDirect : Boolean ) : Integer
727: Function Execute : _Recordset;
728: Function Execute : Boolean
729: Function Execute : Boolean;
730: Function Execute( const SQL : string; Params : TParams; Cache : Boolean; cursor : phDBICur ) : Integer
731: Function Execute( const SQL : WideString; Params : TParams; ResultSet : TPSResult ) : Integer
732: Function Execute( ParentWnd : HWND ) : Boolean
733: Function Executel(constCommText:WideString;const CType:TCommandType;const ExecuteOptions:TExecuteOptions):
_Recordset;
734: Function Executel( const Parameters : OleVariant ) : _Recordset;
735: Function Executel( ParentWnd : HWND ) : Boolean;
736: Function Execute2( var RecordsAffected : Integer; const Parameters : OleVariant ) : _Recordset;
737: Function ExecuteAction( Action : TBasicAction ) : Boolean
738: Function ExecuteDirect( const SQL : WideString ) : Integer
739: Function ExecuteFile(const FileName:string;const Params:string;const DefDir:string;ShowCmd:Int):THandle
740: Procedure ExecuteThread2(afunc:TThreadFunction2;thrOK:boolean);AddTypeS('TThreadFunction2','procedure
741: Function CreateThread2(ThreadFunc: TThreadFunction2) : THandle
742: function ExeFileIsRunning(ExeFile: string): boolean;
743: function ExePath: string;
744: function ExePathName: string;
745: Function Exists( AItem : Pointer ) : Boolean
746: Function ExitWindows( ExitCode : Cardinal ) : Boolean
747: function Exp(x: Extended): Extended;
748: Function ExpandEnvironmentVar( var Value : string ) : Boolean
749: Function ExpandFileName( FileName : string ) : string
750: function ExpandFileName(const FileName: string): string)
751: Function ExpandUNCFileName( FileName : string ) : string
752: function ExpandUNCFileName(const FileName: string): string)
753: Function ExpJ( const X : Float ) : Float;
754: Function Exsecans( X : Float ) : Float
755: Function Extract( const AByteCount : Integer ) : string
756: Function Extract( Item : TClass ) : TClass
757: Function Extract( Item : TComponent ) : TComponent
758: Function Extract( Item : TObject ) : TObject
759: Function ExtractFileDir( FileName : string ) : string
760: function ExtractFileDir(const FileName: string): string)
761: Function ExtractFileDrive( FileName : string ) : string
762: function ExtractFileDrive(const FileName: string): string)
763: Function ExtractFileExt( FileName : string ) : string
764: function ExtractFileExt(const FileName: string): string)
765: Function ExtractFileExtNoDot( const FileName : string ) : string
766: Function ExtractFileExtNoDotUpper( const FileName : string ) : string
767: Function ExtractFileName( FileName : string ) : string
768: function ExtractFileName(const filename: string):string;
769: Function ExtractFilePath( FileName : string ) : string
770: function ExtractFilePath(const filename: string):string;
771: Function ExtractRelativePath( BaseName, DestName : string ) : string
772: function ExtractRelativePath(const BaseName: string; const DestName: string): string)
773: Function ExtractShortPathName( FileName : string ) : string
774: function ExtractShortPathName(const FileName: string): string)
775: function ExtractStrings(Separators, WhiteSpace: TSysCharSet; Content: PChar;Strings: TStrings): Integer
776: function ExtractStrings(Separators:TSysCharSet;WhiteSpace:TSysCharSet;Content:PChar;Str:TStrings): Integer)
777: Function Fact(numb: integer): Extended;
778: Function FactInt(numb: integer): int64;
779: Function Factorial( const N : Integer ) : Extended
780: Function FahrenheitToCelsius( const AValue : Double ) : Double
781: function FalseBoolStrs: array of string
782: Function Fetch(var AInput:string;const ADelim:string;const ADelete:Bool;const ACaseSensitive:Bool):string
783: Function FetchCaseInsensitive(var AInput:string; const ADelim:string; const ADelete:Boolean): string
784: Function Fibo(numb: integer): Extended;
785: Function FiboInt(numb: integer): Int64;
786: Function Fibonacci( const N : Integer ) : Integer
787: Fun.slideshare.net/maxkleiner1ELDNAME : STRING)

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788: Function FIELDBYNAME( const FIELDNAME : WIDESTRING ) : TFIELD
789: Function FIELDBYNAME( const NAME : String ) : TFIELD
790: Function FIELDBYNAME( const NAME : String ) : TFIELDDEF
791: Function FIELDBYNUMBER( FIELDNO : INTEGER ) : TFIELD
792: Function FileAge( FileName : string ) : Integer
793: Function FileAge(const FileName: string): integer
794: Function FileCompareText( const A, B : String ) : Integer
795: Function FileContains(const FileName:string;Text:string;CaseSensitive:Bool;ExceptionOnError:Bool): Boolean
796: Function FileCreate( FileName : string ) : Integer;
797: Function FileCreate(const FileName: string): integer
798: Function FileCreateTemp( var Prefix : string ) : THandle
799: Function FileDateToDateTime( FileDate : Integer ) : TDateTime
800: function FileDateToDateTime(FileDate: Integer): TDateTime;
801: Function FileExists( const FileName : string ) : Boolean
802: Function FileExists( FileName : string ) : Boolean
803: function fileExists(const FileName: string): Boolean;
804: Function FileGetAttr( FileName : string ) : Integer
805: Function FileGetAttr(const FileName: string): integer
806: Function FileGetDate( Handle : Integer ) : Integer
807: Function FileGetDate(handle: integer): integer
808: Function FileGetDisplayName( const FileName : string ) : string
809: Function FileGetSize( const FileName : string ) : Integer
810: Function FileGetTempName( const Prefix : string ) : string
811: Function FileGetTypeNames( const FileName : string ) : string
812: Function FileIsReadOnly( FileName : string ) : Boolean
813: Function FileLoad( ResType : TResType; const Name : string; MaskColor : TColor ) : Boolean
814: Function FileOpen( FileName : string; Mode : LongWord ) : Integer
815: Function FileOpen(const FileName: string; mode:integer): integer
816: Function FileRead(handle: integer; Buffer: PChar; count: LongWord): integer
817: Function FileSearch( Name, DirList : string ) : string
818: Function FileSearch(const Name, dirList: string): string
819: Function FileSeek( Handle : Integer; Offset : Int64; Origin : Integer ) : Int64;
820: Function FileSeek( Handle, Offset, Origin : Integer ) : Integer;
821: Function FileSeek(handle, offset, origin: integer): integer
822: Function FileSetAttr( FileName : string; Attr : Integer ) : Integer
823: function FileSetAttr(const FileName: string; Attr: Integer): Integer;
824: Function FileSetDate(FileName : string; Age : Integer ) : Integer;
825: Function FileSetDate(handle: integer; age: integer): integer
826: Function FileSetDate2(FileHandle : Integer; Age : Integer ) : Integer;
827: Function FileSetDateH( Handle : Integer; Age : Integer ) : Integer;
828: Function FileSetReadOnly( FileName : string; ReadOnly : Boolean ) : Boolean
829: Function FileSize( const FileName : string ) : int64
830: Function FileSizeByName( const AFilename : string ) : Longint
831: function FileWrite(Handle: Integer; const Buffer: pChar; Count: LongWord): Integer;
832: Function FilterSpecArray : TComdlgFilterSpecArray
833: Function FIND( ACAPTION : String ) : TMENUITEM
834: Function Find( AItem : Pointer; out AData : Pointer ) : Boolean
835: Function FIND( const ANAME : String ) : TNAMEITEM
836: Function Find( const DisplayName : string ) : TAggregate
837: Function Find( const Item : TBookmarkStr; var Index : Integer ) : Boolean
838: Function FIND( const NAME : String ) : TFIELD
839: Function FIND( const NAME : String ) : TFIELDDEF
840: Function FIND( const NAME : String ) : TINDEXDEF
841: Function Find( const S : WideString; var Index : Integer ) : Boolean
842: function Find(S:String;var Index:Integer):Boolean
843: Function FindAuthClass( AuthName : String ) : TIdAuthenticationClass
844: Function FindBand( AControl : TControl ) : TCoolBand
845: Function FindBoundary( AContentType : string ) : string
846: Function FindButton( AModalResult : TModalResult ) : TTaskDialogBaseButtonItem
847: Function FindCaption(StartIndex: Integer;Value: string; Partial,Inclusive,Wrap: Boolean): TListItem
848: Function FindCdLineSwitch( Switch : string; IgnoreCase : Boolean ) : Boolean;
849: Function FindCloseW(FindFile: Integer): LongBool; stdcall;
850: Function FindCmdLineSwitch( Switch : string; Chars : TSysCharSet; IgnoreCase : Boolean ) : Boolean;
851: Function FindCmdLineSwitch( Switch : string ) : Boolean;
852: function FindComponent(AName: String): TComponent;
853: function FindComponent(vlabel: string): TComponent;
854: function FindComponent2(vlabel: string): TComponent;
855: function FindControl(Handle: HWND): TWinControl;
856: Function FindData( StartIndex : Integer; Value : Pointer; Inclusive, Wrap : Boolean ) : TListItem
857: Function FindDatabase( const DatabaseName : string ) : TDatabase
858: function FindDragTarget(const Pos: TPoint; AllowDisabled: Boolean): TControl;
859: Function FINDFIELD( const FIELDNAME : STRING ) : TFIELD
860: Function FINDFIELD( const FIELDNAME : WideString ) : TFIELD
861: Function FindFirst2(const Path: string; Attr: Integer; var F: TSearchRec):Integer)
862: Function FindNext2(var F: TSearchRec): Integer)
863: procedure FindClose2(var F: TSearchRec)
864: Function FINDFIRST : BOOLEAN
865: TJvmSpecialFolder = (sfRecycleBin, sfControlPanel, sfDesktop, sfDesktopDirectory,
866: sfMyComputer, sfFonts, sfNetHood, sfNetwork, sfPersonal, sfPrinters, sfPrograms,sfRecent,sfSendTo,
sfStartMenu, stStartUp, sfTemplates);
867: FFolder: array [TJvmSpecialFolder] of Integer =
868: (CSIDL_BITBUCKET, CSIDL_CONTROLS, CSIDL_DESKTOP, CSIDL_DESKTOPDIRECTORY,
869: CSIDL_DRIVES, CSIDL_FONTS, CSIDL_NETHOOD, CSIDL_NETWORK, CSIDL_PERSONAL,
870: CSIDL_PRINTERS, CSIDL_PROGRAMS, CSIDL_RECENT, CSIDL_SENTO, CSIDL_STARTMENU,
871: CSIDL_STARTUP, CSIDL_TEMPLATES);
872: Function FindFilesDlg(StartIn: string; SpecialFolder: TJvmSpecialFolder; UseFolder: Boolean): Boolean);
873: function Findfirst(const filepath: string; attr: integer): integer;
874: function FindFirst2(const Path: string; Attr: Integer; var F: TSearchRec): Integer)
875: Function FindFirstNotOf( AFind, AText : String ) : Integer

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876: Function FindFirstOf( AFind, AText : String) : Integer
877: Function FindImmediateTransitionOn( cChar : char) : TniRegularExpressionState
878: Function FINDINDEXFORFIELDS( const FIELDS : String) : TINDEXDEF
879: Function FindInstanceOf( AClass : TClass; AExact : Boolean; AStartAt : Integer) : Integer
880: Function FINDITEM( VALUE : INTEGER; KIND : TFINDITEMKIND) : TMENUITEM
881: function FindItemId( Id : Integer) : TCollectionItem
882: Function FindKey( const KeyValues : array of const) : Boolean
883: Function FINDLAST : BOOLEAN
884: Function FindLineControl( ComponentType, ControlType : DWORD) : TJclMixerLineControl
885: Function FindModuleClass( AClass : TComponentClass) : TComponent
886: Function FindModuleName( const AClass : string) : TComponent
887: Function FINDNEXT : BOOLEAN
888: function FindNext: integer;
889: function FindNext2(var F: TSearchRec): Integer)
890: Function FindNextPage( CurPage : TTabSheet; GoForward, CheckTabVisible : Boolean) : TTabSheet
891: Function FindNextToSelect : TTreeNode
892: Function FINDPARAM( const VALUE : String) : TPARAM
893: Function FindParam( const Value : WideString) : TParameter
894: Function FINDPRIOR : BOOLEAN
895: Function FindResource( ModuleHandle : HMODULE; ResourceName, ResourceType : PChar) : TResourceHandle
896: Function FindSession( const SessionName : string) : TSession
897: function FindStringResource(Ident: Integer): string)
898: Function FindText( const SearchStr:string;StartPos,Length: Integer; Options: TSearchTypes):Integer
899: Function FindUnusedFileName( const FileName, FileExt, Suffix : AnsiString) : AnsiString
900: function FindVCLWindow(const Pos: TPoint): TWinControl;
901: function FindWindow(C1, C2: PChar): Longint;
902: Function FindInPaths(const fileName,paths: String): String;
903: Function Finger : String
904: Function First : TClass
905: Function First : TComponent
906: Function First : TObject
907: Function FirstDelimiter( const delimiters : string; const Str : String) : integer;
908: Function FirstDelimiter1( const delimiters : WideString; const Str : WideString) : integer;
909: Function FirstInstance( const ATitle : string) : Boolean
910: Function FloatPoint( const X, Y : Float) : TFloatPoint;
911: Function FloatPoint1( const P : TPoint) : TFloatPoint;
912: Function FloatPtInRect( const Rect : TFloatRect; const P : TFloatPoint) : Boolean
913: Function FloatRect( const ALeft, ATop, ARight, ABottom : Double) : TFloatRect;
914: Function FloatRect1( const Rect : TRect) : TFloatRect;
915: Function FloatsEqual( const X, Y : Float) : Boolean
916: Function FloatToBin(const D: Double): string; //doubletohex -> hex to bin! in buffer
917: Function FloatToCurr( Value : Extended) : Currency
918: Function FloatToDateTime( Value : Extended) : TDateTime
919: Function FloatToStr( Value : Extended) : string;
920: Function FloatToStr(e : Extended) : string;
921: Function FloatToStrF( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer) : string;
922: function FloatToStrF(Value: Extended; Format: TFloatFormat; Precision: Integer; Digits: Integer): string)
923: Function FloatToStr2( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer; FormatSettings : TFormatSettings) : string;
924: Function FloatToStrFS( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer; FormatSettings : TFormatSettings) : string;
925: function FloatToText(BufferArg: PChar; const Value: Extended; ValueType: TFloatValue; Format: TFloatFormat; Precision,Digits: Integer) : Integer)
926: Function Floor( const X : Extended) : Integer
927: Function FloorInt( Value : Integer; StepSize : Integer) : Integer
928: Function FloorJ( const X : Extended) : Integer
929: Function Flush( const Count : Cardinal) : Boolean
930: Function Flush(var t: Text): Integer
931: function FmtLoadStr(Ident: Integer; const Args: array of const): string)
932: function FOCUSED:BOOLEAN
933: Function ForceBackslash( const PathName : string) : string
934: Function ForceDirectories( const Dir : string) : Boolean
935: Function ForceDirectories( Dir : string) : Boolean
936: Function ForceDirectories( Name : string) : Boolean
937: Function ForceInBox( const Point : TPoint; const Box : TRect) : TPoint
938: Function ForceInRange( A, Min, Max : Integer) : Integer
939: Function ForceInRangeR( const A, Min, Max : Double) : Double
940: Function ForEach( AProc : TBucketProc; AInfo : Pointer) : Boolean;
941: Function ForEach1( AEvent : TBucketEvent) : Boolean;
942: Function ForegroundTask: Boolean
943: function Format(const Format: string; const Args: array of const): string;
944: Function FormatBcd( const Format : string; Bcd : TBcd) : string
945: FUNCTION FormatBigInt(s: string): STRING;
946: function FormatBuf(var Buffer:PChar;BufLen:Card;const Format:string;FmtLen:Cardinal;const Args:array of const):Cardinal
947: Function FormatCount( iCount : integer; const sSingular : string; const sPlural : string) : string
948: Function FormatCurr( Format : string; Value : Currency) : string;
949: function FormatCurr(const Format: string; Value: Currency): string)
950: Function FormatDateTime( Format : string; DateTime : TDateTime) : string;
951: function FormatDateTime(const fmt: string; D: TDateTime): string;
952: Function FormatFloat( Format : string; Value : Extended) : string;
953: function FormatFloat(const Format: string; Value: Extended): string)
954: Function FormatFloat( Format : string; Value : Extended) : string;
955: Function FormatFloat2( Format : string; Value : Extended; FormatSettings : TFormatSettings) : string;
956: Function FormatCurr( Format : string; Value : Currency) : string;
957: Function FormatCurr2(Format: string; Value : Currency; FormatSettings : TFormatSettings) : string;
958: Function Format2(const Format:string;const Args:array of const;const FSettings:TFormatSettings): string
959: FUNCTION FormatInt(i: integer): STRING;
960: FUNCTION FormatInt64(i: int64): STRING;

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961: Function FormatMaskText( const EditMask : string; const Value : string ) : string
962: Function FormatValue( AValue : Cardinal ) : string
963: Function FormatVersionString( const HiV, LoV : Word ) : string;
964: Function FormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
965: Function Frac(X: Extended): Extended;
966: Function FreeResource( ResData : HGLOBAL ) : LongBool
967: Function FromCommon( const AValue : Double ) : Double
968: Function FromCommon(const AValue: Double): Double;
969: Function FTPGMTDateTimeToMLS( const ATimeStamp : TDateTime; const AIncludeMSecs : Boolean ) : String
970: Function FTPLocalDateTimeToMLS( const ATimeStamp : TDateTime; const AIncludeMSecs : Boolean ) : String
971: Function FTPMLSToGMTDateTime( const ATimeStamp : String ) : TDateTime
972: Function FTPMLSToLocalDateTime( const ATimeStamp : String ) : TDateTime
973: Function FuncIn(AValue: Variant; ASet: Variant): Boolean;
974: //Function Funclist Size is: 6444 of mX3.9.8.9
975: Function FutureValue(const Rate:Extended;NPeriods:Integer;const Payment,PresentValue:Extended;PaymentTime:
    TPaymentTime):Extended
976: Function Gauss( const x, Spread : Double ) : Double
977: function Gauss(const x,Spread: Double): Double;
978: Function GCD(x, y : LongInt ) : LongInt;
979: Function GCDJ( X, Y : Cardinal ) : Cardinal
980: Function GDAL: LongWord
981: Function GdiFlush : BOOL
982: Function GdiSetBatchLimit( Limit : DWORD ) : DWORD
983: Function GdiGetBatchLimit : DWORD
984: Function GenerateHeader : TIdHeaderList
985: Function GeometricMean( const X : TDynFloatArray ) : Float
986: Function Get( AURL : string ) : string;
987: Function Get2( AURL : string ) : string;
988: Function Get8087CW : Word
989: function GetActiveOleObject(const ClassName: String): IDispatch;
990: Function GetAliasDriverName( const AliasName : string ) : string
991: Function GetAPMBatteryFlag : TAPMBatteryFlag
992: Function GetAPMBatteryFullLifeTime : DWORD
993: Function GetAPMBatteryLifePercent : Integer
994: Function GetAPMBatteryLifeTime : DWORD
995: Function GetAPMLineStatus : TAPMLineStatus
996: Function GetAppdataFolder : string
997: Function GetAppDispatcher : TComponent
998: function GetArrayLength: integer;
999: Function GetASCII: string;
1000: Function GetASCIILine: string;
1001: Function GetAsHandle( Format : Word ) : THandle
1002: function GetAssociatedProgram(const Extension: string; var Filename, Description: string): boolean;
1003: Function GetBackupFileName( const FileName : string ) : string
1004: Function GetBBitmap( Value : TBitmap ) : TBitmap
1005: Function GetBIOSCopyright : string
1006: Function GetBIOSDate : TDateTime
1007: Function GetBIOSExtendedInfo : string
1008: Function GetBIOSName : string
1009: Function getBitmap(aphat: string): TBitmap;
1010: Function GetBitmap( Index : Integer; Image : TBitmap ) : Boolean //object
1011: Function getBitMapObject(const bitmappath: string): TBitmap;
1012: Function GetButtonState( Button : TPageScrollerButton ) : TPageScrollerButtonState
1013: Function GetCapsLockKeyState : Boolean
1014: function GetCaptureControl: TControl;
1015: Function GetCDAudioTrackList( var TrackList : TJclCdTrackInfoArray; Drive : Char ) : TJclCdTrackInfo;
1016: Function GetCDAudioTrackList1( TrackList : TStringList; IncludeTrackType : Boolean; Drive : Char ) : string;
1017: Function GetCdInfo( InfoType : TJclCdMediaInfo; Drive : Char ) : string
1018: Function GetChangedText( const Text : string; SelStart, SelLength : Integer; Key : Char ) : string
1019: Function GetClientThread( ClientSocket : TServerClientWinSocket ) : TServerClientThread
1020: Function GetClockValue : Int64
1021: function getCmdLine: PChar;
1022: function getCmdShow: Integer;
1023: function GetCPUSpeed: Double;
1024: Function GetColField( DataCol : Integer ) : TField
1025: Function GetColorBlue( const Color : TColor ) : Byte
1026: Function GetColorFlag( const Color : TColor ) : Byte
1027: Function GetColorGreen( const Color : TColor ) : Byte
1028: Function GetColorRed( const Color : TColor ) : Byte
1029: Function GetComCtlVersion : Integer
1030: Function GetComPorts: TStringList;
1031: Function GetCommonAppdataFolder : string
1032: Function GetCommonDesktopdirectoryFolder : string
1033: Function GetCommonFavoritesFolder : string
1034: Function GetCommonFilesFolder : string
1035: Function GetCommonProgramsFolder : string
1036: Function GetCommonStartmenuFolder : string
1037: Function GetCommonStartupFolder : string
1038: Function GetComponent( Owner, Parent : TComponent ) : TComponent
1039: Function GetConnectionRegistryFile( DesignMode : Boolean ) : string
1040: Function GetCookiesFolder : string
1041: Function GetCPUSpeed( var CpuSpeed : TFreqInfo ) : Boolean
1042: Function GetCurrent : TFavoriteLinkItem
1043: Function GetCurrent : TListItem
1044: Function GetCurrent : TTaskDialogBaseButtonItem
1045: Function GetCurrent : TToolButton
1046: Function GetCurrent : TTreeNode
1047: Function GetCurrent : WideString
1048: Function GetCurrentDir : string

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1049: function GetCurrentDir: string)
1050: Function GetCurrentFolder : string
1051: Function GETCURRENTRECORD( BUFFER : PCHAR ) : BOOLEAN
1052: Function GetCurrentProcessId : TIdPID
1053: Function GetCurrentThreadHandle : THandle
1054: Function GetCurrentThreadID: LongWord; stdcall;
1055: Function GetCustomHeader( const Name : string ) : String
1056: Function GetDataItem( Value : Pointer ) : Longint
1057: Function GetDataLinkFiles( FileNames : TWideStrings; Directory : string ) : Integer;
1058: Function GetDataLinkFiles1( FileNames : TStrings; Directory : string ) : Integer;
1059: Function GETDATASIZE : INTEGER
1060: Function GetDC(hdwnd: HWND): HDC;
1061: Function GetDefaultFileExt( const MIMEType : string ) : string
1062: Function GetDefaults : Boolean
1063: Function GetDefaultSchemaName : WideString
1064: Function GetDefaultStreamLoader : IStreamLoader
1065: Function GetDesktopDirectoryFolder : string
1066: Function GetDesktopFolder : string
1067: Function GetDFASState( oStates : TList ) : TniRegularExpressionState
1068: Function GetDirectorySize( const Path : string ) : Int64
1069: Function GetDisplayWidth : Integer
1070: Function GetDLLVersion( const DLLName : string; var pdwMajor, pdwMinor : Integer ) : Boolean
1071: Function GetDomainName : string
1072: Function GetDriverRegistryFile( DesignMode : Boolean ) : string
1073: function GetDriveType(rootpath: pchar): cardinal;
1074: Function GetDriveTypeStr( const Drive : Char ) : string
1075: Function GetEnumerator : TFavoriteLinkItemsEnumerator
1076: Function GetEnumerator : TListItemEnumerator
1077: Function GetEnumerator : TTaskDialogButtonsEnumerator
1078: Function GetEnumerator : TToolBarEnumerator
1079: Function GetEnumerator : TTreeNodeEnumerator
1080: Function GetEnumerator : TWideStringsEnumerator
1081: Function GetEnvVar( const VarName : string ) : string
1082: Function GetEnvironmentVar( const AVariableName : string ) : string
1083: Function GetEnvironmentVariable( const VarName : string ) : string
1084: Function GetEnvironmentVar( const Name : string; var Value : string; Expand : Boolean ) : Boolean
1085: Function GetEnvironmentVars( const Vars : TStrings; Expand : Boolean ) : Boolean
1086: Function getEnvironmentString: string;
1087: Function GetExceptionHandler : TObject
1088: Function GetFavoritesFolder : string
1089: Function GetFieldByName( const Name : string ) : string
1090: Function GetFieldInfo( const Origin : WideString; var FieldInfo : TFieldInfo ) : Boolean
1091: Function GetFieldValue( ACol : Integer ) : string
1092: Function GetFileAgeCoherence( const FileName : string ) : Boolean
1093: Function GetFileCreation( const FileName : string ) : TFileTime
1094: Function GetFileCreationTime( const Filename : string ) : TDateTime
1095: Function GetFileInformation( const FileName : string ) : TSearchRec
1096: Function GetFileLastAccess( const FileName : string ) : TFileTime
1097: Function GetFileLastWrite( const FileName : string ) : TFileTime
1098: Function GetFileList(FileList: TStringlist; apath: string): TStringlist;
1099: Function GetFileList1( apath: string ) : TStringlist;
1100: Function GetFileMIMEType( const AFileName : string ) : string
1101: Function GetFileSize( const FileName : string ) : Int64
1102: Function GetFileVersion( AFileName : string ) : Cardinal
1103: Function GetFileVersion( const AFilename : string ) : Cardinal
1104: Function GetFileSize2(Handle: Integer; x: Integer): Integer; stdcall;
1105: Function GetFileDate(aFile:string; aWithTime:Boolean):string;
1106: Function GetFilterData( Root : PExprNode ) : TExprData
1107: Function getFirstChild : LongInt
1108: Function getFirstChild : TTreeNode
1109: Function GetFirstDelimitedToken( const cDelim : char; const cStr : string ) : string
1110: Function GetFirstNode : TTreeNode
1111: Function GetFontsFolder : string
1112: Function GetFormulaValue( const Formula : string ) : Extended
1113: Function GetFreePageFileMemory : Integer
1114: Function GetFreePhysicalMemory : Integer
1115: Function GetFreeSystemResources( const ResourceType : TFreeSysResKind ) : Integer;
1116: Function GetFreeSystemResources1 : TFreeSystemResources;
1117: Function GetFreeVirtualMemory : Integer
1118: Function GetFromClipboard : Boolean
1119: Function GetFullURI( const AOptionalFields : TIdURIOptionalFieldsSet ) : String
1120: Function GetGBitmap( Value : TBitmap ) : TBitmap
1121: Function GetGMTDateByName( const AFileName : TIdFileName ) : TDateTime
1122: Function GetGroupState( Level : Integer ) : TGroupPosInds
1123: Function GetHandle : HWND
1124: Function GETHELPCONTEXT( VALUE : INTEGER; BYCOMMAND : BOOLEAN ) : THELPCONTEXT
1125: function GetHexArray(ahexdig: THexArray): THexArray;
1126: Function GetHighLightColor( const Color : TColor; Luminance : Integer ) : TColor
1127: function GetHINSTANCE: longword;
1128: Function GetHistoryFolder : string
1129: Function GetHitTestInfoAt( X, Y : Integer ) : THitTests
1130: function getHMODULE: longword;
1131: Function GetHostByName(const AComputerName: String): String;
1132: Function GetHostName : string
1133: Function getHostIP: string;
1134: Function GetHotSpot : TPoint
1135: Function GetHueBitmap( Value : TBitmap ) : TBitmap
1136: Function GetImageBitmap : HBITMAP
1137: Function GETIMAGELIST : TCUSTOMIMAGELIST

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1138: Function GetIncome( const aNetto : Currency) : Currency
1139: Function GetIncome( const aNetto : Extended) : Extended
1140: Function GetIncome( const aNetto : Extended): Extended
1141: Function GetIncome(const aNetto : Extended) : Extended
1142: Function GetIncome(const aNetto: Currency): Currency
1143: Function GetIncome2( const aNetto : Currency) : Currency
1144: Function GetIncome2( const aNetto : Currency): Currency
1145: Function getIndex_Attrs( tag : string; var idx : Integer; var Attrs : string) : string
1146: Function GETINDEXFORFIELDS( const FIELDS : String; CASEINSENSITIVE : BOOLEAN) : TINDEXDEF
1147: Function GetIndexForOrderBy( const SQL : WideString; DataSet : TDataSet) : TIndexDef
1148: Function GetInstRes(Instance:THandle;ResType:TResType;TResType;const
Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor):Boolean;
1149: Function
GetInstRes1(Instance:THandle;ResType:TResType;ResID:DWORD;Width:Integer;LoadFlags:TLoadResources;MaskColor:
TColor):Boolean;
1150: Function GetIntelCacheDescription( const D : Byte) : string
1151: Function GetInteractiveUserName : string
1152: Function GetInternetCacheFolder : string
1153: Function GetInternetFormattedFileTimeStamp( const AFilename : String) : String
1154: Function GetIPAddress( const HostName : string) : string
1155: Function GetIP( const HostName : string) : string
1156: Function GetIPHostByName(const AComputerName: String): String;
1157: Function GetIsAdmin: Boolean;
1158: Function GetItem( X, Y : Integer) : LongInt
1159: Function GetItemAt( X, Y : Integer) : TListItem
1160: Function GetItemHeight(Font: TFont): Integer;
1161: Function GetItemPath( Index : Integer) : string
1162: Function GetKeyFieldNames( List : TStrings) : Integer;
1163: Function GetKeyFieldNames1( List : TWideStrings) : Integer;
1164: Function GetKeyState( const VirtualKey : Cardinal) : Boolean
1165: Function GetLastChild : LongInt
1166: Function GetLastChild : TTreeNode
1167: Function GetLastDelimitedToken( const cDelim : char; const cStr : string) : string
1168: Function GetLastError: Integer
1169: Function GetLAT_CONV_FACTOR: double; //for WGS84 power(1 - 1 / 298.257223563, 2);
1170: Function GetLoader( Ext : string) : TBitmapLoader
1171: Function GetLoadFilter : string
1172: Function GetLocalComputerName : string
1173: Function GetLocaleChar( Locale, LocaleType : Integer; Default : Char) : Char
1174: Function GetLocaleStr( Locale, LocaleType : Integer; Default : string) : string
1175: Function GetLocalUserName : string
1176: Function GetLoginUsername : WideString
1177: Function getLongDayNames: string)
1178: Function GetLongHint(const hint: string): string
1179: Function getLongMonthNames: string)
1180: Function GetMacAddresses( const Machine : string; const Addresses : TStrings) : Integer
1181: Function GetMainAppWndFromPid( PID : DWORD) : HWND
1182: Function GetMaskBitmap : HBITMAP
1183: Function GetMaxAppAddress : Integer
1184: Function GetMciErrorMessage( const MciErrNo : MCIERROR) : string
1185: Function GetMemoryLoad : Byte
1186: Function GetMIMEDefaultFileExt( const MIMETYPE : string) : TIdFileName
1187: Function GetMIMETYPEFromFile( const AFile : string) : string
1188: Function GetMIMETYPEFromFile( const AFile : TIdFileName) : string
1189: Function GetMinAppAddress : Integer
1190: Function GetModule : TComponent
1191: Function GetModuleHandle( ModuleName : PChar) : HMODULE
1192: Function GetModuleName( Module : HMODULE) : string
1193: Function GetModulePath( const Module : HMODULE) : string
1194: Function GetModuleFileName(Module: Integer; Filename: PChar;Size: Integer): Integer; stdcall;
1195: Function GetCommandLine: PChar; stdcall;
1196: Function GetMonochromeBitmap( Value : TBitmap) : TBitmap
1197: Function GetMultiN(aval: integer): string;
1198: Function GetName : String
1199: Function GetNearestItem( Point : TPoint; Direction : TSearchDirection) : TListItem
1200: Function GetNethoodFolder : string
1201: Function GetNext : TTreeNode
1202: Function GetNextChild( Value : LongInt) : LongInt
1203: Function GetNextChild( Value : TTreeNode) : TTreeNode
1204: Function GetNextDelimitedToken( const cDelim : char; var cStr : String) : String
1205: Function GetNextItem( StartItem: TListItem;Direction:TSearchDirection;States:TItemStates) : TListItem
1206: Function GetNextPacket : Integer
1207: Function getNextSibling : TTreeNode
1208: Function GetNextVisible : TTreeNode
1209: Function GetNode( ItemId : HTreeItem) : TTreeNode
1210: Function GetNodeAt( X, Y : Integer) : TTreeNode
1211: Function GetNodeDisplayWidth( Node : TOutlineNode) : Integer
1212: Function GetNumberOfProcessors: longint;
1213: Function GetNumLockKeyState : Boolean
1214: Function GetObjectProperty( Instance : TPersistent; const PropName : string) : TObject
1215: Function GetOnlyTransitionOn( cChar : char) : TniRegularExpressionState
1216: Function GetOptionalParam( const ParamName : string) : OleVariant
1217: Function GetOSName: string;
1218: Function GetOSVersion: string;
1219: Function GetOSNumber: string;
1220: Function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
1221: Function GetPackageModuleHandle( PackageName : PChar) : HMODULE
1222: Function GetPageSize: Cardinal;
1223: Function GetParameterFileName : string

```

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1224: Function GetParams( var OwnerData : OleVariant) : OleVariant
1225: Function GETPARENTCOMPONENT : TCOMPONENT
1226: Function GetParentForm(control: TControl): TForm
1227: Function GETPARENTMENU : TMENU
1228: Function GetPassword : Boolean
1229: Function GetPassword : string
1230: Function GetPersonalFolder : string
1231: Function GetPidFromProcessName( const ProcessName : string) : DWORD
1232: Function GetPosition : TPoint
1233: Function GetPrev : TTreeNode
1234: Function GetPrevChild( Value : LongInt) : LongInt
1235: Function GetPrevChild( Value : TTreeNode) : TTreeNode
1236: Function getPrevSibling : TTreeNode
1237: Function GetPrevVisible : TTreeNode
1238: Function GetPrinthoodFolder : string
1239: Function GetPrivilegeDisplayName( const PrivilegeName : string) : string
1240: Function getProcessList: TStringList;
1241: Function GetProcessId : TIdPID
1242: Function GetProcessNameFromPid( PID : DWORD) : string
1243: Function GetProcessNameFromWnd( Wnd : HWND) : string
1244: Function GetProcessMemoryInfo(Process: THandle;ppsmemCounters: TProcessMemoryCounters;cb: DWORD):BOOL
1245: Function getProcessAllMemory(ProcessID : DWORD): TProcessMemoryCounters;
1246: Function getProcessMemoryInfo2(ProcessID : DWORD): TProcessMemoryCounters;
1247: Function GetProgramFilesFolder : string
1248: Function GetProgramsFolder : string
1249: Function GetProxy : string
1250: Function GetQuoteChar : WideString
1251: Function GetQrCode4(Width,Height:Word; Correct_Level:string;const
Data:string;aformat:string):TLinearBitmap;
1252: Function GetQrCodeToFile(Width,Height:Word;Correct_Level:string;const
Data:string;aformat:string):TLinearBitmap;
1253: Function GetRate : Double
1254: Function getPerfTime: string;
1255: Function getRuntime: string;
1256: Function GetRBitmap( Value : TBitmap) : TBitmap
1257: Function GetReadableName( const AName : string) : string
1258: Function GetRecentDocs : TStringList
1259: Function GetRecentFolder : string
1260: Function GetRecords( Count : Integer; out RecsOut : Integer; Options : Integer) : OleVariant;
1261: Function GetRecords1(Count:Integer; out RecsOut:Integer;Options:Integer;const CommandText:WideString;var
Params, OwnerData : OleVariant) : OleVariant;
1262: Function GetRecordset( const CommandText : WideString; ConnectionString : WideString) : _Recordset
1263: Function GetRegisteredCompany : string
1264: Function GetRegisteredOwner : string
1265: Function GetResource(ResType:TResType;const
Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor:Boolean
1266: Function GetResourceName( ObjStream : TStream; var AName : string) : Boolean
1267: Function GetResponse( const AAllowedResponses : array of SmallInt) : SmallInt;
1268: Function GetResponse1( const AAllowedResponse : SmallInt) : SmallInt;
1269: Function GetRValue( rgb : DWORD) : Byte
1270: Function GetGValue( rgb : DWORD) : Byte
1271: Function GetBValue( rgb : DWORD) : Byte
1272: Function GetCValue( cmyk : COLORREF) : Byte
1273: Function GetMValue( cmyk : COLORREF) : Byte
1274: Function GetYValue( cmyk : COLORREF) : Byte
1275: Function GetKValue( cmyk : COLORREF) : Byte
1276: Function CMYK( c, m, y, k : Byte) : COLORREF
1277: Function GetOSName: string;
1278: Function GetProcAddress( hModule : HMODULE; lpProcName : LPCSTR) : FARPROC
1279: Function GetProcAddress(Module: HMODULE; Proc: PChar): Dword
1280: Function GetSafeCallExceptionMsg : String
1281: Function GetSaturationBitmap( Value : TBitmap) : TBitmap
1282: Function GetSaveFilter : string
1283: Function GetSaver( Ext : string) : TBitmapLoader
1284: Function GetScrollLockKeyState : Boolean
1285: Function GetSearchString : string
1286: Function GetSelections( AList : TList) : TTreeNode
1287: Function GETSELTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1288: Function GetSendToFolder : string
1289: Function GetServer : IAppServer
1290: Function GetServerList : OleVariant
1291: Function GetShadowColor( const Color : TColor; Luminance : Integer) : TColor
1292: Function GetShellProcessHandle : THandle
1293: Function GetShellProcessName : string
1294: Function GetShellVersion : Cardinal
1295: Function getShortDayNames: string)
1296: Function GetShortHint(const hint: string): string
1297: Function getShortMonthNames: string)
1298: Function GetSizeOfFile( const FileName : string) : Int64;
1299: Function GetSizeOfFile1( Handle : THandle) : Int64;
1300: Function GetStdHandle(nStdHandle: Integer): Integer; stdcall;
1301: Function GetStartmenuFolder : string
1302: Function GetStartupFolder : string
1303: Function GetStringProperty( Instance : TPersistent; const PropName : string) : WideString
1304: Function GetSuccessor( cChar : char) : TniRegularExpressionState
1305: Function GetSwapFileSize : Integer
1306: Function GetSwapFileUsage : Integer
1307: Function GetSystemLocale : TIdCharSet
1308: Function GetSystemMetrics( nIndex : Integer) : Integer

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1309: Function GetSystemPathSH(Folder: Integer): TFilename ;
1310: Function GetTableNameFromQuery( const SQL : WideString) : WideString
1311: Function GetTableNameFromSQL( const SQL : WideString) : WideString
1312: Function GetTableNameFromSQLEx( const SQL : WideString; IdOption : IDENTIFIEROption) : WideString
1313: Function GetTasksList( const List : TStringList) : Boolean
1314: Function getTeamViewerID: string;
1315: Function GetTemplatesFolder : string
1316: Function GetText : PwideChar
1317: function GetText:PChar
1318: Function GetTextBuf( Buffer : PChar; BufSize : Integer) : Integer
1319: function GETTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1320: Function GetTextItem( const Value : string) : Longint
1321: function GETTEXTLEN:INTEGER
1322: Function GetThreadLocale: Longint; stdcall
1323: Function GetCurrentThreadID: LongWord; stdcall;
1324: Function GetTickCount : Cardinal
1325: Function GetTickDiff( const AOldTickCount, ANewTickCount : Cardinal) : Cardinal
1326: Function GetTicketNr : longint
1327: Function GetTime : Cardinal
1328: Function GetTime : TDateTime
1329: Function GetTimeout : Integer
1330: Function GetTimeStr: String
1331: Function GetTimeString: String
1332: Function GetTodayFiles(startdir, amask: string): TStringlist;
1333: Function getTokenCounts : integer
1334: Function GetTotalPageFileMemory : Integer
1335: Function GetTotalPhysicalMemory : Integer
1336: Function GetTotalVirtualMemory : Integer
1337: Function GetUniqueFileName( const APath, APrefix, AExt : String) : String
1338: Function GetUseNowForDate : Boolean
1339: Function GetUserDomainName( const CurUser : string) : string
1340: Function GetUserName : string
1341: Function GetUserName: string;
1342: Function GetUserObjectName( hUserObject : THandle) : string
1343: Function GetValueBitmap( Value : TBitmap) : TBitmap
1344: Function GetValueMSec : Cardinal
1345: Function GetValueStr : String
1346: Function GetVersion: int;
1347: Function GetVersionString(FileName: string): string;
1348: Function GetVisibleNode( Index : LongInt) : TOutlineNode
1349: Function GetVolumeFileSystem( const Drive : string) : string
1350: Function GetVolumeName( const Drive : string) : string
1351: Function GetVolumeSerialNumber( const Drive : string) : string
1352: Function GetWebAppServices : IWebAppServices
1353: Function GetWebRequestHandler : IWebRequestHandler
1354: Function GetWindowCaption( Wnd : HWND) : string
1355: Function GetWindowDC(hdwnd: HWND): HDC;
1356: Function GetWindowIcon( Wnd : HWND; LargeIcon : Boolean) : HICON
1357: Function GetWindowRect(hwnd: HWND; arect: TRect): Boolean
1358: Function GetWindowsComputerID : string
1359: function GetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
1360: Function GetWindowsFolder : string
1361: Function GetWindowsServicePackVersion : Integer
1362: Function GetWindowsServicePackVersionString : string
1363: Function GetWindowsSystemFolder : string
1364: Function GetWindowsTempFolder : string
1365: Function GetWindowsUserID : string
1366: Function GetWindowsVersion : TWindowsVersion
1367: Function GetWindowsVersionString : string
1368: Function GmtOffsetStrToDateTime( S : string) : TDateTime
1369: Function GMTToLocalDateTime( S : string) : TDateTime
1370: Function GotoKey : Boolean
1371: Function GradToCycle( const Grads : Extended) : Extended
1372: Function GradToDeg( const Grads : Extended) : Extended
1373: Function GradToDeg( const Value : Extended) : Extended;
1374: Function GradToDeg1( const Value : Double) : Double;
1375: Function GradToDeg2( const Value : Single) : Single;
1376: Function GradToRad( const Grads : Extended) : Extended
1377: Function GradToRad( const Value : Extended) : Extended;
1378: Function GradToRad1( const Value : Double) : Double;
1379: Function GradToRad2( const Value : Single) : Single;
1380: Function Gray32( const Intensity : Byte; const Alpha : Byte) : TColor32
1381: Function GreenComponent( const Color32 : TColor32) : Integer
1382: function GUIDToString(const GUID: TGUID): string)
1383: Function HandleAllocated : Boolean
1384: function HandleAllocated: Boolean;
1385: Function HandleRequest : Boolean
1386: Function HandleRequest( Request : TWebRequest; Response : TWebResponse) : Boolean
1387: Function HarmonicMean( const X : TDynFloatArray) : Float
1388: Function HasAsParent( Value : TTreeNode) : Boolean
1389: Function HASCHILDEFS : BOOLEAN
1390: Function HasCurValues : Boolean
1391: Function HasExtendCharacter( const s : UTF8String) : Boolean
1392: Function HasFormat( Format : Word) : Boolean
1393: Function HashValue( AStream : TStream) : T5x4LongWordRecord;
1394: Function HashValue(AStream : TStream) : T4x4LongWordRecord
1395: Function HashValue(AStream: TStream): LongWord
1396: Function HashValue(AStream: TStream): Word
1397: Function HashValue1( AStream : TStream; const ABeginPos, AEndPos : Int64) : T5x4LongWordRecord;

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1398: Function HashValue1(AStream : TStream): T4x4LongWordRecord
1399: Function HashValue128(const ASrc: string): T4x4LongWordRecord;
1400: Function HashValue128Stream(AStream: TStream): T4x4LongWordRecord;
1401: Function HashValue16(const ASrc: string): Word;
1402: Function HashValue16stream(AStream: TStream): Word;
1403: Function HashValue32(const ASrc: string): LongWord;
1404: Function HashValue32Stream(AStream: TStream): LongWord;
1405: Function HasMergeConflicts: Boolean
1406: Function hasMoreTokens: boolean
1407: Function HASPARENT: BOOLEAN
1408: Function HasParent: Boolean
1409: Function HasTransaction(Transaction: TDBXTransaction): Boolean
1410: Function HasUTF8BOM(S: TStream): boolean;
1411: Function HasUTF8BOM1(S: AnsiString): boolean;
1412: Function Haversine(X: Float): Float
1413: Function Head(s: string; const subs: string; var tail: string): string
1414: Function HELPCOMMAND(COMMAND: INTEGER; DATA: LONGINT): BOOLEAN
1415: Function HELPCONTEXT(CONTEXT: THELPCONTEXT): BOOLEAN
1416: Function HELPJUMP(JUMPID: STRING): BOOLEAN
1417: Function HeronianMean(const a, b: Float): Float
1418: Function HexStrToStr(Value: string): string;
1419: Function HexToBin(Text, Buffer: PChar; BufSize: Integer): Integer;
1420: Function HexToBin2(HexNum: string): string;
1421: Function HexToDouble(const Hex: string): Double
1422: Function HexToInt(hexnum: string): LongInt;
1423: Function HexToStr(Value: string): string;
1424: Function HexifyBlock(var Buffer, BufferSize: Integer): string
1425: Function Hi(vdat: word): byte;
1426: Function HiByte(W: Word): Byte)
1427: Function High: Int64;
1428: Function HighlightCell(DataCol, DataRow: Integer; const Value: string; AState: TGridDrawState): Boolean
1429: Function HINSTANCE: longword;
1430: Function HiWord(l: DWORD): Word)
1431: Function HMODULE: longword;
1432: Function HourOf(const AValue: TDateTime): Word
1433: Function HourOfTheDay(const AValue: TDateTime): Word
1434: Function HourOfTheMonth(const AValue: TDateTime): Word
1435: Function HourOfTheWeek(const AValue: TDateTime): Word
1436: Function HourOfTheYear(const AValue: TDateTime): Word
1437: Function HoursBetween(const ANow, ATen: TDateTime): Int64
1438: Function HourSpan(const ANow, ATen: TDateTime): Double
1439: Function HSLToRGB1(const H, S, L: Single): TColor32;
1440: Function HTMLDecode(const AStr: String): String
1441: Function HTMLEEncode(const AStr: String): String
1442: Function HTMLEscape(const Str: string): string
1443: Function HtmlTable(DataSet: TDataSet; DataSetHandler: TDSTableProducer; MaxRows: Integer): string
1444: Function HTTPDecode(const AStr: String): string
1445: Function HTTPEncode(const AStr: String): string
1446: Function Hypot(const X, Y: Extended): Extended
1447: Function IBMax(n1, n2: Integer): Integer
1448: Function IBMin(n1, n2: Integer): Integer
1449: Function IBRandomString(iLength: Integer): String
1450: Function IBRandomInteger(iLow, iHigh: Integer): Integer
1451: Function IBStripString(st: String; CharsToStrip: String): String
1452: Function IBFormatIdentifier(Dialect: Integer; Value: String): String
1453: Function IBFormatIdentifierValue(Dialect: Integer; Value: String): String
1454: Function IBExtractIdentifier(Dialect: Integer; Value: String): String
1455: Function IBQuoteIdentifier(Dialect: Integer; Value: String): String
1456: Function IBAddIBParamSQLForDetail(Params: TParams; SQL: string; Native: Boolean; Dialect: Integer): string
1457: Procedure IBDecomposeDatabaseName(DatabaseName: String; var ServerName, Protocol, DatabasePath: String)
1458: Function IconToBitmap(Ico: HICON): TBitmap
1459: Function IconToBitmap2(Ico: HICON; Size: Integer; TransparentColor: TColor): TBitmap
1460: Function IconToBitmap3(Ico: HICON; Size: Integer; TransparentColor: TColor): TBitmap
1461: Function IdentToCharset(const Ident: string; var CharSet: Longint): Boolean)
1462: Function IdentToColor(const Ident: string; var Color: Longint): Boolean)
1463: Function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1464: Function IdGetDefaultCharSet: TIdCharSet
1465: Function IDispatchInvoke(Self: IDispatch; ProperSet: Boolean; const Name: String; Par: array of variant): variant
1466: Function IdPorts2: TStringList
1467: Function IdToMib(const Id: string): string
1468: Function IdSHA1Hash(aphash: string): string;
1469: Function IdHashSHA1(aphash: string): string;
1470: Function IfStr(const bCondition: boolean; const sTrue: string; const sFalse: string): string
1471: Function IfThen(AValue: Boolean; const ATrue: string; AFalse: string): string;
1472: Function iif1(ATest: Boolean; const ATrue: Integer; const AFalse: Integer): Integer;
1473: Function iif2(ATest: Boolean; const ATrue: string; const AFalse: string): string;
1474: Function iif3(ATest: Boolean; const ATrue: Boolean; const AFalse: Boolean): Boolean;
1475: Function ImportTest(S1: string; s2: longint; s3: Byte; s4: word; var s5: string): string;
1476: Function IncDay(const AValue: TDateTime; const ANumberOfDays: Integer): TDateTime
1477: Function IncHour(const AValue: TDateTime; const ANumberOfHours: Int64): TDateTime
1478: Function IncLimit(var B: Byte; const Limit: Byte; const Incr: Byte): Byte;
1479: Function IncLimit1(var B: Shortint; const Limit: Shortint; const Incr: Shortint): Shortint;
1480: Function IncLimit2(var B: Smallint; const Limit: Smallint; const Incr: Smallint): Smallint;
1481: Function IncLimit3(var B: Word; const Limit: Word; const Incr: Word): Word;
1482: Function IncLimit4(var B: Integer; const Limit: Integer; const Incr: Integer): Integer;
1483: Function IncLimit5(var B: Cardinal; const Limit: Cardinal; const Incr: Cardinal): Cardinal;
1484: Function IncLimit6(var B: Int64; const Limit: Int64; const Incr: Int64): Int64;
1485: Function IncLimitClamp(var B: Byte; const Limit: Byte; const Incr: Byte): Byte;
1486: Function IncLimitClamp1(var B: Shortint; const Limit: Shortint; const Incr: Shortint): Shortint;

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1487: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint) : Smallint;
1488: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word) : Word;
1489: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer) : Integer;
1490: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal) : Cardinal;
1491: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64) : Int64;
1492: Function IncludeTrailingBackslash( S : string) : string
1493: function IncludeTrailingBackslash(const S : string) : string
1494: Function IncludeTrailingPathDelimiter( const APath : string) : string
1495: Function IncludeTrailingPathDelimiter( S : string) : string
1496: function IncludeTrailingPathDelimiter(const S : string) : string
1497: Function IncludeTrailingSlash( const APath : string) : string
1498: Function IncMilliSecond( const AValue : TDateTime; const ANumberOfMilliSeconds : Int64) : TDateTime
1499: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64) : TDateTime
1500: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer) : TDateTime
1501: Function IncMonth(const DateTime : TDateTime; NumberOfMonths : Integer) : TDateTime
1502: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64) : TDateTime
1503: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer) : TDateTime
1504: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer) : TDateTime
1505: Function IndexOf( AClass : TClass) : Integer
1506: Function IndexOf( AComponent : TComponent) : Integer
1507: Function IndexOf( AObject : TObject) : Integer
1508: Function INDEXOF( const ANAME : String) : INTEGER
1509: Function IndexOf( const DisplayName : string) : Integer
1510: Function IndexOf( const Item : TBookmarkStr) : Integer
1511: Function IndexOf( const S : WideString) : Integer
1512: Function IndexOf( const View : TJclFileMappingView) : Integer
1513: Function INDEXOF( FIELD : TFIELD) : INTEGER
1514: Function IndexOf( ID : LCID) : Integer
1515: Function INDEXOF( ITEM : TMENUITEM) : INTEGER
1516: Function IndexOf( Value : TListItem) : Integer
1517: Function IndexOf( Value : TTreeNode) : Integer
1518: function IndexOf(const S : string) : Integer;
1519: Function IndexOfName( const Name : WideString) : Integer
1520: function IndexOfName(Name : string) : Integer;
1521: Function IndexOfObject( AObject : TObject) : Integer
1522: function IndexOfObject(AObject:TObject):Integer
1523: Function IndexOfTabAt( X, Y : Integer) : Integer
1524: Function IndexStr( const AText : string; const AValues : array of string) : Integer
1525: Function IndexText( const AText : string; const AValues : array of string) : Integer
1526: Function IndexOfInteger( AList : TStringList; Value : Variant) : Integer
1527: Function IndexOfFloat( AList : TStringList; Value : Variant) : Integer
1528: Function IndexOfDate( AList : TStringList; Value : Variant) : Integer
1529: Function IndexOfString( AList : TStringList; Value : Variant) : Integer
1530: Function IndyCompareStr( const A1 : string; const A2 : string) : Integer
1531: Function IndyGetHostName : string
1532: Function IndyInterlockedDecrement( var I : Integer) : Integer
1533: Function IndyInterlockedExchange( var A : Integer; B : Integer) : Integer
1534: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer) : Integer
1535: Function IndyInterlockedIncrement( var I : Integer) : Integer
1536: Function IndyLowerCase( const A1 : string) : string
1537: Function IndyStrToBool( const AString : String) : Boolean
1538: Function IndyUpperCase( const A1 : string) : string
1539: Function InitCommonControl( CC : Integer) : Boolean
1540: Function InitTempPath : string
1541: Function InMainThread : boolean
1542: Function InOpArray( W : WideChar; sets : array of WideChar) : boolean
1543: Function Input: Text)
1544: Function InputBox( const ACaption, APrompt, ADefault : string) : string
1545: Function InputBox(const ACaption: string; const APrompt: string; const ADefault: string): string)
1546: Function InputLn(const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1547: Function InputQuery( const ACaption, APrompt : string; var Value : string) : Boolean
1548: Function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean)
1549: Function InquireSignal( RtlSigNum : Integer) : TSignalState
1550: Function InRanger( const A, Min, Max : Double) : Boolean
1551: Function Insert( Index : Integer) : TCollectionItem
1552: Function Insert( Index : Integer) : TComboExItem
1553: Function Insert( Index : Integer) : THeaderSection
1554: Function Insert( Index : Integer) : TListItem
1555: Function Insert( Index : Integer) : TStatusPanel
1556: Function Insert( Index : Integer) : TWorkArea
1557: Function Insert( Index : LongInt; const Text : string) : LongInt
1558: Function Insert( Sibling : TTreeNode; const S : string) : TTreeNode
1559: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM) : INTEGER
1560: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM) : INTEGER
1561: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1562: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
1563: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1564: Function Instance : Longint
1565: function InstanceSize: Longint
1566: Function Int(e : Extended) : Extended;
1567: function Int64ToStr(i: Int64): String;
1568: Function IntegerToBcd( const AValue : Integer) : TBcd
1569: Function Intensity( const Color32 : TColor32) : Integer;
1570: Function Intensity( const R, G, B : Single) : Single;
1571: Function InterestPayment(const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1572: Function InterestRate(NPeriods:Integer;const Payment,PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime): Extended
1573: Function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean

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1574: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1575: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1576: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1577: function IntersectRect(out Rect: TRect; const R1, R2: TRect): Boolean)
1578: Function IntMibToStr( const Value : string) : string
1579: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1580: Function IntToBin( Value : cardinal) : string
1581: Function IntToHex( Value : Integer; Digits : Integer) : string;
1582: function IntToHex(a: integer; b: integer): string;
1583: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1584: function IntToHex64(Value: Int64; Digits: Integer): string)
1585: Function IntTo3Str( Value : Longint; separator: string) : string
1586: Function inttobool( aInt : LongInt) : Boolean
1587: function IntToStr(i: Int64): String;
1588: Function IntToStr64(Value: Int64): string)
1589: function IOResult: Integer
1590: Function IPv6AddressToStr(const AValue: TIdIPv6Address): string
1591: Function IsAccel(VK: Word; const Str: string): Boolean
1592: Function IsAddressInNetwork( Address : String) : Boolean
1593: Function IsAdministrator : Boolean
1594: Function IsAlias( const Name : string) : Boolean
1595: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1596: Function IsASCII( const AByte : Byte) : Boolean;
1597: Function IsASCIILDH( const AByte : Byte) : Boolean;
1598: Function IsAssembly(const FileName: string): Boolean;
1599: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1600: Function IsBinary(const AChar : Char) : Boolean
1601: function IsConsole: Boolean)
1602: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1603: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean)
1604: Function IsDelphiDesignMode : boolean
1605: Function IsDelphiRunning : boolean
1606: Function IsDFASState : boolean
1607: Function IsDirectory( const FileName : string) : Boolean
1608: Function IsDomain( const S : String) : Boolean
1609: function IsDragObject(Sender: TObject): Boolean;
1610: Function IsEditing : Boolean
1611: Function ISEMPTY : BOOLEAN
1612: Function IsEqual( Value : TParameters) : Boolean
1613: Function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1614: function IsEqualGUID(const guid1, guid2: TGUID): Boolean)
1615: Function IsFirstNode : Boolean
1616: Function IsFloatZero( const X : Float) : Boolean
1617: Function IsFormatRegistered( Extension, AppID : string) : Boolean
1618: Function IsFormOpen(const FormName: string): Boolean;
1619: Function IsFQDN( const S : String) : Boolean
1620: Function IsGrayScale : Boolean
1621: Function IsHex( AChar : Char) : Boolean;
1622: Function IsHexString(const AString: string): Boolean;
1623: Function IsHostname( const S : String) : Boolean
1624: Function IsInfinite( const AValue : Double) : Boolean
1625: Function IsInLeapYear( const AValue : TDateTime) : Boolean
1626: Function IsInternet: boolean;
1627: Function IsLeadChar( Ach : Char) : Boolean
1628: Function IsLeapYear( Year : Word) : Boolean
1629: function IsLeapYear(Year: Word): Boolean)
1630: function IsLibrary: Boolean)
1631: Function ISLINE : BOOLEAN
1632: Function IsLinkedTo( DataSet : TDataSet) : Boolean
1633: Function ISLINKEDTO( DATASOURCE : TDATASOURCE) : BOOLEAN
1634: Function IsLiteralChar( const EditMask : string; Offset : Integer) : Boolean
1635: Function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1636: Function IsMainAppWindow( Wnd : HWND) : Boolean
1637: Function IsMediaPresentInDrive( Drive : Char) : Boolean
1638: function IsMemoryManagerSet: Boolean)
1639: Function IsMultiTableQuery( const SQL : WideString) : Boolean
1640: function IsMultiThread: Boolean)
1641: Function IsNumeric( AChar : Char) : Boolean;
1642: Function IsNumeric2( const AString : string) : Boolean;
1643: Function IsOctal( AChar : Char) : Boolean;
1644: Function IsOctalString(const AString: string) : Boolean;
1645: Function IsPathDelimiter( S : string; Index : Integer) : Boolean
1646: function IsPathDelimiter(const S: string; Index: Integer): Boolean)
1647: Function IsPM( const AValue : TDateTime) : Boolean
1648: Function IsPositiveFloatArray( const X : TDynFloatArray) : Boolean
1649: Function IsPrimeFactor( const F, N : Cardinal) : Boolean
1650: Function IsPrimeRM( N : Cardinal) : Boolean //rabin miller
1651: Function IsPrimeTD( N : Cardinal) : Boolean //trial division
1652: Function IsPrivilegeEnabled( const Privilege : string) : Boolean
1653: Function ISqrt( const I : Smallint) : Smallint
1654: Function IsReadOnly(const Filename: string): boolean;
1655: Function IsRectEmpty( const Rect : TRect) : Boolean
1656: function IsRectEmpty(const Rect: TRect): Boolean)
1657: Function IsRelativePrime( const X, Y : Cardinal) : Boolean
1658: Function ISRIGHTTOLEFT : BOOLEAN
1659: function IsRightToLeft: Boolean
1660: Function IsSameDay( const AValue, ABasis : TDateTime) : Boolean
1661: Function ISSEQUENCED : BOOLEAN
1662: Function IsSystemModule( const Module : HMODULE) : Boolean

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1663: Function IsSystemResourcesMeterPresent : Boolean
1664: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
1665: Function IsToday( const AValue : TDateTime) : Boolean
1666: function IsToday(const AValue: TDateTime): Boolean;
1667: Function IsTopDomain( const AStr : string) : Boolean
1668: Function IsUTF8LeadByte( Lead : Char) : Boolean
1669: Function IsUTF8String( const s : UTF8String) : Boolean
1670: Function IsUTF8TrailByte( Lead : Char) : Boolean
1671: Function ISVALIDCHAR( INPUTCHAR : CHAR) : BOOLEAN
1672: Function IsValidDate( const AYear, AMonth, ADay : Word) : Boolean
1673: Function IsValidDateDay( const AYear, ADayOfYear : Word) : Boolean
1674: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word) : Boolean
1675: Function IsValidDateTime(const AYear, AMonth, ADay, AHour, AMinute, ASecond, AMilliSecond: Word): Boolean
1676: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word) : Boolean
1677: Function IsValidIdent( Ident : string) : Boolean
1678: function IsValidIdent(const Ident: string; AllowDots: Boolean): Boolean)
1679: Function IsValidIP( const S : String) : Boolean
1680: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word) : Boolean
1681: Function IsValidISBN( const ISBN : AnsiString) : Boolean
1682: Function IsVariantManagerSet: Boolean; //deprecated;
1683: Function IsVirtualPcGuest : Boolean;
1684: Function IsVmWareGuest : Boolean;
1685: Function IsVCLControl(Handle: HWND): Boolean;
1686: Function IsWhiteString( const AStr : String) : Boolean
1687: Function IsWindowResponding( Wnd : HWND; Timeout : Integer) : Boolean
1688: Function IsWoW64: boolean;
1689: Function IsWin64: boolean;
1690: Function IsWow64String(var s: string): Boolean;
1691: Function IsWin64String(var s: string): Boolean;
1692: Function IsWindowsVista: boolean;
1693: Function isPowerof2(num: int64): boolean;
1694: Function powerOf2(exponent: integer): int64;
1695: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1696: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1697: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1698: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1699: function ITEMATPOS(POS:TPOINT;EXISTING:BOOLEAN):INTEGER
1700: Function ItemRect( Index : Integer) : TRect
1701: function ITEMRECT(INDEX:INTEGER):TRECT
1702: Function ItemWidth( Index : Integer) : Integer
1703: Function JavahashCode(val: string): Integer;
1704: Function JosephusG(n,k: integer; var graphout: string): integer;
1705: Function JulianDateToDateTime( const AValue : Double) : TDateTime
1706: Function JvMessageBox( const Text, Caption : string; Flags : DWORD) : Integer;
1707: Function JvMessageBox1( const Text : string; Flags : DWORD) : Integer;
1708: Function KeepAlive : Boolean
1709: Function KeysToShiftState(Keys: Word): TShiftState;
1710: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1711: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1712: Function KeyboardStateToShiftState: TShiftState; overload;
1713: Function Languages : TLanguages
1714: Function Last : TClass
1715: Function Last : TComponent
1716: Function Last : TObject
1717: Function LastDelimiter( Delimiters, S : string) : Integer
1718: function LastDelimiter(const Delimiters: string; const S: string): Integer)
1719: Function LastPos( const ASubstr : string; const AStr : string) : Integer
1720: Function Latitude2WGS84(lat: double): double;
1721: Function LCM(m,n:longint):longint;
1722: Function LCMJ( const X, Y : Cardinal) : Cardinal
1723: Function Ldexp( const X : Extended; const P : Integer) : Extended
1724: Function LeftStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
1725: Function LeftStr( const AText : WideString; const ACount : Integer) : WideString;
1726: function Length: Integer;
1727: Procedure LetFileList(FileList: TStringlist; apath: string);
1728: function lengthmp3(mp3path: string):integer;
1729: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect) : Boolean;
1730: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean;
1731: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1732: function LineStart(Buffer, BufPos: PChar): PChar
1733: function LineStart(Buffer, BufPos: PChar): PChar)
1734: function ListSeparator: char;
1735: function Ln(x: Extended): Extended;
1736: Function LnXP1( const X : Extended) : Extended
1737: function Lo(vdat: word): byte;
1738: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1739: Function LoadedModulesList( const List : TStringList; ProcessID : DWORD; HandlesOnly : Boolean) : Boolean
1740: Function LoadFilesAsString( const FileName : string) : string
1741: Function LoadFromFile( const FileName : string) : TBitmapLoader
1742: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1743: Function LoadPackage(const Name: string): HMODULE
1744: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1745: Function LoadStr( Ident : Integer) : string
1746: Function LoadString(Instance: Longint; Ident: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1747: Function LoadWideStr( Ident : Integer) : WideString
1748: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1749: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HRESULT
1750: Function LockServer( fLock : LongBool) : HRESULT

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1751: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1752: Function Log( const X : Extended) : Extended
1753: Function Log10( const X : Extended) : Extended
1754: Function Log2( const X : Extended) : Extended
1755: Function LogBase10(X: Float): Float;
1756: Function LogBase2(X: Float): Float;
1757: Function LogBaseN(Base, X: Float): Float;
1758: Function LogN( const Base, X : Extended) : Extended
1759: Function LogOffOS : Boolean
1760: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1761: Function LoginDialogEx(const ADatabaseName:string;var AUserName,
    APassword:string;NameReadOnly:Boolean):Boolean;
1762: Function LongDateFormat: string;
1763: Function LongTimeFormat: string;
1764: Function LongWordToFourChar( ACardinal : LongWord) : string
1765: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1766: Function LookupName( const name : string) : TInAddr
1767: Function LookupService( const service : string) : Integer
1768: Function Low: Int64;
1769: Function LowerCase( S : string) : string
1770: Function Lowercase(s : AnyString) : AnyString;
1771: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1772: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1773: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1774: Function MainInstance: longword
1775: Function MainThreadID: longword
1776: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1777: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1778: Function MakeCanonicalIPv4Address( const AAddr : string) : string
1779: Function MakeCanonicalIPv6Address( const AAddr : string) : string
1780: Function MakeDIB( out Bitmap : PBitmapInfo) : Integer
1781: Function MakeDWordIntoIPv4Address( const ADWord : Cardinal) : string
1782: Function MakeLong(A, B: Word): Longint)
1783: Function MakeTempFilename( const APath : String) : string
1784: Function MakeValidFileName( const Str : string) : string
1785: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1786: Function MakeWord(A, B: Byte): Word)
1787: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1788: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1789: Function MapValues( Mapping : string; Value : string) : string
1790: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1791: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1792: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1793: Function MaskGetFldSeparator( const EditMask : string) : Integer
1794: Function MaskGetMaskBlank( const EditMask : string) : Char
1795: Function MaskGetMaskSave( const EditMask : string) : Boolean
1796: Function MaskIntLiteralToChar( IChar : Char) : Char
1797: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1798: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1799: Function MaskString( Mask, Value : String) : String
1800: Function Match( const sString : string) : TniRegularExpressionMatchResul
1801: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1802: Function Matches( const Filename : string) : Boolean
1803: Function MatchesMask( const Filename, Mask : string) : Boolean
1804: Function MatchStr( const AText : string; const AValues : array of string) : Boolean
1805: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1806: Function Max( AValueOne, AValueTwo : Integer) : Integer
1807: Function Max(const x,y: Integer): Integer;
1808: Function Max1( const B1, B2 : Shortint) : Shortint;
1809: Function Max2( const B1, B2 : Smallint) : Smallint;
1810: Function Max3( const B1, B2 : Word) : Word;
1811: Function Max3(const x,y,z: Integer): Integer;
1812: Function Max4( const B1, B2 : Integer) : Integer;
1813: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1814: Function Max6( const B1, B2 : Int64) : Int64;
1815: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1816: Function MaxFloat( const X, Y : Float) : Float
1817: Function MaxFloatArray( const B : TDynFloatArray) : Float
1818: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1819: Function MaxIntValue(const Data: array of Integer):Integer)
1820: Function MaxJ( const B1, B2 : Byte) : Byte;
1821: Function MaxPath: string;
1822: Function MaxValue(const Data: array of Double): Double)
1823: Function MaxCalc( const Formula : string) : Extended //math expression parser
1824: Procedure MaxCalcF( const Formula : string); //out to console memo2
1825: Function MD5(const fileName: string): string;
1826: Function Mean( const Data : array of Double) : Extended
1827: Function Median( const X : TDynFloatArray) : Float
1828: Function Memory : Pointer
1829: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer) : Integer
1830: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1831: Function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1832: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1833: Function MessageDlg1(const
    Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1834: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
    Y:Integer):Integer;
1835: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
    Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;

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1836: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
Longint; X, Y : Integer; const HelpFileName : string) : Integer;
1837: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx
: Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn) : Integer;
1838: Function MibToId( Mib : string) : string
1839: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer) : AnsiString;
1840: Function MidStr( const AText : WideString; const AStart, ACount : Integer) : WideString;
1841: Function microsecondsToCentimeters(mseconds: longint): longint; //340m/s speed of sound
1842: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64
1843: Function MIDIOut( DeviceID : Cardinal) : IJclMIDIOut
1844: Procedure GetMidiOutputs( const List : TStringList)
1845: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single) : TSingleNoteTuningData
1846: Function MIDINoteToStr( Note : TMIDINote) : string
1847: Function WinMidiOut( DeviceID : Cardinal) : IJclWinMidiOut
1848: Procedure GetMidiOutputs( const List : TStringList)
1849: Procedure MidiOutCheck( Code : MMResult)
1850: Procedure MidiInCheck( Code : MMResult)
1851: Function MilliSecondOf( const AValue : TDateTime) : Word
1852: Function MilliSecondOfDay( const AValue : TDateTime) : LongWord
1853: Function MilliSecondOfTheHour( const AValue : TDateTime) : LongWord
1854: Function MilliSecondOfTheMinute( const AValue : TDateTime) : LongWord
1855: Function MilliSecondOfTheMonth( const AValue : TDateTime) : LongWord
1856: Function MilliSecondOfTheSecond( const AValue : TDateTime) : Word
1857: Function MilliSecondOfTheWeek( const AValue : TDateTime) : LongWord
1858: Function MilliSecondOfTheYear( const AValue : TDateTime) : Int64
1859: Function MilliSecondsBetween( const ANow, AThen : TDateTime) : Int64
1860: Function MilliSecondSpan( const ANow, AThen : TDateTime) : Double
1861: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean) : Int64
1862: Function millis: int64;
1863: Function Min( AValueOne, AValueTwo : Integer) : Integer
1864: Function Min1( const B1, B2 : Shortint) : Shortint;
1865: Function Min2( const B1, B2 : Smallint) : Smallint;
1866: Function Min3( const B1, B2 : Word) : Word;
1867: Function Min4( const B1, B2 : Integer) : Integer;
1868: Function Min5( const B1, B2 : Cardinal) : Cardinal;
1869: Function Min6( const B1, B2 : Int64) : Int64;
1870: Function Min64( const AValueOne, AValueTwo : Int64) : Int64
1871: Function MinClientRect : TRect;
1872: Function MinClientRect1( IncludeScroller : Boolean) : TRect;
1873: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean) : TRect;
1874: Function MinFloat( const X, Y : Float) : Float
1875: Function MinFloatArray( const B : TDynFloatArray) : Float
1876: Function MinFloatArrayIndex( const B : TDynFloatArray) : Integer
1877: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer) : string
1878: Function MinimizeName( const Filename : TFileName; Canvas : TCanvas; MaxLen : Integer) : TFileName
1879: function MinimizeName(const Filename: String; Canvas: TCanvas;MaxLen: Integer): TFileName
1880: Function MinIntValue( const Data : array of Integer) : Integer
1881: function MinIntValue(const Data: array of Integer):Integer)
1882: Function MinJ( const B1, B2 : Byte) : Byte;
1883: Function MinuteOf( const AValue : TDateTime) : Word
1884: Function MinuteOfDay( const AValue : TDateTime) : Word
1885: Function MinuteOfTheHour( const AValue : TDateTime) : Word
1886: Function MinuteOfTheMonth( const AValue : TDateTime) : Word
1887: Function MinuteOfTheWeek( const AValue : TDateTime) : Word
1888: Function MinuteOfTheYear( const AValue : TDateTime) : LongWord
1889: Function MinutesBetween( const ANow, AThen : TDateTime) : Int64
1890: Function MinuteSpan( const ANow, AThen : TDateTime) : Double
1891: Function MinValue( const Data : array of Double) : Double
1892: function MinValue(const Data: array of Double): Double)
1893: Function MixerLeftRightToArray( Left, Right : Cardinal) : TDynCardinalArray
1894: Function MMCheck( const MciError : MCIERROR; const Msg : string) : MCIERROR
1895: Function ModFloat( const X, Y : Float) : Float
1896: Function ModifiedJulianDateToDateTime( const AValue : Double) : TDateTime
1897: Function Modify( const Key : string; Value : Integer) : Boolean
1898: Function ModuleCacheID : Cardinal
1899: Function ModuleFromAddr( const Addr : Pointer) : HMODULE
1900: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo) : TMonitor
1901: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo) : TMonitor
1902: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo) : TMonitor
1903: Function MonthOf( const AValue : TDateTime) : Word
1904: Function MonthOfTheYear( const AValue : TDateTime) : Word
1905: Function MonthsBetween( const ANow, AThen : TDateTime) : Integer
1906: Function MonthSpan( const ANow, AThen : TDateTime) : Double
1907: Function MonthStr( DateTime : TDateTime) : string
1908: Function MouseCoord( X, Y : Integer) : TGridCoord
1909: Function MOVEBY( DISTANCE : INTEGER) : INTEGER
1910: Function MoveFile( Source, Dest : string; Flags : FILEOP_FLAGS) : Boolean
1911: Function MoveNext : Boolean
1912: Function MSecsToTimeStamp( MSecs : Comp) : TTimeStamp
1913: function MSecsToTimeStamp(MSecs: Comp): TTimeStamp)
1914: Function Name : string
1915: Function NetPresentValue(const Rate:Extended;const CashFlows:array of
Double;PaymentTime:TPaymentTime):Extended
1916: function NetworkVolume(DriveChar: Char): string
1917: Function NEWBOTMOLINE : INTEGER
1918: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant) : PExprNode
1919: Function NEWITEM( const ACAPTION : String; ASHORTCUT : TSHORTCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK :
TNOTIFYEVENT; HCTX : WORD; const ANAME : String) : TMENUITEM
1920: Function NEWLINE : TMENUITEM

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1921: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem ) : TMAINMENU
1922: Function NewNode(Kind: TExprNodeKind; Operator:TCANOperator; const Data:Variant; Left,
Right:PExprNode):PExprNode
1923: Function NEWPOPMENU(OWNER:TCOMPONENT;const ANAME:String; ALIGNMENT:TPOPOPALIGNMENT;AUTOPOPUP:BOOLEAN;
const ITEMS : array of TCMENUITEM) : TPOPMENU
1924: Function NewState( eType : TniRegularExpressionStateType ) : TniRegularExpressionState
1925: Function NEWSUBMENU(const ACAPT:String;HCTX:WORD;const ANAME:String;ITEMS:array of
TMenuItem;AENABLED:BOOL): TMenuItem
1926: Function NEWTOPLINE : INTEGER
1927: Function Next : TIdAuthWhatsNext
1928: Function NextCharIndex( S : String; Index : Integer ) : Integer
1929: Function NextRecordSet : TCustomSQLDataSet
1930: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1931: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLToken ) : TSQLToken;
1932: Function NextToken : Char
1933: Function nextToken : WideString
1934: function NextToken:Char
1935: Function Norm( const Data : array of Double ) : Extended
1936: Function NormalizeAngle( const Angle : Extended ) : Extended
1937: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
1938: Function NormalizeRect( const Rect : TRect ) : TRect
1939: function NormalizeRect(const Rect: TRect): TRect;
1940: Function Now : TDateTime
1941: function Now2: tDateTime
1942: Function NumProcessThreads : integer
1943: Function NumThreadCount : integer
1944: Function NthDayOfWeek( const AValue : TDateTime ) : Word
1945: Function NtProductType : TntProductType
1946: Function NtProductTypeString : string
1947: function Null: Variant;
1948: Function NullPoint : TPoint
1949: Function NullRect : TRect
1950: Function Null2Blank(aString:String):String;
1951: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime ) : Extended
1952: Function NumIP : integer
1953: function Odd(x: Longint): boolean;
1954: Function OffsetFromUTC : TDateTime
1955: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
1956: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
1957: function OffsetRect(var Rect: TRect; DX:Integer; DY:Integer): Boolean)
1958: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
1959: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
1960: Function OldBCDToCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
1961: Function OldCurrToBCD(const Curr:Currency; var BCD:TBcd; Precision:Integer;Decimals:Integer): Boolean
1962: function OpenBit:Integer
1963: Function OpenDatabase : TDatabase
1964: Function OpenDatabase( const DatabaseName : string ) : TDatabase
1965: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
1966: Function OpenObject( Value : PChar ) : Boolean;
1967: Function OpenObject1( Value : string ) : Boolean;
1968: Function OpenSession( const SessionName : string ) : TSession
1969: Function OpenVolume( const Drive : Char ) : THandle
1970: function OrdFourByteToCardinal(ABYTE1, AByte2, AByte3, AByte4 : Byte): Cardinal
1971: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
1972: Function OrdToBinary( const Value : Byte ) : string;
1973: Function OrdToBinary1( const Value : Shortint ) : string;
1974: Function OrdToBinary2( const Value : Smallint ) : string;
1975: Function OrdToBinary3( const Value : Word ) : string;
1976: Function OrdToBinary4( const Value : Integer ) : string;
1977: Function OrdToBinary5( const Value : Cardinal ) : string;
1978: Function OrdToBinary6( const Value : Int64 ) : string;
1979: Function OSCheck( RetVal : Boolean ) : Boolean
1980: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
1981: Function OSIdentToString( const OSIdent : DWORD ) : string
1982: Function Output: Text)
1983: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
1984: Function Owner : TCustomListView
1985: function Owner : TPersistent
1986: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
1987: Function PadL( pStr : String; pLth : integer ) : String
1988: Function PadL(s : AnyString;I : longInt) : AnyString;
1989: Function PadLCh( pStr : String; pLth : integer; pChr : char ) : String
1990: Function PadR( pStr : String; pLth : integer ) : String
1991: Function PadR(s : AnyString;I : longInt) : AnyString;
1992: Function PadRCh( pStr : String; pLth : integer; pChr : char ) : String
1993: Function PadString( const AString : String; const ALen : Integer; const AChar : Char ) : String
1994: Function Padz(s : AnyString;I : longInt) : AnyString;
1995: Function PaethPredictor( a, b, c : Byte ) : Byte
1996: Function PARAMBYNAME( const VALUE : String ) : TPARAM
1997: Function ParamByName( const Value : WideString ) : TParameter
1998: Function ParamCount: Integer
1999: Function ParamsEncode( const ASrc : string ) : string
2000: function ParamStr(Index: Integer): string)
2001: Function ParseDate( const DateStr : string ) : TDateTime
2002: Function PARSESQL( SQL : String; DOCREATE : BOOLEAN ) : String
2003: Function ParseSQL( SQL : WideString; DoCreate : Boolean ) : WideString
2004: Function PathAddExtension( const Path, Extension : string ) : string
2005: Function PathAddSeparator( const Path : string ) : string

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2006: Function PathAppend( const Path, Append : string ) : string
2007: Function PathBuildRoot( const Drive : Byte ) : string
2008: Function PathCanonicalize( const Path : string ) : string
2009: Function PathCommonPrefix( const Path1, Path2 : string ) : Integer
2010: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string;
2011: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int;CmpFmt:TCompactPath):string;
2012: Function PathEncode( const ASrc : string ) : string
2013: Function PathExtractFileDirFixed( const S : AnsiString ) : AnsiString
2014: Function PathExtractFileNameNoExt( const Path : string ) : string
2015: Function PathExtractPathDepth( const Path : string; Depth : Integer ) : string
2016: Function PathGetDepth( const Path : string ) : Integer
2017: Function PathGetLongName( const Path : string ) : string
2018: Function PathGetLongName2( Path : string ) : string
2019: Function PathGetShortName( const Path : string ) : string
2020: Function PathIsAbsolute( const Path : string ) : Boolean
2021: Function PathIsChild( const Path, Base : AnsiString ) : Boolean
2022: Function PathIsDiskDevice( const Path : string ) : Boolean
2023: Function PathIsUNC( const Path : string ) : Boolean
2024: Function PathRemoveExtension( const Path : string ) : string
2025: Function PathRemoveSeparator( const Path : string ) : string
2026: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2027: Function Peek : Pointer
2028: Function Peek : TObject
2029: Function PERFORM(MSG:CARDINAL;WPARAM,LPARAM:LONGINT):LONGINT
2030: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime) : Extended
2031: function Permutation(npr, k: integer): extended;
2032: function PermutationInt(npr, k: integer): Int64;
2033: Function PermutationJ( N, R : Cardinal ) : Float
2034: Function Pi : Extended;
2035: Function PiE : Extended;
2036: Function PixelsToDialogsX( const Pixels : Word ) : Word
2037: Function PixelsToDialogsY( const Pixels : Word ) : Word
2038: Function PlaySound(s: pchar; flag,syncoflag: integer): boolean;
2039: Function Point( X, Y : Integer ) : TPoint
2040: function Point(X, Y: Integer): TPoint)
2041: Function PointAssign( const X, Y : Integer ) : TPoint
2042: Function PointDist( const P1, P2 : TPoint ) : Double;
2043: function PointDist(const P1,P2: TFloatPoint): Double;
2044: Function PointDist1( const P1, P2 : TFloatPoint ) : Double;
2045: function PointDist2(const P1,P2: TPoint): Double;
2046: Function PointEqual( const P1, P2 : TPoint ) : Boolean
2047: Function PointIsNull( const P : TPoint ) : Boolean
2048: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint ) : Double
2049: Function Poly( const X : Extended; const Coefficients : array of Double ) : Extended
2050: Function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
2051: Function IsTCPPOpen(dwPort : Word; ipAddressStr: String): boolean;
2052: Function Pop : Pointer
2053: Function Pop : TObject
2054: Function PopnStdDev( const Data : array of Double ) : Extended
2055: Function PopnVariance( const Data : array of Double ) : Extended
2056: Function PopulationVariance( const X : TDynFloatArray ) : Float
2057: function Pos(SubStr, S: AnyString): Longint;
2058: Function PosEqual( const Rect : TRect ) : Boolean
2059: Function PosEx( const SubStr, S : string; Offset : Integer ) : Integer
2060: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt ) : Integer
2061: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2062: Function Post1( AURL : string; const ASource : TString ) : string;
2063: Function Post2( AURL : string; const ASource : TStream ) : string;
2064: Function Post3( AURL : string; const ASource : TIdMultiPartFormDataStream ) : string;
2065: Function PostData( const UserData : WideString; const CheckSum : DWORD ) : Boolean
2066: Function PostData( const UserData : WideString; const CheckSum : integer ) : Boolean
2067: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2068: Function Power( const Base, Exponent : Extended ) : Extended
2069: Function PowerBig(aval, n:integer): string;
2070: Function PowerIntJ( const X : Float; N : Integer ) : Float;
2071: Function PowerJ( const Base, Exponent : Float ) : Float;
2072: Function PowerOffOS : Boolean
2073: Function PreformatDateString( Ps : string ) : string
2074: Function PresentValue(const Rate:Extend;NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2075: Function PrimeFactors( N : Cardinal ) : TDynCardinalArray
2076: Function Printer : TPrinter
2077: Function ProcessPath2( const ABasePath:String; const APath: String; const APathDelim:string) : string
2078: Function ProcessResponse : TIdHTTPWhatsNext
2079: Function ProduceContent : string
2080: Function ProduceContentFromStream( Stream : TStream ) : string
2081: Function ProduceContentFromString( const S : string ) : string
2082: Function ProgIDToClassID(const ProgID: string): TGUID;
2083: Function PromptDataLinkFile( ParentHandle : THandle; InitialFile : WideString ) : WideString
2084: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString ) : WideString
2085: Function PromptForFileName( var AFileName : string; const AFilter : string; const ADefaultExt : string;
const ATitle : string; const AInitialDir : string; SaveDialog: Boolean ) : Boolean
2086: function PromptForFileName(var AFileName: string; const AFilter: string; const ADefaultExt: string;const
ATitle: string; const AInitialDir: string; SaveDialog: Boolean): Boolean)
2087: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FileName,Output:String):Boolean
2088: Function PtInRect( const Rect : TRect; const P : TPoint ) : Boolean
2089: function PtInRect(const Rect: TRect; const P: TPoint): Boolean)

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2090: Function Push( AItem : Pointer) : Pointer
2091: Function Push( AObject : TObject) : TObject
2092: Function Put1( AURL : string; const ASource : TStream) : string;
2093: Function Pythagoras( const X, Y : Extended) : Extended
2094: Function queryDLLInterface( var queryList : TStringList) : TStringList
2095: Function queryDLLInterfaceTwo( var queryList : TStringList) : TStringList
2096: Function QueryInterface(const IID: TGUID; out Obj): HRESULT, CdStdCall
2097: Function queryPerformanceCounter2(mse: int64): int64;
2098: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2099: //Function QueryPerformanceFrequency(mse: int64): boolean;
2100: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2101: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2102: Procedure QueryPerformanceCounter1(var aC: Int64);
2103: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2104: Function Quote( const ACommand : String) : SmallInt
2105: Function QuotedStr( S : string) : string
2106: Function RadToCycle( const Radians : Extended) : Extended
2107: Function RadToDeg( const Radians : Extended) : Extended
2108: Function RadToDeg( const Value : Extended) : Extended;
2109: Function RadToDeg1( const Value : Double) : Double;
2110: Function RadToDeg2( const Value : Single) : Single;
2111: Function RadToGrad( const Radians : Extended) : Extended
2112: Function RadToGrad( const Value : Extended) : Extended;
2113: Function RadToGrad1( const Value : Double) : Double;
2114: Function RadToGrad2( const Value : Single) : Single;
2115: Function RandG( Mean, StdDev : Extended) : Extended
2116: function Random(const ARange: Integer): Integer;
2117: function random2(a: integer): double
2118: function RandomE: Extended;
2119: function RandomF: Extended;
2120: Function RandomFrom( const AValues : array of string) : string;
2121: Function RandomRange( const AFrom, ATo : Integer) : Integer
2122: function randSeed: longint
2123: Function RawToDataColumn( ACol : Integer) : Integer
2124: Function Read : Char
2125: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint) : HRESULT
2126: function Read(Buffer: String; Count: LongInt): LongInt
2127: Function ReadBinaryStream( const Section, Name : string; Value : TStream) : Integer
2128: Function ReadBool( const Section, Ident : string; Default : Boolean) : Boolean
2129: Function ReadCardinal( const AConvert : boolean) : Cardinal
2130: Function ReadChar : Char
2131: Function ReadClient( var Buffer, Count : Integer) : Integer
2132: Function ReadDate( const Section, Name : string; Default : TDateTime) : TDateTime
2133: Function ReadDateTime( const Section, Name : string; Default : TDateTime) : TDateTime
2134: Function ReadFloat( const Section, Name : string; Default : Double) : Double
2135: Function ReadFromStack(const ARaiseExceptfDisconnected: Bool; ATimeout: Int; const ARaiseExceptonTimeout:
Boolean): Integer
2136: Function ReadInteger( const AConvert : boolean) : Integer
2137: Function ReadInteger( const Section, Ident : string; Default : Longint) : Longint
2138: Function ReadLn : string
2139: Function ReadLn( ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer) : string
2140: function ReadLn(question: string): string;
2141: Function ReadLnWait( AFailCount : Integer) : string
2142: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2143: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2144: Function ReadSmallInt( const AConvert : boolean) : SmallInt
2145: Function ReadString( const ABytes : Integer) : string
2146: Function ReadString( const Section, Ident, Default : string) : string
2147: Function ReadString( Count : Integer) : string
2148: Function ReadTime( const Section, Name : string; Default : TDateTime) : TDateTime
2149: Function ReadTimeStampCounter : Int64
2150: Function RebootOS : Boolean
2151: Function Receive( ATimeOut : Integer) : TReplyStatus
2152: Function ReceiveBuf( var Buf, Count : Integer) : Integer
2153: Function ReceiveLength : Integer
2154: Function ReceiveText : string
2155: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2156: Function ReceiveSerialText: string
2157: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word) : TDateTime
2158: Function RecodeDateTime(const AValue: TDateTime; const AYear, AMonth, ADay, AHour, AMin, ASec,
AMilliSec: Word): TDateTime
2159: Function RecodeDay( const AValue : TDateTime; const ADay : Word) : TDateTime
2160: Function RecodeHour( const AValue : TDateTime; const AHour : Word) : TDateTime
2161: Function RecodeMilliSecond( const AValue : TDateTime; const AMilliSecond : Word) : TDateTime
2162: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word) : TDateTime
2163: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word) : TDateTime
2164: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word) : TDateTime
2165: Function RecodeTime( const AValue : TDateTime; const AHour, AMinute, ASecond, AMilliSecond: Word): TDateTime
2166: Function RecodeYear( const AValue : TDateTime; const AYear : Word) : TDateTime
2167: Function Reconcile( const Results : OleVariant) : Boolean
2168: Function Rect( Left, Top, Right, Bottom : Integer) : TRect
2169: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect)
2170: Function Rect2( const ATopLeft, ABottomRight : TPoint) : TRect;
2171: Function RectAssign( const Left, Top, Right, Bottom : Integer) : TRect
2172: Function RectAssignPoints( const TopLeft, BottomRight : TPoint) : TRect
2173: Function RectBounds( const Left, Top, Width, Height : Integer) : TRect
2174: Function RectCenter( const R : TRect) : TPoint
2175: Function RectEqual( const R1, R2 : TRect) : Boolean
2176: Function RectHeight( const R : TRect) : Integer

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2177: Function RectIncludesPoint( const R : TRect; const Pt : TPoint) : Boolean
2178: Function RectIncludesRect( const R1, R2 : TRect) : Boolean
2179: Function RectIntersection( const R1, R2 : TRect) : TRect
2180: Function RectIntersectRect( const R1, R2 : TRect) : Boolean
2181: Function RectIsEmpty( const R : TRect) : Boolean
2182: Function RectIsNull( const R : TRect) : Boolean
2183: Function RectIsSquare( const R : TRect) : Boolean
2184: Function RectIsValid( const R : TRect) : Boolean
2185: Function RectsAreValid( R : array of TRect) : Boolean
2186: Function RectUnion( const R1, R2 : TRect) : TRect
2187: Function RectWidth( const R : TRect) : Integer
2188: Function RedComponent( const Color32 : TColor32) : Integer
2189: Function Refresh : Boolean
2190: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2191: Function RegisterConversionFamily( const ADescription : string) : TConvFamily
2192: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType) : Boolean;
2193: Function RegisterConversionType(const AFam:TConvFam;const ADescr:string;const AFact:Double):TConvType
2194: Function RegistryRead(keyHandle: Longint; keyPath, myField: String) : string;
2195: Function ReleaseDC(hwnd: HWND; hdc: HDC): integer;
2196: Function ReleaseHandle : HBITMAP
2197: Function ReleaseHandle : HENHMETAFILE
2198: Function ReleaseHandle : HICON
2199: Function ReleasePalette : HPALETTE
2200: Function RemainderFloat( const X, Y : Float) : Float
2201: Function Remove( AClass : TClass) : Integer
2202: Function Remove( AComponent : TComponent) : Integer
2203: Function Remove( AItem : Integer) : Integer
2204: Function Remove( AItem : Pointer) : Pointer
2205: Function Remove( AItem : TObject) : TObject
2206: Function Remove( AObject : TObject) : Integer
2207: Function RemoveBackslash( const PathName : string) : string
2208: Function RemoveDF( aString : String) : String //removes thousand separator
2209: Function RemoveDir( Dir : string) : Boolean
2210: Function RemoveDir(const Dir: string): Boolean)
2211: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2212: Function RemoveFileExt( const FileName : string) : string
2213: Function RemoveHeaderEntry( AHeader, AEntry : string) : string
2214: Function RenameFile( OldName, NewName : string) : Boolean
2215: Function RenameFile(const OldName: string; const NewName: string): Boolean)
2216: Function ReplaceStr( const AText, AFromText, AToText : string) : string
2217: Function ReplaceText( const AText, AFromText, AToText : string) : string
2218: Function Replicate(c : char;I : longInt) : String;
2219: Function Request : TWebRequest
2220: Function ResemblesText( const AText, AOther : string) : Boolean
2221: Function Reset : Boolean
2222: function Reset2(mypath: string):string;
2223: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2224: Function ResourceLoad( ResType : TResType; const Name : string; MaskColor : TColor) : Boolean
2225: Function Response : TWebResponse
2226: Function ResumeSupported : Boolean
2227: Function RETHINKHOTKEYS : BOOLEAN
2228: Function RETHINKLINES : BOOLEAN
2229: Function Retrieve( const MsgNum : Integer; AMsg : TIdMessage) : Boolean
2230: Function RetrieveCurrentDir : string
2231: Function RetrieveDeltas( const cdsArray : array of TClientDataset) : Variant
2232: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIdMessage) : Boolean
2233: Function RetrieveMailBoxSize : integer
2234: Function RetrieveMsgSize( const MsgNum : Integer) : Integer
2235: Function RetrieveProviders( const cdsArray : array of TClientDataset) : Variant
2236: Function RetrieveRaw( const MsgNum : Integer; const Dest : TStrings) : boolean
2237: Function ReturnMIMETYPE( var MediaType, EncType : String) : Boolean
2238: Function ReverseBits( Value : Byte) : Byte;
2239: Function ReverseBits1( Value : Shortint) : Shortint;
2240: Function ReverseBits2( Value : Smallint) : Smallint;
2241: Function ReverseBits3( Value : Word) : Word;
2242: Function ReverseBits4( Value : Cardinal) : Cardinal;
2243: Function ReverseBits4( Value : Integer) : Integer;
2244: Function ReverseBits5( Value : Int64) : Int64;
2245: Function ReverseBytes( Value : Word) : Word;
2246: Function ReverseBytes1( Value : Smallint) : Smallint;
2247: Function ReverseBytes2( Value : Integer) : Integer;
2248: Function ReverseBytes3( Value : Cardinal) : Cardinal;
2249: Function ReverseBytes4( Value : Int64) : Int64;
2250: Function ReverseString( const AText : string) : string
2251: Function ReverseDNSLookup(const IPAddrs:String;DNSServer:String;Timeout,Retries:Int;var
  HostName:String):Bool;
2252: Function Revert : HRESULT
2253: Function RGB(R,G,B: Byte): TColor;
2254: Function RGB2BGR( const Color : TColor) : TColor
2255: Function RGB2TColor( R, G, B : Byte) : TColor
2256: Function RGBToWebColorName( RGB : Integer) : string
2257: Function RGBToWebColorStr( RGB : Integer) : string
2258: Function RgbToHtml( Value : TColor) : string
2259: Function HtmlToRgb(const Value: string): TColor;
2260: Function RightStr( const AStr : String; Len : Integer) : String
2261: Function RightStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
2262: Function RightStr( const AText : WideString; const ACount : Integer) : WideString;
2263: Function ROL( AVal : LongWord; AShift : Byte) : LongWord
2264: Function ROR( AVal : LongWord; AShift : Byte) : LongWord

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2265: Function RotatePoint( Point : TFloatPoint; const Center : TFloatPoint; const Angle : Float) : TFloatPoint
2266: function RotatePoint(Point: TFloatPoint; const Center: TFloatPoint; const Angle: Double): TFloatPoint;
2267: Function Round(e : Extended) : Longint;
2268: Function Round64(e: extended): Int64;
2269: Function RoundAt( const Value : string; Position : SmallInt) : string
2270: Function RoundFrequency( const Frequency : Integer) : Integer
2271: Function RoundInt( Value : Integer; StepSize : Integer) : Integer
2272: Function RoundPoint( const X, Y : Double) : TPoint
2273: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double) : TRect
2274: Function RowCount : Integer
2275: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant
2276: Function RowRequest( Row : OleVariant; Options : TFetchOptions) : OleVariant
2277: Function RPos( const ASub, AIn : string; AStart : Integer) : Integer
2278: Function RRot( const Value : Byte; const Count : TBitRange) : Byte;
2279: Function RRot1( const Value : Word; const Count : TBitRange) : Word;
2280: Function RRot2( const Value : Integer; const Count : TBitRange) : Integer;
2281: Function RunDLL32(const ModuleNa,FuncName,CmdLine:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean
2282: Function RunningProcessesList( const List : TStringList; FullPath : Boolean) : Boolean
2283: Function S_AddBackSlash( const ADirName : string) : string
2284: Function S_AllTrim( const cStr : string) : string
2285: Function S_AtRepl( const cAT, cStr, cRepl : string) : string
2286: Function S_Cut( const cStr : string; const iLen : integer) : string
2287: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer) : integer
2288: Function S_DirExists( const ADir : string) : Boolean
2289: Function S_Empty( const cStr : string) : boolean
2290: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer) : string
2291: Function S_LargeFontsActive : Boolean
2292: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer) : Extended
2293: Function S_LTrim( const cStr : string) : string
2294: Function S_ReadNextTextLineFromStream( stream : TStream) : string
2295: Function S_RepeatChar( const iLen : integer; const AChar : Char) : String
2296: Function S_Rep1First( const cAT, cStr, cRepl : string) : string
2297: Function S_RoundDecimal( AValue : Extended; APlaces : Integer) : Extended
2298: Function S_RTrim( const cStr : string) : string
2299: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer) : string
2300: //Type TS_ShellExecuteCmd = (seCmdOpen,seCmdPrint,seCmdExplore);
2301: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd) : string
2302: Function S_Space( const iLen : integer) : String
2303: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2304: Function S_StrBlanksCuttooLong( const cStr : string; const iLen : integer) : string
2305: Function S_StrCRC32( const Text : string) : LongWORD
2306: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2307: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2308: Function S_StringtoUTF_8( const AString : string) : string
2309: Function S_StrLBlanks( const cStr : string; const iLen : integer) : string
2310: function S_StrToReal(const cStr: string; var R: Double): Boolean
2311: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean) : boolean
2312: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean) : string
2313: Function S_UTF_8ToString( const AString : string) : string
2314: Function S_WBox( const AText : string) : integer
2315: Function SameDate( const A, B : TDateTime) : Boolean
2316: function SameDate(const A, B: TDateTime): Boolean;
2317: Function SameDateTime( const A, B : TDateTime) : Boolean
2318: function SameDateTime(const A, B: TDateTime): Boolean;
2319: Function SameFileName( S1, S2 : string) : Boolean
2320: Function SameText( S1, S2 : string) : Boolean
2321: function SameText(const S1: string; const S2: string): Boolean)
2322: Function SameTime( const A, B : TDateTime) : Boolean
2323: function SameTime(const A, B: TDateTime): Boolean;
2324: function SameValue(const A, B: Extended; Epsilon: Extended): Boolean //overload;
2325: function SameValue1(const A, B: Double; Epsilon: Double): Boolean //overload;
2326: function SameValue2(const A, B: Single; Epsilon: Single): Boolean //overload;
2327: Function SampleVariance( const X : TDynFloatArray) : Float
2328: Function Sar( const Value : Shortint; const Count : TBitRange) : Shortint;
2329: Function Sar1( const Value : Smallint; const Count : TBitRange) : Smallint;
2330: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2331: Function SaveToFile( const AFileName : TFileName) : Boolean
2332: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2333: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2334: Function ScanF(const aformat: string; const args: array of const): string;
2335: Function SCREENTOCLIENT(POINT:TPOINT):TPOINT
2336: Function SearchBuf( Buf:PChar; BufLen:Integer;SelStart,SelLength:Integer;SearchString:String;Options:
TStringSearchOptions):PChar
2337: Function SearchBuf2(Buf: String;SelStart,SelLength:Integer; SearchString:
String;Options:TStringSearchOptions):Integer;
2338: function SearchRecattr: integer;
2339: function SearchRecExcludeAttr: integer;
2340: Function SearchRecFileSize64( const SearchRec : TSearchRec) : Int64
2341: function SearchRecname: string;
2342: function SearchRecsize: integer;
2343: function SearchRecTime: integer;
2344: Function Sec( const X : Extended) : Extended
2345: Function Secant( const X : Extended) : Extended
2346: Function SecH( const X : Extended) : Extended
2347: Function SecondOf( const AValue : TDateTime) : Word
2348: Function SecondOfTheDay( const AValue : TDateTime) : LongWord
2349: Function SecondOfTheHour( const AValue : TDateTime) : Word
2350: Function SecondOfTheMinute( const AValue : TDateTime) : Word
2351: Function SecondOfTheMonth( const AValue : TDateTime) : LongWord

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2352: Function SecondOfTheWeek( const AValue : TDateTime) : LongWord
2353: Function SecondOfTheYear( const AValue : TDateTime) : LongWord
2354: Function SecondsBetween( const ANow, ATen : TDateTime) : Int64
2355: Function SecondSpan( const ANow, ATen : TDateTime) : Double
2356: Function SectionExists( const Section : string) : Boolean
2357: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption) : Boolean
2358: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint) : HRESULT
2359: Function Seek(Offset:Longint;Origin:Word):LongInt
2360: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2361: Function SelectDirectory1( const Caption : string; const Root : WideString; var Directory : string;
Options : TSelectDirExtOpts; Parent : TWinControl) : Boolean;
2362: Function SelectImage( var AFileName : string; const Extensions, Filter : string) : Boolean
2363: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2364: Function SendBuf( var Buf, Count : Integer) : Integer
2365: Function SendCmd( const AOut : string; const AResponse : SmallInt) : SmallInt;
2366: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt) : SmallInt;
2367: Function SendKey( AppName : string; Key : Char) : Boolean
2368: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2369: Function SendStream( AStream : TStream) : Boolean
2370: Function SendStreamThenDrop( AStream : TStream) : Boolean
2371: Function SendText( const S : string) : Integer
2372: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2373: Function SendSerialText(Data: String): cardinal
2374: Function Sent : Boolean
2375: Function ServicesFilePath: string
2376: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer) : TColor32
2377: Function SetBit( const Value : Byte; const Bit : TBitRange) : Byte;
2378: Function SetBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2379: Function SetBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2380: Function SetBit3( const Value : Word; const Bit : TBitRange) : Word;
2381: Function SetBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2382: Function SetBit4( const Value : Integer; const Bit : TBitRange) : Integer;
2383: Function SetBit5( const Value : Int64; const Bit : TBitRange) : Int64;
2384: Function SetClipboard( NewClipboard : TClipboard) : TClipboard
2385: Function SetColorBlue( const Color : TColor; const Blue : Byte) : TColor
2386: Function SetColorFlag( const Color : TColor; const Flag : Byte) : TColor
2387: Function SetColorGreen( const Color : TColor; const Green : Byte) : TColor
2388: Function SetColorRed( const Color : TColor; const Red : Byte) : TColor
2389: Function SetCurrentDir( Dir : string) : Boolean
2390: function SetCurrentDir(const Dir: string): Boolean)
2391: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2392: Function SetDirCreation( const DirName : string; const DateTime : TDateTime) : Boolean
2393: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime) : Boolean
2394: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime) : Boolean
2395: Function SetDisplayResolution( const XRes, YRes : DWORD) : Longint
2396: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2397: Function SetEnvironmentVar( const Name, Value : string) : Boolean
2398: Function SetErrorProc( ErrorProc : TSocketErrorProc) : TSocketErrorProc
2399: Function SetFileCreation( const FileName : string; const DateTime : TDateTime) : Boolean
2400: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime) : Boolean
2401: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime) : Boolean
2402: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer) : Boolean
2403: function SETFOCUSEDCONTROL(CONTROL:TWINCONTROL):BOOLEAN
2404: Function SetLocalTime( Value : TDateTime) : boolean
2405: Function SetPrecisionTolerance( NewTolerance : Float) : Float
2406: Function SetPrinter( NewPrinter : TPrinter) : TPrinter
2407: Function SetRGBValue( const Red, Green, Blue : Byte) : TColor
2408: Function SetSequence( S, Localizar, Substituir : shortstring) : shortstring
2409: Function SetSize( libNewSize : Longint) : HRESULT
2410: Function SetUserObjectFullAccess( hUserObject : THandle) : Boolean
2411: Function Sgn( const X : Extended) : Integer
2412: function SHA1(const fileName: string): string;
2413: function SHA256(astr: string; amode: char): string
2414: function SHA512(astr: string; amode: char): string
2415: Function ShareMemoryManager : Boolean
2416: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2417: function ShellExecute2(hWnd: HWND; const FileName: string):integer; stdcall;
2418: function ShellExecute3(aFilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2419: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE) : TSHORTCUT
2420: Function SHORTCUTTOTEXT( SHORTCUT : TSHORTCUT) : String
2421: function ShortDateFormat: string;
2422: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
RTL:Bool;EllipsisWidth:Int):WideString
2423: function ShortTimeFormat: string;
2424: function SHOWMODAL:INTEGER
2425: function ShowWindow(C1: HWND; C2: integer): boolean;
2426: procedure ShowMemory //in Dialog
2427: function ShowMemory2: string;
2428: Function ShutDownOS : Boolean
2429: Function Signe( const X, Y : Extended) : Extended
2430: Function Sign( const X : Extended) : Integer
2431: Function Sin(e : Extended) : Extended;
2432: Function sinc( const x : Double) : Double
2433: Function SinJ( X : Float) : Float
2434: Function Size( const AFileName : String) : Integer
2435: function SizeOf: Longint;
2436: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer
2437: function SlashSep(const Path, S: String): String
2438: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended

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2439: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
2440: Function SmallPoint(X, Y: Integer): TSmallPoint)
2441: Function Soundex( const AText : string; ALength : TSoundexLength) : string
2442: Function SoundexCompare( const AText, AOther : string; ALength : TSoundexLength) : Integer
2443: Function SoundexInt( const AText : string; ALength : TSoundexIntLength) : Integer
2444: Function SoundexProc( const AText, AOther : string) : Boolean
2445: Function SoundexSimilar( const AText, AOther : string; ALength : TSoundexLength) : Boolean
2446: Function SoundexWord( const AText : string) : Word
2447: Function SourcePos : Longint
2448: function SourcePos:LongInt
2449: Function Split0( Str : string; const substr : string) : TStringList
2450: Procedure SplitNameValue( const Line : string; var Name, Value : string)
2451: Function SQLRequiresParams( const SQL : WideString) : Boolean
2452: Function Sqr(e : Extended) : Extended;
2453: Function Sqrt(e : Extended) : Extended;
2454: Function StartIP : String
2455: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean
2456: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2457: Function StartOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
2458: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime
2459: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
2460: Function StartOfAYear( const AYear : Word) : TDateTime
2461: Function StartOfTheDay( const AValue : TDateTime) : TDateTime
2462: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime
2463: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime
2464: Function StartOfTheYear( const AValue : TDateTime) : TDateTime
2465: Function StartsStr( const ASubText, AText : string) : Boolean
2466: Function StartsText( const ASubText, AText : string) : Boolean
2467: Function StartsWith( const ANSIStr, APattern : String) : Boolean
2468: Function StartsWith( const str : string; const sub : string) : Boolean
2469: Function StartsWithACE( const ABytes : TIdBytes) : Boolean
2470: Function StatusString( StatusCode : Integer) : string
2471: Function StdDev( const Data : array of Double) : Extended
2472: Function Stop : Float
2473: Function StopCount( var Counter : TJclCounter) : Float
2474: Function StoreColumns : Boolean
2475: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2476: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2477: Function StrAlloc( Size : Cardinal) : PChar
2478: function StrAlloc(Size: Cardinal): PChar)
2479: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2480: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2481: Function StrBufSize( Str : PChar) : Cardinal
2482: function StrBufSize(const Str: PChar): Cardinal)
2483: Function StrByteType( Str : PChar; Index : Cardinal) : TMBcsByteType
2484: function StrByteType(Str: PChar; Index: Cardinal): TMBcsByteType)
2485: Function StrCat( Dest : PChar; Source : PChar) : PChar
2486: function StrCat(Dest: PChar; const Source: PChar): PChar)
2487: Function StrCharLength( Str : PChar) : Integer
2488: Function StrComp( Str1, Str2 : PChar) : Integer
2489: function StrComp(const Str1: PChar; const Str2: PChar): Integer)
2490: Function StrCopy( Dest : PChar; Source : PChar) : PChar
2491: function StrCopy(Dest: PChar; const Source: PChar): PChar)
2492: Function Stream_to_AnsiString( Source : TStream) : ansistring
2493: Function Stream_to_Base64( Source : TStream) : ansistring
2494: Function Stream_to_decimalbytes( Source : TStream) : string
2495: Function Stream2WideString( oStream : TStream) : WideString
2496: Function StreamtoAnsiString( Source : TStream) : ansistring
2497: Function StreamToByte( Source : TStream) : string
2498: Function StreamToDecimalbytes( Source : TStream) : string
2499: Function StreamtoOrd( Source : TStream) : string
2500: Function StreamToString( Source : TStream) : string
2501: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2502: Function StrEmpty( const sString : string) : boolean
2503: Function StrEnd( Str : PChar) : PChar
2504: function StrEnd(const Str: PChar): PChar)
2505: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2506: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar)
2507: Function StrGet(var S : string; I : Integer) : Char;
2508: Function StrGet2(S : string; I : Integer) : Char;
2509: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2510: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2511: Function StrHtmlDecode( const AStr : String) : String
2512: Function StrHtmlEncode( const AStr : String) : String
2513: Function StrToBytes(const Value: String): TBytes;
2514: Function StrIComp( Str1, Str2 : PChar) : Integer
2515: Function StringOfChar(c : char;I : longInt) : String;
2516: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2517: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2518: Function StringRefCount(const s: String): integer;
2519: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2520: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2521: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2522: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2523: Function StringToBoolean( const Ps : string) : Boolean
2524: function StringToColor(const S: string): TColor)
2525: function StringToCursor(const S: string): TCursor;
2526: function StringToGUID(const S: string): TGUID)
2527: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer

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2528: Function StringToArray( const str : string; const delim : string ) : TStringDynArray
2529: Function StringWidth( S : string ) : Integer
2530: Function StrInternetToDateTime( Value : string ) : TDateTime
2531: Function StrIsDateTime( const Ps : string ) : Boolean
2532: Function StrIsFloatMoney( const Ps : string ) : Boolean
2533: Function StrIsInteger( const S : string ) : Boolean
2534: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal ) : PChar
2535: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal ) : Integer
2536: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal ) : PChar
2537: Function StrLen( Str : PChar ) : Cardinal
2538: function StrLen(const Str: PChar): Cardinal
2539: Function StrLessPrefix( const sString : string; const sPrefix : string ) : string
2540: Function StrLessSuffix( const sString : string; const sSuffix : string ) : string
2541: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal ) : Integer
2542: Function StrLower( Str : PChar ) : PChar
2543: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal ) : PChar
2544: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar
2545: Function StrNew( Str : PChar ) : PChar
2546: function StrNew(const Str: PChar): PChar
2547: Function StrNextChar( Str : PChar ) : PChar
2548: Function StrPad( const sString : string; const sPad : string; const iLength : integer ) : string
2549: Function StrParse( var sString : string; const sDelimiters : string ) : string;
2550: Function StrParsel( var sString : string; const sDelimiters : string; out cDelimiter : char ) : string;
2551: Function StrPas( Str : PChar ) : string
2552: function StrPas(const Str: PChar): string
2553: Function StrPCopy( Dest : PChar; Source : string ) : PChar
2554: function StrPCopy(Dest: PChar; const Source: string): PChar
2555: Function StrPLCopy( Dest : PChar; Source : string; MaxLen : Cardinal ) : PChar
2556: Function StrPos( Str1, Str2 : PChar ) : PChar
2557: Function StrScan(const Str: PChar; Chr: Char): PChar
2558: Function StrRScan(const Str: PChar; Chr: Char): PChar
2559: Function StrToBcd( const AValue : string ) : TBcd
2560: Function StrToBool( S : string ) : Boolean
2561: Function StrToBoolDef( S : string; Default : Boolean ) : Boolean
2562: Function StrToCard( const AStr : string ) : Cardinal
2563: Function StrToConv( AText : string; out AType : TConvType ) : Double
2564: Function StrToCurr( S : string ) : Currency;
2565: function StrToCurr(const S: string): Currency
2566: Function StrToCurrDef( S : string; Default : Currency ) : Currency;
2567: Function StrToDate( S : string ) : TDateTime;
2568: function StrToDate(const s: string): TDateTime;
2569: Function StrToDateDef( S : string; Default : TDateTime ) : TDateTime;
2570: Function StrToDateTime( S : string ) : TDateTime;
2571: function StrToDateTime(const S: string): TDateTime
2572: Function StrToDateTimeDef( S : string; Default : TDateTime ) : TDateTime;
2573: Function StrToDay( const ADay : string ) : Byte
2574: Function StrToFloat( S : string ) : Extended;
2575: function StrToFloat(s: String): Extended;
2576: Function StrToFloatDef( S : string; Default : Extended ) : Extended;
2577: function StrToFloatDef(const S: string; const Default: Extended): Extended
2578: Function StrToFloat( S : string ) : Extended;
2579: Function StrToFloat2( S : string; FormatSettings : TFormatSettings ) : Extended;
2580: Function StrToFloatDef( S : string; Default : Extended ) : Extended;
2581: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2582: Function StrToCurr( S : string ) : Currency;
2583: Function StrToCurr2( S : string; FormatSettings : TFormatSettings ) : Currency;
2584: Function StrToCurrDef( S : string; Default : Currency ) : Currency;
2585: Function StrToCurrDef2( S : string; Default : Currency; FormatSettings : TFormatSettings ) : Currency;
2586: Function StrToTime2( S : string; FormatSettings : TFormatSettings ) : TDateTime;
2587: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2588: Function StrToTimeDef2( S : string; Default : TDateTime; FormatSettings:TFormatSettings):TDateTime;
2589: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2590: Function StrToDateTime( S : string ) : TDateTime;
2591: Function StrToDateTime2( S : string; FormatSettings : TFormatSettings ) : TDateTime;
2592: Function StrToDateTimeDef( S : string; Default : TDateTime ) : TDateTime;
2593: Function StrToFloatRegionalIndependent(aValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2594: Function StrToInt( S : string ) : Integer
2595: function StrToInt(s: String): Longint;
2596: Function StrToInt64( S : string ) : Int64
2597: function StrToInt64(s: String): int64;
2598: Function StrToInt64Def( S : string; Default : Int64 ) : Int64
2599: function StrToInt64Def(const S: string; const Default: Int64):Int64
2600: Function StrToIntDef( S : string; Default : Integer ) : Integer
2601: function StrToIntDef(const S: string; Default: Integer): Integer
2602: function StrToIntDef(s: String; def: Longint): Longint;
2603: Function StrToMonth( const AMonth : string ) : Byte
2604: Function StrToTime( S : string ) : TDateTime;
2605: function StrToTime(const S: string): TDateTime
2606: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2607: Function StrToWord( const Value : string ) : Word
2608: Function StrToXmlDate( const DateStr : string; const Format : string ) : string
2609: Function StrToXmlDateTime( const DateStr : string; const Format : string ) : string
2610: Function StrToXmlTime( const TimeStr : string; const Format : string ) : string
2611: Function StrUpper( Str : PChar ) : PChar
2612: Function StuffString( const AText : string; AStart, ALength : Cardinal; const ASubText : string ) : string
2613: Function Sum( const Data : array of Double ) : Extended
2614: Function SumFloatArray( const B : TDynFloatArray ) : Float
2615: Function SumInt( const Data : array of Integer ) : Integer
2616: Function SumOfSquares( const Data : array of Double ) : Extended

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2617: Function SumPairProductFloatArray( const X, Y : TDynFloatArray) : Float
2618: Function SumSquareDiffFloatArray( const B : TDynFloatArray; Diff : Float) : Float
2619: Function SumSquareFloatArray( const B : TDynFloatArray) : Float
2620: Function Supports( CursorOptions : TCursorOptions) : Boolean
2621: Function SupportsClipboardFormat( AFormat : Word) : Boolean
2622: Function SwapWord(w : word): word)
2623: Function SwapInt(i : integer): integer)
2624: Function SwapLong(L : longint): longint)
2625: Function Swap(i : integer): integer)
2626: Function SYDDepreciation( const Cost, Salvage : Extended; Life, Period : Integer) : Extended
2627: Function SyncTime : Boolean
2628: Function SysErrorMessage( ErrorCode : Integer) : string
2629: function SysErrorMessage(ErrorCode: Integer): string)
2630: Function SystemTimeToDateTime( SystemTime : TSystemTime) : TDateTime
2631: function SystemTimeToDateTime(const SystemTime: TSystemTime): TDateTime;
2632: Function SysStringLen(const S: WideString): Integer; stdcall;
2633: Function TabRect( Index : Integer) : TRect
2634: Function Tan( const X : Extended) : Extended
2635: Function TaskMessageDlg(const Title,
Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
2636: Function TaskMessageDlg1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx : Longint; DefaultButton : TMsgDlgBtn) : Integer;
2637: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx : Longint; X, Y : Integer) : Integer;
2638: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;
2639: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons :
TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string) : Integer;
2640: Function TaskMessageDlgPosHelp1(const Title, Msg:string;DlgType: TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx:Longint; X,Y: Integer;const HelpFileName:string;DefaultButton:TMsgDlgBtn): Integer;
2641: Function TenToY( const Y : Float) : Float
2642: Function TerminateApp( ProcessID : DWORD; Timeout : Integer) : TJclTerminateAppResult
2643: Function TerminateTask( Wnd : HWND; Timeout : Integer) : TJclTerminateAppResult
2644: Function TestBit( const Value : Byte; const Bit : TBitRange) : Boolean;
2645: Function TestBit2( const Value : Shortint; const Bit : TBitRange) : Boolean;
2646: Function TestBit3( const Value : Smallint; const Bit : TBitRange) : Boolean;
2647: Function TestBit4( const Value : Word; const Bit : TBitRange) : Boolean;
2648: Function TestBit5( const Value : Cardinal; const Bit : TBitRange) : Boolean;
2649: Function TestBit6( const Value : Integer; const Bit : TBitRange) : Boolean;
2650: Function TestBit7( const Value : Int64; const Bit : TBitRange) : Boolean;
2651: Function TestBits( const Value, Mask : Byte) : Boolean;
2652: Function TestBits1( const Value, Mask : Shortint) : Boolean;
2653: Function TestBits2( const Value, Mask : Smallint) : Boolean;
2654: Function TestBits3( const Value, Mask : Word) : Boolean;
2655: Function TestBits4( const Value, Mask : Cardinal) : Boolean;
2656: Function TestBits5( const Value, Mask : Integer) : Boolean;
2657: Function TestBits6( const Value, Mask : Int64) : Boolean;
2658: Function TestFDIVInstruction : Boolean
2659: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
2660: Function TextExtent( const Text : string) : TSize
2661: function TextHeight(Text: string): Integer;
2662: Function TextIsSame( const A1 : string; const A2 : string) : Boolean
2663: Function TextStartsWith( const S, SubS : string) : Boolean
2664: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatValue): Boolean)
2665: Function ConvInteger(i : integer):string;
2666: Function IntegerToText(i : integer):string;
2667: Function TEXTTOSHORTCUT( TEXT : String) : TSHORTCUT
2668: function TextWidth(Text: string): Integer;
2669: Function ThreadCount : integer
2670: function ThousandSeparator: char;
2671: Function Ticks : Cardinal
2672: Function Time : TDateTime
2673: function Time: TDateTime;
2674: function TimeGetTime: int64;
2675: Function TimeOf( const AValue : TDateTime) : TDateTime
2676: function TimeSeparator: char;
2677: Function TimeStampToDateTime(const TimeStamp: TTimeStamp): TDateTime
2678: Function TimeStampToMsecs( TimeStamp : TTimeStamp) : Comp
2679: function TimeStampToMsecs(const TimeStamp: TTimeStamp): Comp)
2680: Function TimeToStr( DateTime : TDateTime) : string;
2681: function TimeToStr(const DateTime: TDateTime): string;
2682: Function TimeZoneBias : TDateTime
2683: Function ToCommon( const AValue : Double) : Double
2684: function ToCommon(const AValue: Double): Double;
2685: Function Today : TDateTime
2686: Function ToggleBit( const Value : Byte; const Bit : TBitRange) : Byte;
2687: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2688: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2689: Function ToggleBit3( const Value : Word; const Bit : TBitRange) : Word;
2690: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2691: Function ToggleBit5( const Value : Integer; const Bit : TBitRange) : Integer;
2692: Function ToggleBit6( const Value : Int64; const Bit : TBitRange) : Int64;
2693: function TokenComponentIdent:String
2694: Function TokenFloat : Extended
2695: function TokenFloat:Extended
2696: Function TokenInt : Longint
2697: function TokenInt:LongInt
2698: Function TokenString : string
2699: function TokenString:String

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2700: Function TokenSymbolIs( const S : string ) : Boolean
2701: function TokenSymbolIs(S:String):Boolean
2702: Function Tomorrow : TDateTime
2703: Function ToRightOf( const pc : TControl; piSpace : Integer ) : Integer
2704: Function ToString : string
2705: Function TotalVariance( const Data : array of Double ) : Extended
2706: Function Trace2( AURL : string ) : string;
2707: Function TrackMenu( Button : TToolButton ) : Boolean
2708: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN ) : INTEGER
2709: Function TranslateURI( const URI : string ) : string
2710: Function TranslationMatchesLanguages( Exact : Boolean ) : Boolean
2711: Function TransparentStretchBlt( DstDC : HDC;DstX,DstY,DstW,DstH:Integer;SrcDC:HDC;SrcX,SrcY,SrcW,
SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer ) : Boolean
2712: Function Trim( S : string ) : string;
2713: Function Trim( S : WideString ) : WideString;
2714: Function Trim(s : AnyString) : AnyString;
2715: Function TrimAllOf( ATrim, AText : String ) : String
2716: Function TrimLeft( S : string ) : string;
2717: Function TrimLeft( S : WideString ) : WideString;
2718: function TrimLeft(const S: string): string)
2719: Function TrimRight( S : string ) : string;
2720: Function TrimRight( S : WideString ) : WideString;
2721: function TrimRight(const S: string): string)
2722: function TrueBoolStrs: array of string
2723: Function Trunc(e : Extended) : Longint;
2724: Function Trunc64(e: extended): Int64;
2725: Function TruncPower( const Base, Exponent : Float ) : Float
2726: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily ) : Boolean;
2727: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily ) : Boolean;
2728: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2729: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime ) : Boolean
2730: Function TryEncodeDateMonthWeek(const AY,AMonth,AMonth,AMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean
2731: Function TryEncodeDateMonthWeek(const AYear,AMonth,ADay,AHour,AMin,ASec,AMilliSecond:Word; out
AValue:TDateTime):Boolean
2732: Function TryEncodeDateWeek(const AY,AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean
2733: Function TryEncodeDayOfWeekInMonth(const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out
AVal:TDateTime):Bool
2734: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2735: Function TryFloatToDateTime( Value : Extended; AResult : TDateTime ) : Boolean
2736: Function TryJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime ) : Boolean
2737: Function TryLock : Boolean
2738: Function TryModifiedJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime ) : Boolean
2739: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
AMilliSecond : Word; out AResult : TDateTime ) : Boolean
2740: Function TryStrToBcd( const AValue : string; var Bcd : TBcd ) : Boolean
2741: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType ) : Boolean
2742: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2743: Function TryStrToDateTime( S : string; Value : TDateTime ) : Boolean;
2744: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2745: Function TryStrToInt(const S: AnsiString; var I: Integer): Boolean;
2746: Function TryStrToInt64(const S: AnsiString; var I: Int64): Boolean;
2747: Function TwoByteToWord( AByte1, AByte2 : Byte ) : Word
2748: Function TwoCharToWord( AChar1, AChar2 : Char ) : Word
2749: Function TwoToY( const Y : Float ) : Float
2750: Function UCS4StringToWideString( const S : UCS4String ) : WideString
2751: Function UIDL( const ADest : TStrings; const AMsgNum : Integer ) : Boolean
2752: function Unassigned: Variant;
2753: Function UndoLastChange( FollowChange : Boolean ) : Boolean
2754: function UniCodeToStr(Value: string): string;
2755: Function UnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean
2756: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean)
2757: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal ) : TDateTime
2758: Function UnixPathToDosPath( const Path : string ) : string
2759: Function UnixToDateTime( const AValue : Int64 ) : TDateTime
2760: function UnixToDateTime(U: Int64): TDateTime;
2761: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint ) : HRESULT
2762: Function UnlockResource( ResData : HGLOBAL ) : LongBool
2763: Function UnlockVolume( var Handle : THandle ) : Boolean
2764: Function UnMaskString( Mask, Value : String ) : String
2765: function UpCase(ch : Char ) : Char;
2766: Function UpCaseFirst( const AStr : string ) : string
2767: Function UpCaseFirstWord( const AStr : string ) : string
2768: Function UpdateAction( Action : TBasicAction ) : Boolean
2769: Function UpdateKind : TUpdateKind
2770: Function UPDATESTATUS : TUPDATESTATUS
2771: Function UpperCase( S : string ) : string
2772: Function Uppercase(s : AnyString) : AnyString;
2773: Function URLDecode( ASrc : string ) : string
2774: Function URLEncode( const ASrc : string ) : string
2775: Function UseRightToLeftAlignment : Boolean
2776: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment ) : Boolean
2777: Function UseRightToLeftReading : Boolean
2778: Function UTF8CharLength( Lead : Char ) : Integer
2779: Function UTF8CharSize( Lead : Char ) : Integer
2780: Function UTF8Decode( const S : UTF8String ) : WideString
2781: Function UTF8Encode( const WS : WideString ) : UTF8String
2782: Function UTF8LowerCase( const S : UTF8string ) : UTF8string
2783: Function Utf8ToAnsi( const S : UTF8String ) : string
2784: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer ) : string

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2785: Function UTF8UpperCase( const S : UTF8string ) : UTF8string
2786: Function ValidFieldIndex( FieldIndex : Integer ) : Boolean
2787: Function ValidParentForm( control: TControl ): TForm
2788: Function Value : Variant
2789: Function ValueExists( const Section, Ident : string ) : Boolean
2790: Function ValueOf( const Key : string ) : Integer
2791: Function ValueInSet( AValue: Variant; ASet: Variant ): Boolean;
2792: Function VALUEOFKEY( const AKEY : VARIANT ) : VARIANT
2793: Function VarArrayFromStrings( Strings : TStrings ) : Variant
2794: Function VarArrayFromWideStrings( Strings : TWideStrings ) : Variant
2795: Function VarArrayGet( var S : Variant; I : Integer ) : Variant;
2796: Function VarFMTBcd : TVarType
2797: Function VarFMTBcdCreate1 : Variant;
2798: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word ) : Variant;
2799: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word ) : Variant;
2800: Function VarFMTBcdCreate4( const ABcd : TBcd ) : Variant;
2801: Function Variance( const Data : array of Double ) : Extended
2802: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant
2803: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant
2804: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant
2805: Function VariantGetElement( const V : Variant; i1 : integer ) : Variant;
2806: Function VariantGetElement1( const V : Variant; i1, i2 : integer ) : Variant;
2807: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer ) : Variant;
2808: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer ) : Variant;
2809: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer ) : Variant;
2810: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant
2811: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant
2812: Function VariantNeg( const V1 : Variant ) : Variant
2813: Function VariantNot( const V1 : Variant ) : Variant
2814: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant
2815: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant
2816: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant
2817: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant
2818: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant
2819: Function VarIsEmpty( const V : Variant ) : Boolean;
2820: Function VarIsFMTBcd( const AValue : Variant ) : Boolean;
2821: function VarIsNull( const V : Variant ) : Boolean;
2822: Function VarToBcd( const AValue : Variant ) : TBcd
2823: function VarType( const V : Variant ) : TVarType;
2824: Function VarType( const V : Variant ) : TVarType
2825: Function VarAsType( const V : Variant; AVarType : TVarType ) : Variant
2826: Function VarIsType( const V : Variant; AVarType : TVarType ) : Boolean;
2827: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType ) : Boolean;
2828: Function VarIsByRef( const V : Variant ) : Boolean
2829: Function VarIsEmpty( const V : Variant ) : Boolean
2830: Procedure VarCheckEmpty( const V : Variant )
2831: Function VarIsNull( const V : Variant ) : Boolean
2832: Function VarIsClear( const V : Variant ) : Boolean
2833: Function VarIsCustom( const V : Variant ) : Boolean
2834: Function VarIsOrdinal( const V : Variant ) : Boolean
2835: Function VarIsFloat( const V : Variant ) : Boolean
2836: Function VarIsNumeric( const V : Variant ) : Boolean
2837: Function VarIsStr( const V : Variant ) : Boolean
2838: Function VarToStr( const V : Variant ) : string
2839: Function VarToStrDef( const V : Variant; const ADefault : string ) : string
2840: Function VarToWideStr( const V : Variant ) : WideString
2841: Function VarToWideStrDef( const V : Variant; const ADefault : WideString ) : WideString
2842: Function VarToDateTime( const V : Variant ) : TDateTime
2843: Function VarFromDateTime( const DateTime : TDateTime ) : Variant
2844: Function VarInRange( const AValue, AMin, AMax : Variant ) : Boolean
2845: Function VarEnsureRange( const AValue, AMin, AMax : Variant ) : Variant
2846: TVariantRelationship, '( vrEqual, vrLessThan, vrGreaterThan, vrNotEqual )
2847: Function VarSameValue( const A, B : Variant ) : Boolean
2848: Function VarCompareValue( const A, B : Variant ) : TVariantRelationship
2849: Function VarIsEmptyParam( const V : Variant ) : Boolean
2850: Function VarIsError( const V : Variant; out AResult : HRESULT ) : Boolean;
2851: Function VarIsError1( const V : Variant ) : Boolean;
2852: Function VarAsError( AResult : HRESULT ) : Variant
2853: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant )
2854: Function VarIsArray( const A : Variant ) : Boolean;
2855: Function VarIsArray1( const A : Variant; AResolveByRef : Boolean ) : Boolean;
2856: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType ) : Variant
2857: Function VarArrayOf( const Values : array of Variant ) : Variant
2858: Function VarArrayRef( const A : Variant ) : Variant
2859: Function VarTypeIsValidArrayType( const AVarType : TVarType ) : Boolean
2860: Function VarTypeIsValidElementType( const AVarType : TVarType ) : Boolean
2861: Function VarArrayDimCount( const A : Variant ) : Integer
2862: Function VarArrayLowBound( const A : Variant; Dim : Integer ) : Integer
2863: Function VarArrayHighBound( const A : Variant; Dim : Integer ) : Integer
2864: Function VarArrayLock( const A : Variant ) : __Pointer
2865: Procedure VarArrayUnlock( const A : Variant )
2866: Function VarArrayGet( const A : Variant; const Indices : array of Integer ) : Variant
2867: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer )
2868: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer )
2869: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer )
2870: Function Unassigned : Variant
2871: Function Null : Variant
2872: Function VectorAdd( const V1, V2 : TFloatPoint ) : TFloatPoint
2873: function VectorAdd( const V1, V2 : TFloatPoint ) : TFloatPoint;

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2874: Function VectorDot( const V1, V2 : TFloatPoint) : Double
2875: function VectorDot(const V1,V2: TFloatPoint): Double;
2876: Function VectorLengthSqr( const V : TFloatPoint) : Double
2877: function VectorLengthSqr(const V: TFloatPoint): Double;
2878: Function VectorMult( const V : TFloatPoint; const s : Double) : TFloatPoint
2879: function VectorMult(const V: TFloatPoint; const s: Double): TFloatPoint;
2880: Function VectorSubtract( const V1, V2 : TFloatPoint) : TFloatPoint
2881: function VectorSubtract(const V1,V2: TFloatPoint): TFloatPoint;
2882: Function Verify( AUserName : String) : String
2883: Function Versine( X : Float) : Float
2884: function VersionCheck: boolean;
2885: Function VersionLanguageId( const LangIdRec : TLangIdRec) : string
2886: Function VersionLanguageName( const LangId : Word) : string
2887: Function VersionResourceAvailable( const FileName : string) : Boolean
2888: Function Visible : Boolean
2889: function VolumeID(DriveChar: Char): string
2890: Function WaitFor( const AString : string) : string
2891: Function WaitFor( const Timeout : Cardinal) : TJclWaitResult
2892: Function WaitFor1 : TWaitResult;
2893: Function WaitForData( Timeout : Longint) : Boolean
2894: Function WebColorNameToColor( WebColorName : string) : TColor
2895: Function WebColorStrToColor( WebColor : string) : TColor
2896: Function WebColorToRGB( WebColor : Integer) : Integer
2897: Function wGet(aURL, afile: string): boolean;
2898: Function wGet2(aURL, afile: string): boolean; //without file open
2899: Function WebGet(aURL, afile: string): boolean;
2900: Function WebExists: boolean; //alias to isinternet
2901: Function WeekOf( const AValue : TDateTime) : Word
2902: Function WeekOfTheMonth( const AValue : TDateTime) : Word;
2903: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word) : Word;
2904: Function WeekOfTheYear( const AValue : TDateTime) : Word;
2905: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word) : Word;
2906: Function WeeksBetween( const ANow, ATen : TDateTime) : Integer
2907: Function WeeksInAYear( const AYear : Word) : Word
2908: Function WeeksInYear( const AValue : TDateTime) : Word
2909: Function WeekSpan( const ANow, ATen : TDateTime) : Double
2910: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineBreakStyle) : WideString
2911: Function WideCat( const x, y : WideString) : WideString
2912: Function WideCompareStr( S1, S2 : WideString) : Integer
2913: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2914: Function WideCompareText( S1, S2 : WideString) : Integer
2915: function WideCompareText(const S1: WideString; const S2: WideString): Integer
2916: Function WideCopy( const src : WideString; index, count : Integer) : WideString
2917: Function WideDequotedStr( const S : WideString; AQuote : WideChar) : WideString
2918: Function WideEqual( const x, y : WideString) : Boolean
2919: function WideFormat(const Format: WideString; const Args: array of const): WideString)
2920: Function WideGreater( const x, y : WideString) : Boolean
2921: Function WideLength( const src : WideString) : Integer
2922: Function WideLess( const x, y : WideString) : Boolean
2923: Function WideLowerCase( S : WideString) : WideString
2924: function WideLowerCase(const S: WideString): WideString)
2925: Function WidePos( const src, sub : WideString) : Integer
2926: Function WideQuotedStr( const S : WideString; Quote : WideChar) : WideString
2927: Function WideReplaceStr( const AText, AFromText, AToText : WideString) : WideString
2928: Function WideReplaceText( const AText, AFromText, AToText : WideString) : WideString
2929: Function WideSameStr( S1, S2 : WideString) : Boolean
2930: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
2931: Function WideSameText( S1, S2 : WideString) : Boolean
2932: function WideSameText(const S1: WideString; const S2: WideString): Boolean
2933: Function WideStringReplace(const S,OldPattern, NewPattern: WideString; Flags: TReplaceFlags): WideString
2934: Function WideStringToUCS4String( const S : WideString) : UCS4String
2935: Function WideUpperCase( S : WideString) : WideString
2936: Function Win32BackupFile( const FileName : string; Move : Boolean) : Boolean
2937: function Win32Check(RetVal: boolean): boolean
2938: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
2939: Function Win32RestoreFile( const FileName : string) : Boolean
2940: Function Win32Type : TIdWin32Type
2941: Function WinColor( const Color32 : TColor32) : TColor
2942: function winexec(FileName: pchar; showCmd: integer): integer;
2943: Function WinExec32( const Cmd : string; const CmdShow : Integer) : Boolean
2944: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer) : Cardinal
2945: Function WithinPastDays( const ANow, ATen : TDateTime; const ADays : Integer) : Boolean
2946: Function WithinPastHours( const ANow, ATen : TDateTime; const AHours : Int64) : Boolean
2947: Function WithinPastMilliseconds( const ANow, ATen : TDateTime; const AMillisSeconds : Int64) : Boolean
2948: Function WithinPastMinutes( const ANow, ATen : TDateTime; const AMinutes : Int64) : Boolean
2949: Function WithinPastMonths( const ANow, ATen : TDateTime; const AMonths : Integer) : Boolean
2950: Function WithinPastSeconds( const ANow, ATen : TDateTime; const ASeconds : Int64) : Boolean
2951: Function WithinPastWeeks( const ANow, ATen : TDateTime; const AWeeks : Integer) : Boolean
2952: Function WithinPastYears( const ANow, ATen : TDateTime; const AYears : Integer) : Boolean
2953: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar) : DWORD
2954: Function WordToStr( const Value : Word) : String
2955: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint) : Boolean
2956: Function IntToWorldGridFormatIdent( Value : Longint; var Ident : string) : Boolean
2957: Procedure GetWordGridFormatValues( Proc : TGetStrProc)
2958: Function WorkArea : Integer
2959: Function WrapText( Line : string; MaxCol : Integer) : string;
2960: Function WrapText( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer) : string;
2961: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint) : HResult
2962: function Write(Buffer: string; Count: LongInt): LongInt

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2963: Function WriteClient( var Buffer, Count : Integer) : Integer
2964: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean) : Cardinal
2965: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string) : Boolean
2966: Function WriteString( const AString : string) : Boolean
2967: Function WStrGet( var S : AnyString; I : Integer) : WideChar;
2968: Function wvsprintf( Output : PChar; Format : PChar; arglist : va_list) : Integer
2969: Function wsprintf( Output : PChar; Format : PChar) : Integer
2970: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string) : string
2971: Function XmlTimeToStr( const XmlTime : string; const Format : string) : string
2972: Function XorDecode( const Key, Source : string) : string
2973: Function XorEncode( const Key, Source : string) : string
2974: Function XorString( const Key, Src : ShortString) : ShortString
2975: Function Yield : Bool
2976: Function YearOf( const AValue : TDateTime) : Word
2977: Function YearsBetween( const ANow, AThen : TDateTime) : Integer
2978: Function YearSpan( const ANow, AThen : TDateTime) : Double
2979: Function Yesterday : TDateTime
2980: Function YesNoDialog( const ACaption, AMsg : string) : boolean;
2981: Function ( const Name : string; Proc : TUserFunction)
2982: Function using Special_Scholz from 3.8.5.0
2983: Function TimeToFloat( value:Extended):Extended; // Normalstunden --> Industriestunden
2984: Function FloatToTime( value:Extended):Extended; // Industriestunden --> Normalstunden
2985: Function FloatToTime2Dec( value:Extended):Extended;
2986: Function MinToStd( value:Extended):Extended;
2987: Function MinToStdAsString( value:Extended):String;
2988: Function RoundFloatToStr( zahl:Extended; decimals:integer):String;
2989: Function RoundFloat( zahl:Extended; decimals:integer):Extended;
2990: Function Round2Dec ( zahl:Extended):Extended;
2991: Function GetAngle(x,y:Extended):Double;
2992: Function AddAngle(a1,a2:Double):Double;
2993:
2994: *****
2995: unit uPSI_StText;
2996: *****
2997: Function TextSeek( var F : TextFile; Target : LongInt) : Boolean
2998: Function TextFileSize( var F : TextFile) : LongInt
2999: Function TextPos( var F : TextFile) : LongInt
3000: Function TextFlush( var F : TextFile) : Boolean
3001:
3002: *****
3003: from JvVCLUtils;
3004: *****
3005: { Windows resources (bitmaps and icons) VCL-oriented routines }
3006: procedure DrawBitmapTransparent( Dest: TCanvas; DstX, DstY: Integer; Bitmap: TBitmap; TransparentColor: TColor);
3007: procedure DrawBitmapRectTransparent( Dest: TCanvas; DstX,
  DstY: Integer; SrcRect: TRect; Bitmap: TBitmap; TransparColor: TColor);
3008: procedure StretchBitmapRectTransparent( Dest: TCanvas; DstX, DstY, DstW, DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3009: function MakeBitmap( ResID: PChar): TBitmap;
3010: function MakeBitmapID( ResID: Word): TBitmap;
3011: function MakeModuleBitmap( Module: THandle; ResID: PChar): TBitmap;
3012: function CreateTwoColorsBrushPattern( Color1, Color2: TColor): TBitmap;
3013: function CreateDisabledBitmap_NewStyle( FOriginal: TBitmap; BackColor: TColor): TBitmap;
3014: function CreateDisabledBitmapEx( FOriginal: TBitmap; OutlineColor, BackColor,
  HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3015: function CreateDisabledBitmap( FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3016: function ChangeBitmapColor( Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3017: procedure AssignBitmapCell( Source: TGraphic; Dest: TBitmap; Cols, Rows, Index: Integer);
3018: {$IFDEF WIN32}
3019: procedure ImageListDrawDisabled( Images: TImageList; Canvas: TCanvas;
  X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3020: {$ENDIF}
3021: function MakeIcon( ResID: PChar): TIcon;
3022: function MakeIconID( ResID: Word): TIcon;
3023: function MakeModuleIcon( Module: THandle; ResID: PChar): TIcon;
3024: function CreateBitmapFromIcon( Icon: TIcon; BackColor: TColor): TBitmap;
3025: {$IFDEF WIN32}
3026: function CreateIconFromBitmap( Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3027: {$ENDIF}
3028: { Service routines }
3029: procedure NotImplemented;
3030: procedure ResourceNotFound( ResID: PChar);
3031: function PointInRect( const P: TPoint; const R: TRect): Boolean;
3032: function PointInPolyRgn( const P: TPoint; const Points: array of TPoint): Boolean;
3033: function PaletteColor( Color: TColor): Longint;
3034: function WidthOf( R: TRect): Integer;
3035: function HeightOf( R: TRect): Integer;
3036: procedure PaintInverseRect( const RectOrg, RectEnd: TPoint);
3037: procedure DrawInvertFrame( ScreenRect: TRect; Width: Integer);
3038: procedure CopyParentImage( Control: TControl; Dest: TCanvas);
3039: procedure Delay( MSecs: Longint);
3040: procedure CenterControl( Control: TControl);
3041: Function PaletteEntries( Palette : HPALETTE) : Integer
3042: Function WindowClassName( Wnd : HWND) : string
3043: Function ScreenWorkArea : TRect
3044: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3045: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3046: Procedure ActivateWindow( Wnd : HWND)
3047: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)

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3050: Procedure CenterWindow( Wnd : HWND)
3051: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3052: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3053: Function DialogsToPixelsX( Dlgs : Word) : Word
3054: Function DialogsToPixelsY( Dlgs : Word) : Word
3055: Function PixelsToDialogsX( Pixs : Word) : Word
3056: Function PixelsToDialogsY( Pixs : Word) : Word
3057: {$IFDEF WIN32}
3058: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3059: function MakeVariant(const Values: array of Variant): Variant;
3060: {$ENDIF}
3061: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3062: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3063: function MsgDlg(const Msg: string; AType: TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3064: {$IFDEF CBUILDER}
3065: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3066: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3067: {$ELSE}
3068: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3069: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3070: {$ENDIF CBUILDER}
3071: function IsForegroundTask: Boolean;
3072: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3073: function GetAveCharSize(Canvas: TCanvas): TPoint;
3074: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3075: procedure FreeUnusedOle;
3076: procedure Beep;
3077: function GetWindowsVersionJ: string;
3078: function LoadDLL(const LibName: string): THandle;
3079: function RegisterServer(const ModuleName: string): Boolean;
3080: {$IFDEF WIN32}
3081: function IsLibrary: Boolean;
3082: {$ENDIF}
3083: { Gradient filling routine }
3084: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3085: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction:
TFillDirection; Colors: Byte);
3086: { String routines }
3087: function GetEnvVar(const VarName: string): string;
3088: function AnsiUpperFirstChar(const S: string): string;
3089: function StringToPChar(var S: string): PChar;
3090: function StrPAlloc(const S: string): PChar;
3091: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3092: function DropT(const S: string): string;
3093: { Memory routines }
3094: function AllocMemo(Size: Longint): Pointer;
3095: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3096: procedure FreeMemo(var fpBlock: Pointer);
3097: function GetMemoSize(fpBlock: Pointer): Longint;
3098: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3099: {$IFDEF COMPILER5_UP}
3100: procedure FreeAndNil(var Obj);
3101: {$ENDIF}
3102: // from PNGLoader
3103: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3104: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3105: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3106: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3107: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style :
TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3108: CL.AddDelphiFunction('Function IsAnAllResult( const AModalResult : TModalResult) : Boolean
3109: Function InitWndProc( HWindow : HWND; Message : Longint; LParam : Longint) : Longint
3110: CL.AddConstantN('CTL3D_ALL','LongWord').SetUInt( $FFFF);
3111: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment)
3112: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint) : Longint
3113: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3114: Procedure SetImeMode( hWnd : HWND; Mode : TImeMode)
3115: Procedure SetImeName( Name : TImeName)
3116: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean) : Boolean
3117: Function Imm32GetContext( hWnd : HWND) : HIMC
3118: Function Imm32ReleaseContext( hWnd : HWND; hImc : HIMC) : Boolean
3119: Function Imm32GetConversionStatus( hImc : HIMC; var Conversion, Sentence : longword) : Boolean
3120: Function Imm32SetConversionStatus( hImc : HIMC; Conversion, Sentence : longword) : Boolean
3121: Function Imm32SetOpenStatus( hImc : HIMC; fOpen : Boolean) : Boolean
3122: // Function Imm32SetCompositionWindow( hImc : HIMC; lpCompForm : PCOMPOSITIONFORM) : Boolean
3123: //Function Imm32SetCompositionFont( hImc : HIMC; lpLogFont : PLOGFONTA) : Boolean
3124: Function Imm32GetCompositionString(hImc:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3125: Function Imm32IsIME( hKl : longword) : Boolean
3126: Function Imm32NotifyIME( hImc : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3127: Procedure DragDone( Drop : Boolean)
3128:
3129:
3130: //*****added from jvjvclutils
3131: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3132: function ReplaceComponentReference(This, NewReference: TComponent; var VarReference: TComponent): Boolean;
3133: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3134: function IsPositiveResult(Value: TModalResult): Boolean;
3135: function IsNegativeResult(Value: TModalResult): Boolean;
3136: function IsAbortResult(const Value: TModalResult): Boolean;

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3137: function StripAllFromResult(const Value: TModalResult): TModalResult;
3138: // returns either BrightColor or DarkColor depending on the luminance of AColor
3139: // This function gives the same result (AFAIK) as the function used in Windows to
3140: // calculate the desktop icon text color based on the desktop background color
3141: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3142: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3143:
3144: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3145:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3146:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3147:   var LinkName: string; Scale: Integer = 100); overload;
3148: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3149:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3150:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3151:   var LinkName: string; Scale: Integer = 100); overload;
3152: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3153:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3154: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3155:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3156:   Scale: Integer = 100): string;
3157: function HTMLPlainText(const Text: string): string;
3158: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3159:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3160: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3161:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3162: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3163: function HTMLPrepareText(const Text: string): string;
3164:
3165: ***** uPSI_JvAppUtils;
3166: Function GetDefaultSection( Component : TComponent): string
3167: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean)
3168: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string)
3169: Function GetDefaultIniName : string
3170: // 'OnGetDefaultIniName', 'OnGetDefaultIniName'.SetString();
3171: Function GetDefaultIniRegKey : string
3172: Function FindForm( FormClass : TFormClass) : TForm
3173: Function FindShowForm( FormClass : TFormClass; const Caption : string) : TForm
3174: Function ShowDialog( FormClass : TFormClass) : Boolean
3175: //Function InstantiateForm( FormClass : TFormClass; var Reference) : TForm
3176: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean)
3177: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean)
3178: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile)
3179: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string)
3180: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string)
3181: Function GetUniqueFileNameInDir( const Path, FileNameMask : string) : string
3182: Function StrToIniStr( const Str : string) : string
3183: Function IniStrToStr( const Str : string) : string
3184: Function IniReadString( IniFile : TObjet; const Section, Ident, Default : string) : string
3185: Procedure IniWriteString( IniFile : TObjet; const Section, Ident, Value : string)
3186: Function IniReadInteger( IniFile : TObjet; const Section, Ident : string; Default : Longint) : Longint
3187: Procedure IniWriteInteger( IniFile : TObjet; const Section, Ident : string; Value : Longint)
3188: Function IniReadBool( IniFile : TObjet; const Section, Ident : string; Default : Boolean) : Boolean
3189: Procedure IniWriteBool( IniFile : TObjet; const Section, Ident : string; Value : Boolean)
3190: Procedure IniReadSections( IniFile : TObjet; Strings : TStringList)
3191: Procedure IniEraseSection( IniFile : TObjet; const Section : string)
3192: Procedure IniDeleteKey( IniFile : TObjet; const Section, Ident : string)
3193: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint)
3194: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint)
3195: Procedure AppTaskbarIcons( AppOnly : Boolean)
3196: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObjet; const Section : string)
3197: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObjet; const Section : string)
3198: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObjet)
3199: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObjet)
3200: ***** uPSI_JvDBUtils;
3201: Function CreateLocate( DataSet : TDataSet) : TJvLocateObject
3202: Function IsDataSetEmpty( DataSet : TDataSet) : Boolean
3203: Procedure RefreshQuery( Query : TDataSet)
3204: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean
3205: Function DataSetSectionName( DataSet : TDataSet) : string
3206: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObjet; const Section : string)
3207: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObjet;const Section:string;RestoreVisible:Bool)
3208: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant;
Options: TLocateOptions) : Boolean
3209: Procedure SaveFields( DataSet : TDataSet; IniFile : TIniFile)
3210: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIniFile; RestoreVisible : Boolean)
3211: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean)
3212: Function ConfirmDelete : Boolean
3213: Procedure ConfirmDataSetCancel( DataSet : TDataSet)
3214: Procedure CheckRequiredField( Field : TField)
3215: Procedure CheckRequiredFields( const Fields : array of TField)
3216: Function DateToSQL( Value : TDateTime) : string
3217: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string) : string
3218: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string) : string
3219: Function FormatSQLNumericRange(const FieldName:string;LowVal,HighVal,LowEmpty,
HighEmpty:Double;Inclusive:Bool):string
3220: Function StrMaskSQL( const Value : string) : string
3221: Function FormatSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3222: Function FormatAnsiSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3223: Procedure _DBError( const Msg : string)

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3224: Const('TrueExpr','String').SetString( '0=0
3225: Const('sdfStandard16','String').SetString( '""mm'/'dd'/'yyyy'""
3226: Const('sdfStandard32','String').SetString( '""dd/mm/yyyy'""
3227: Const('sdfOracle','String').SetString( 'TO_DATE(''dd/mm/yyyy'', 'DD/MM/YYYY')"
3228: Const('sdfinterbase','String').SetString( "CAST(''mm'/'dd'/'yyyy'' AS DATE)"
3229: Const('sdfMSSQL','String').SetString( "CONVERT(datetime, ''mm'/'dd'/'yyyy'', 103)"
3230: AddTypeS('Largeint', 'Longint
3231: addTypeS('TIFException', '(ErNoError, erCannotImport, erInvalidType, ErInternalError, '+
3232: 'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3233: 'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3234: 'erVersionError, ErDivideByZero, ErMathError,erCouldNotCallProc, erOutOfRecordRange, '+
3235: 'erOutOfMemory,erException,erNullPointerException,erNullVariantErrorerInterfaceNotSupportedederError);
3236: (*-----*)
3237: procedure SIRegister_JclIniFiles(CL: TPSPascalCompiler);
3238: begin
3239:   Function JIniReadBool( const FileName, Section, Line : string) : Boolean
3240:   Function JIniReadInteger( const FileName, Section, Line : string) : Integer
3241:   Function JIniReadString( const FileName, Section, Line : string) : string
3242:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3243:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3244:   Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3245:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3246:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3247: end;
3248:
3249: (* === compile-time registration functions === *)
3250: (*-----*)
3251: procedure SIRegister_JclDateTime(CL: TPSPascalCompiler);
3252: begin
3253:   'UnixTimeStart','LongInt').SetInt( 25569);
3254:   Function JEncodeDate( const Year : Integer; Month, Day : Word) : TDateTime
3255:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word);
3256:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word);
3257:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer);
3258:   Function CenturyOfDate( const DateTime : TDateTime) : Integer
3259:   Function CenturyBaseYear( const DateTime : TDateTime) : Integer
3260:   Function DayOfDate( const DateTime : TDateTime) : Integer
3261:   Function MonthOfDate( const DateTime : TDateTime) : Integer
3262:   Function YearOfDate( const DateTime : TDateTime) : Integer
3263:   Function JDayOfTheYear( const DateTime : TDateTime; var Year : Integer) : Integer;
3264:   Function DayOfTheYear1( const DateTime : TDateTime) : Integer;
3265:   Function DayOfTheYearToDateTime( const Year, Day : Integer) : TDateTime
3266:   Function HourOfTime( const DateTime : TDateTime) : Integer
3267:   Function MinuteOfTime( const DateTime : TDateTime) : Integer
3268:   Function SecondOfTime( const DateTime : TDateTime) : Integer
3269:   Function GetISOYearNumberOfDays( const Year : Word) : Word
3270:   Function IsISOLongYear( const Year : Word) : Boolean;
3271:   Function IsISOLongYear1( const DateTime : TDateTime) : Boolean;
3272:   Function ISODayOfWeek( const DateTime : TDateTime) : Word
3273:   Function JISOWeekNumber( DateTime : TDateTime; var YearOfWeekNumber, WeekDay : Integer) : Integer;
3274:   Function ISOWeekNumber1( DateTime : TDateTime; var YearOfWeekNumber : Integer) : Integer;
3275:   Function ISOWeekNumber2( DateTime : TDateTime) : Integer;
3276:   Function ISOWeekToDateTime( const Year, Week, Day : Integer) : TDateTime
3277:   Function JIsLeapYear( const Year : Integer) : Boolean;
3278:   Function IsLeapYear1( const DateTime : TDateTime) : Boolean;
3279:   Function JDaysInMonth( const DateTime : TDateTime) : Integer
3280:   Function Make4DigitYear( Year, Pivot : Integer) : Integer
3281:   Function JMakeYear4Digit( Year, WindowsillYear : Integer) : Integer
3282:   Function JEasterSunday( const Year : Integer) : TDateTime // TDosDateTime, 'Integer
3283:   Function JFormatDateTime( Form : string; DateTime : TDateTime) : string
3284:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64) : Boolean;
3285:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime) : Boolean;
3286:   Function HoursToMsecs( Hours : Integer) : Integer
3287:   Function MinutesToMsecs( Minutes : Integer) : Integer
3288:   Function SecondsToMsecs( Seconds : Integer) : Integer
3289:   Function TimeOfDateTimeToSeconds( DateTime : TDateTime) : Integer
3290:   Function TimeOfDateTimeToMsecs( DateTime : TDateTime) : Integer
3291:   Function DateTimeToLocalDateTime( DateTime : TDateTime) : TDateTime
3292:   Function LocalDateTimeToDateTime( DateTime : TDateTime) : TDateTime
3293:   Function DateTimeToDosDateTime( const DateTime : TDateTime) : TDosDateTime
3294:   Function JDateTimeToFileTime( DateTime : TDateTime) : TFileTime
3295:   Function JDateTimeToSystemTime( DateTime : TDateTime) : TSystemTime;
3296:   Procedure DateTimeToSystemTime1( DateTime : TDateTime; var SysTime : TSystemTime);
3297:   Function LocalDateTimeToFileTime( DateTime : TDateTime) : FileTime
3298:   Function DosDateTimeToDateTime( const DosTime : TDosDateTime) : TDateTime
3299:   Function JDosDateTimeToFileTime( DosTime : TDosDateTime) : TFileTime;
3300:   Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime);
3301:   Function DosDateTimeToSystemTime( const DosTime : TDosDateTime) : TSystemTime
3302:   Function DosDateTimeToStr( DateTime : Integer) : string
3303:   Function JFileTimeToDateTime( const FileTime : TFileTime) : TDateTime
3304:   Function FileTimeToLocalDateTime( const FileTime : TFileTime) : TDateTime
3305:   Function JFileTimeToDosDateTime( const FileTime : TFileTime) : TDosDateTime;
3306:   Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word);
3307:   Function JFileTimeToSystemTime( const FileTime : TFileTime) : TSystemTime;
3308:   Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime);
3309:   Function FileTimeToStr( const FileTime : TFileTime) : string
3310:   Function SystemTimeToDosDateTime( const SystemTime : TSystemTime) : TDosDateTime
3311:   Function JSystemTimeToFileTime( const SystemTime : TSystemTime) : TFileTime;
3312:   Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime);

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3313: Function SystemTimeToStr( const SystemTime : TSystemTime) : string
3314: Function CreationDateTimeOfFile( const Sr : TSearchRec) : TDateTime
3315: Function LastAccessDateTimeOfFile( const Sr : TSearchRec) : TDateTime
3316: Function LastWriteDateTimeOfFile( const Sr : TSearchRec) : TDateTime
3317:   TJclUnixTime32, 'Longword
3318: Function JDateTimeToUnixTime( DateTime : TDateTime) : TJclUnixTime32
3319: Function JUnixTimeToDateTime( const UnixTime : TJclUnixTime32) : TDateTime
3320: Function FileTimeToUnixTime( const AValue : TFileTime) : TJclUnixTime32
3321: Function UnixTimeToFileTime( const AValue : TJclUnixTime32) : TFileTime
3322: Function JNullStamp : TTimeStamp
3323: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Int64
3324: Function JEqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Boolean
3325: Function JIsNullTimeStamp( const Stamp : TTimeStamp) : Boolean
3326: Function TimeStampDOW( const Stamp : TTimeStamp) : Integer
3327: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3328: Function FirstWeekDay1( const Year, Month : Integer) : Integer;
3329: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3330: Function LastWeekDay1( const Year, Month : Integer) : Integer;
3331: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer) : Integer
3332: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3333: Function FirstWeekendDay1( const Year, Month : Integer) : Integer;
3334: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3335: Function LastWeekendDay1( const Year, Month : Integer) : Integer;
3336: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer) : Integer
3337: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer) : Integer
3338: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer) : Integer
3339: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer) : Integer
3340:   FindClass('TOBJECT'),'EJclDateTimeError
3341: end;
3342:
3343: procedure SIRegister_JclMiscel2(CL: TPSPascalCompiler);
3344: begin
3345:   Function SetDisplayResolution( const XRes, YRes : DWORD) : Longint
3346:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string) : Boolean
3347:   Function WinExec32( const Cmd : string; const CmdShow : Integer) : Boolean
3348:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer) : Cardinal
3349:   Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3350:   TJclKillLevel, '( klNormal, klNoSignal, klTimeOut )
3351:   Function ExitWindows( ExitCode : Cardinal) : Boolean
3352:   Function LogOffOS( KillLevel : TJclKillLevel) : Boolean
3353:   Function PowerOffOS( KillLevel : TJclKillLevel) : Boolean
3354:   Function ShutDownOS( KillLevel : TJclKillLevel) : Boolean
3355:   Function RebootOS( KillLevel : TJclKillLevel) : Boolean
3356:   Function HibernateOS( Force, DisableWakeEvents : Boolean) : Boolean
3357:   Function SuspendOS( Force, DisableWakeEvents : Boolean) : Boolean
3358:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean):Boolean;;
3359:   Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;
3360:   Function AbortShutDown : Boolean;
3361:   Function AbortShutDown1( const MachineName : string) : Boolean;
3362:   TJclAllowedPowerOperation, '( apoHibernate, apoShutdown, apoSuspend )
3363:   TJclAllowedPowerOperations, 'set of TJclAllowedPowerOperation
3364:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3365:   FindClass('TOBJECT'),'EJclCreateProcessError
3366:   Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
3367:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const
Environment:PChar);
3368:   // with CL.Add(EJclCreateProcessError) do
3369:   end;
3370:
3371:
3372: procedure SIRegister_JclAnsiStrings(CL: TPSPascalCompiler);
3373: begin
3374:   // 'AnsiSigns','Set').SetSet(['-', '+']);
3375:   'C1_UPPER','LongWord').SetUInt( $0001);
3376:   'C1_LOWER','LongWord').SetUInt( $0002);
3377:   'C1_DIGIT','LongWord').SetUInt( $0004);
3378:   'C1_SPACE','LongWord').SetUInt( $0008);
3379:   'C1_PUNCT','LongWord').SetUInt( $0010);
3380:   'C1_CNTRL','LongWord').SetUInt( $0020);
3381:   'C1_BLANK','LongWord').SetUInt( $0040);
3382:   'C1_XDIGIT','LongWord').SetUInt( $0080);
3383:   'C1_ALPHA','LongWord').SetUInt( $0100);
3384:   AnsiChar, 'Char
3385:   Function StrIsAlpha( const S : AnsiString) : Boolean
3386:   Function StrIsAlphaNum( const S : AnsiString) : Boolean
3387:   Function StrIsAlphaNumUnderscore( const S : AnsiString) : Boolean
3388:   Function StrContainsChars(const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean) : Boolean
3389:   Function StrConsistsOfNumberChars( const S : AnsiString) : Boolean
3390:   Function StrIsDigit( const S : AnsiString) : Boolean
3391:   Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet) : Boolean
3392:   Function StrSame( const S1, S2 : AnsiString) : Boolean
3393:   //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar) : AnsiString
3394:   Function StrCharPosLower( const S : AnsiString; CharPos : Integer) : AnsiString
3395:   Function StrCharPosUpper( const S : AnsiString; CharPos : Integer) : AnsiString
3396:   Function StrDoubleQuote( const S : AnsiString) : AnsiString
3397:   Function StrEnsureNoPrefix( const Prefix, Text : AnsiString) : AnsiString
3398:   Function StrEnsureNoSuffix( const Suffix, Text : AnsiString) : AnsiString
3399:   Function StrEnsurePrefix( const Prefix, Text : AnsiString) : AnsiString
3400:   Function StrEnsureSuffix( const Suffix, Text : AnsiString) : AnsiString

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3401: Function StrEscapedToString( const S : AnsiString ) : AnsiString
3402: Function JStrLower( const S : AnsiString ) : AnsiString
3403: Procedure StrLowerInPlace( var S : AnsiString )
3404: ///Procedure StrLowerBuff( S : PAnsiChar )
3405: Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;const ToIndex,FromIndex,Count:Integer;
3406: Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3407: Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3408: Function StrProper( const S : AnsiString ) : AnsiString
3409: ///Procedure StrProperBuff( S : PAnsiChar )
3410: Function StrQuote( const S : AnsiString; C : AnsiChar ) : AnsiString
3411: Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3412: Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3413: Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3414: Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar ) : AnsiString
3415: Function StrReplaceChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString
3416: Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString;
3417: Function StrRepeat( const S : AnsiString; Count : Integer ) : AnsiString
3418: Function StrRepeatLength( const S : AnsiString; const L : Integer ) : AnsiString
3419: Function StrReverse( const S : AnsiString ) : AnsiString
3420: Procedure StrReverseInPlace( var S : AnsiString )
3421: Function StrSingleQuote( const S : AnsiString ) : AnsiString
3422: Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet ) : AnsiString
3423: Function StrStringToEscaped( const S : AnsiString ) : AnsiString
3424: Function StrStripNonNumberChars( const S : AnsiString ) : AnsiString
3425: Function StrToHex( const Source : AnsiString ) : AnsiString
3426: Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar ) : AnsiString
3427: Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3428: Function StrTrimCharRight( const S : AnsiString; C : AnsiChar ) : AnsiString
3429: Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3430: Function StrTrimQuotes( const S : AnsiString ) : AnsiString
3431: Function JStrUpper( const S : AnsiString ) : AnsiString
3432: Procedure StrUpperInPlace( var S : AnsiString )
3433: ///Procedure StrUpperBuff( S : PAnsiChar )
3434: Function StrOemToAnsi( const S : AnsiString ) : AnsiString
3435: Function StrAnsiToOem( const S : AnsiString ) : AnsiString
3436: Procedure StrAddRef( var S : AnsiString )
3437: Function StrAllocSize( const S : AnsiString ) : Longint
3438: Procedure StrDecRef( var S : AnsiString )
3439: ///Function StrLen( S : PAnsiChar ) : Integer
3440: Function StrLength( const S : AnsiString ) : Longint
3441: Function StrRefCount( const S : AnsiString ) : Longint
3442: Procedure StrResetLength( var S : AnsiString )
3443: Function StrCharCount( const S : AnsiString; C : AnsiChar ) : Integer
3444: Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet ) : Integer
3445: Function StrStrCount( const S, SubS : AnsiString ) : Integer
3446: Function StrCompare( const S1, S2 : AnsiString ) : Integer
3447: Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer ) : Integer
3448: ///Function StrFillChar( const C : AnsiChar; Count : Integer ) : AnsiString;
3449: Function StrFillChar1( const C : Char; Count : Integer ) : AnsiString;
3450: Function StrFind( const Substr, S : AnsiString; const Index : Integer ) : Integer
3451: ///Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString ) : Boolean
3452: Function StrIndex( const S : AnsiString; const List : array of AnsiString ) : Integer
3453: Function StrILastPos( const SubStr, S : AnsiString ) : Integer
3454: Function StrIPos( const SubStr, S : AnsiString ) : Integer
3455: Function StrIsOneOf( const S : AnsiString; const List : array of AnsiString ) : Boolean
3456: Function StrLastPos( const SubStr, S : AnsiString ) : Integer
3457: Function StrMatch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3458: Function StrMatches( const Substr, S : AnsiString; const Index : Integer ) : Boolean
3459: Function StrNIPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3460: Function StrNPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3461: Function StrPrefixIndex( const S : AnsiString; const Prefixes : array of AnsiString ) : Integer
3462: Function StrSearch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3463: ///Function StrAfter( const SubStr, S : AnsiString ) : AnsiString
3464: ///Function StrBefore( const SubStr, S : AnsiString ) : AnsiString
3465: Function StrBetween( const S : AnsiString; const Start, Stop : AnsiChar ) : AnsiString
3466: Function StrChopRight( const S : AnsiString; N : Integer ) : AnsiString
3467: Function StrLeft( const S : AnsiString; Count : Integer ) : AnsiString
3468: Function StrMid( const S : AnsiString; Start, Count : Integer ) : AnsiString
3469: Function StrRestOf( const S : AnsiString; N : Integer ) : AnsiString
3470: Function StrRight( const S : AnsiString; Count : Integer ) : AnsiString
3471: Function CharEqualNoCase( const C1, C2 : AnsiChar ) : Boolean
3472: Function CharIsAlpha( const C : AnsiChar ) : Boolean
3473: Function CharIsAlphaNum( const C : AnsiChar ) : Boolean
3474: Function CharIsBlank( const C : AnsiChar ) : Boolean
3475: Function CharIsControl( const C : AnsiChar ) : Boolean
3476: Function CharIsDelete( const C : AnsiChar ) : Boolean
3477: Function CharIsDigit( const C : AnsiChar ) : Boolean
3478: Function CharIsLower( const C : AnsiChar ) : Boolean
3479: Function CharIsNumberChar( const C : AnsiChar ) : Boolean
3480: Function CharIsPrintable( const C : AnsiChar ) : Boolean
3481: Function CharIsPunctuation( const C : AnsiChar ) : Boolean
3482: Function CharIsReturn( const C : AnsiChar ) : Boolean
3483: Function CharIsSpace( const C : AnsiChar ) : Boolean
3484: Function CharIsUpper( const C : AnsiChar ) : Boolean
3485: Function CharIsWhiteSpace( const C : AnsiChar ) : Boolean
3486: Function CharType( const C : AnsiChar ) : Word
3487: Function CharHex( const C : AnsiChar ) : Byte
3488: Function CharLower( const C : AnsiChar ) : AnsiChar
3489: Function CharUpper( const C : AnsiChar ) : AnsiChar

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3490: Function CharToggleCase( const C : AnsiChar ) : AnsiChar
3491: Function CharPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3492: Function CharLastPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3493: Function CharIPos( const S : AnsiString; C : AnsiChar; const Index : Integer ) : Integer
3494: Function CharReplace( var S : AnsiString; const Search, Replace : AnsiChar ) : Integer
3495: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean)
3496: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean)
3497: Function StringsToStr(const List:TStrings;const Sep:AnsiString;const AllowEmptyString:Bool):AnsiString;
3498: Procedure TrimStrings( const List : TStrings; DeleteIfEmpty : Boolean)
3499: Procedure TrimStringsRight( const List : TStrings; DeleteIfEmpty : Boolean)
3500: Procedure TrimStringsLeft( const List : TStrings; DeleteIfEmpty : Boolean)
3501: Function AddStringToStrings(const S:AnsiString;Strings:TStrings; const Unique:Boolean):Boolean
3502: Function BooleanToStr( B : Boolean ) : AnsiString
3503: Function FileToString( const FileName : AnsiString ) : AnsiString
3504: Procedure StringToFile( const FileName, Contents : AnsiString; Append : Boolean)
3505: Function StrToken( var S : AnsiString; Separator : AnsiChar ) : AnsiString
3506: Procedure StrTokens( const S : AnsiString; const List : TStrings)
3507: Procedure StrTokenToStrings( S : AnsiString; Separator : AnsiChar; const List : TStrings)
3508: //Function StrWord( var S : PAnsiChar; out Word : AnsiString ) : Boolean
3509: Function StrToFloatSafe( const S : AnsiString ) : Float
3510: Function StrToIntSafe( const S : AnsiString ) : Integer
3511: Procedure StrNormIndex( const StrLen : Integer; var Index : Integer; var Count : Integer);
3512: Function ArrayOf( List : TStrings ) : TDynStringArray;
3513: EJclStringError', 'EJclError
3514: function IsClass(Address: TObject): Boolean;
3515: function IsObject(Address: TObject): Boolean;
3516: // Console Utilities
3517: //function ReadKey: Char;
3518: function IntToStrZeroPad(Value, Count: Integer): AnsiString;
3519: function JclGUIDToString(const GUID: TGUID): string;
3520: function JclStringToGUID(const S: string): TGUID;
3521:
3522: end;
3523:
3524:
3525: ***** uPSI_JvDBUtil;
3526: Procedure ExecutesSQLScript(Base:TDataBase; const Script: string; const
Commit:TCommit;OnProgress:TOnProgress; const UserData : Integer)
3527: Function GetQueryResult( const DatabaseName, SQL : string ) : Variant
3528: Function GetStoredProcResult( const ADatabaseName, AStoredProcName : string; AParams : array of Variant;
const AResultName : string ) : Variant
3529: //Function StrFieldDesc( Field : FLDDesc ) : string
3530: Function Var2Type( V : Variant; const VarType : Integer ) : Variant
3531: Procedure CopyRecord( DataSet : TDataSet)
3532: //Procedure AddReference( Tbl : TTable; RefName : string; RefField : Word; MasterTable : string;
MasterField : Word; ModOp, DelOp : RINTQual)
3533: Procedure AddMasterPassword( Table : TTable; pswd : string)
3534: Procedure PackTable( Table : TTable)
3535: Procedure PackEncryptedTable( Table : TTable; pswd : string)
3536: Function EncodeQuotes( const S : string ) : string
3537: Function Cmp( const S1, S2 : string ) : Boolean
3538: Function SubStr( const S : string; const Index : Integer; const Separator : string ) : string
3539: Function SubStrEnd( const S : string; const Index : Integer; const Separator : string ) : string
3540: Function ReplaceString( S : string; const OldPattern, NewPattern : string ) : string
3541: Procedure GetXYByPos( const S : string; const Pos : Integer; var X, Y : Integer)
3542: *****uPSI_JvJvBDEUtils;*****
3543: //JvBDEUtils
3544: Function CreateDbLocate : TJvLocateObject
3545: //Function CheckOpen( Status : DBIResult ) : Boolean
3546: Procedure FetchAllRecords( DataSet : TBDEDataSet)
3547: Function TransActive( Database : TDatabase ) : Boolean
3548: Function AsyncQrySupported( Database : TDatabase ) : Boolean
3549: Function GetQuoteChar( Database : TDatabase ) : string
3550: Procedure ExecuteQuery( const DbName, QueryText : string)
3551: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string)
3552: Function FieldLogicMap( FldType : TFieldType ) : Integer
3553: Function FieldSubtypeMap( FldType : TFieldType ) : Integer Value : string; Buffer : Pointer)
3554: Function GetAliasPath( const AliasName : string ) : string
3555: Function IsDirectory( const DatabaseName : string ) : Boolean
3556: Function GetBdeDirectory : string
3557: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3558: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3559: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3560: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3561: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3562: Function DataSetPositionStr( DataSet : TDataSet ) : string
3563: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean)
3564: Function CurrentRecordDeleted( DataSet : TBDEDataSet ) : Boolean
3565: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3566: Function IsBookmarkStable( DataSet : TBDEDataSet ) : Boolean
3567: Procedure SetIndex( Table : TTable; const IndexFieldNames : string)
3568: Procedure RestoreIndex( Table : TTable)
3569: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const)
3570: Procedure PackTable( Table : TTable)
3571: Procedure ReindexTable( Table : TTable)
3572: Procedure BdeFlushBuffers
3573: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3574: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string)
3575: Procedure DbNotSupported

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3576: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint)
3577: Procedure ExportDataSetEx( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter,AsciiSeparator:Char;MaxRecordCount:Longint);
3578: Procedure
  ImportDataSet(Source:TBDEDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3579: Procedure InitRSRUN(Database: TDatabase;const ConName:string; ConType:Integer;const ConServer:string);
3580: *****uPSI_JvDateUtil;
3581: function CurrentYear: Word;
3582: function IsLeapYear(AYear: Integer): Boolean;
3583: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3584: function FirstDayOfPrevMonth: TDateTime;
3585: function LastDayOfPrevMonth: TDateTime;
3586: function FirstDayOfNextMonth: TDateTime;
3587: function ExtractDay(ADate: TDateTime): Word;
3588: function ExtractMonth(ADate: TDateTime): Word;
3589: function ExtractYear(ADate: TDateTime): Word;
3590: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3591: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3592: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3593: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3594: function ValidDate(ADate: TDateTime): Boolean;
3595: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
3596: function MonthsBetween(Date1, Date2: TDateTime): Double;
3597: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
3598: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
3599: function DaysBetween(Date1, Date2: TDateTime): Longint;
3600: { The same as previous but if Date2 < Date1 result = 0 }
3601: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3602: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3603: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3604: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3605: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3606: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3607: { String to date conversions }
3608: function GetDateOrder(const DateFormat: string): TDateOrder;
3609: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3610: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3611: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3612: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3613: function DefDateFormat(FourDigitYear: Boolean): string;
3614: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3615: -----
3616: ***** JvUtils;*****
3617: { GetWordOnPos returns Word from string, S, on the cursor position, P }
3618: function GetWordOnPos(const S: string; const P: Integer): string;
3619: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3620: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3621: { SubStr returns substring from string, S, separated with Separator string }
3622: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3623: { SubStrEnd same to previous function but Index numerated from the end of string }
3624: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3625: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3626: function SubWord(P: PChar; var P2: PChar): string;
3627: { NumberByWord returns the text representation of
  the number, N, in normal russian language. Was typed from Monitor magazine }
3628: function NumberByWord(const N: Longint): string;
3629: // function CurrencyByWord(Value : Currency) : string; GetLineByPos returns Line number, there
3630: //the symbol Pos is pointed. Lines separated with #13 symbol }
3631: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3632: { GetXYByPos is same to previous function, but returns X position in line too }
3633: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3634: { ReplaceString searches for all substrings, OldPattern,in a string, S, and replaces them with NewPattern }
3635: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3636: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3637: function ConcatSep(const S, S2, Separator: string): string;
3638: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3639: function ConcatLeftSep(const S, S2, Separator: string): string;
3640: { MinimizeString truncs long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3641: function MinimizeString(const S: string; const MaxLen: Integer): string;
3642: { Next 4 function for russian chars transliterating.
  This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3643: procedure Dos2Win(var S: string);
3644: procedure Win2Dos(var S: string);
3645: function Dos2WinRes(const S: string): string;
3646: function Win2DosRes(const S: string): string;
3647: function Win2Koi(const S: string): string;
3648: { Spaces returns string consists on N space chars }
3649: function Spaces(const N: Integer): string;
3650: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3651: function AddSpaces(const S: string; const N: Integer): string;
3652: { function LastDate for russian users only } { returns date relative to current date: '' }
3653: function LastDate(const Dat: TDateTime): string;
3654: { CurrencyToStr format currency, Cur, using ffCurrency float format }
3655: function CurrencyToStr(const Cur: currency): string;
3656: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3657: function Cmp(const S1, S2: string): Boolean;
3658: { StringCat add S2 string to S1 and returns this string }
3659: function StringCat(var S1: string; S2: string): string;

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3662: { HasChar returns True, if Char, Ch, contains in string, S }
3663: function HasChar(const Ch: Char; const S: string): Boolean;
3664: function HasAnyChar(const Chars: string; const S: string): Boolean;
3665: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3666: function CountOfChar(const Ch: Char; const S: string): Integer;
3667: function DefStr(const S: string; Default: string): string;
3668: {**** files routines}
3669: { GetWinDir returns Windows folder name }
3670: function GetWinDir: TFileName;
3671: function GetSysDir: string;
3672: { GetTempDir returns Windows temporary folder name }
3673: function GetTempDir: string;
3674: { GetTempFileName returns temporary file name on drive, there FileName is placed }
3675: function GetTempFileName(FileName: string): string;
3676: { GetTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3677: function GetTempFileNameExt(FileName: string; const FileExt: string): string;
3678: { ClearDir clears folder Dir }
3679: function ClearDir(const Dir: string): Boolean;
3680: { DeleteDir clears and than delete folder Dir }
3681: function DeleteDir(const Dir: string): Boolean;
3682: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3683: function FileEquMask(FileName, Mask: TFileName): Boolean;
3684: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3685:   Masks must be separated with comma (',' ) }
3686: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3687: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3688: { LZFileExpand expand file, FileSource into FileDest. File must be compressed, using MS Compress program }
3689: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3690: { FileGetInfo fills SearchRec record for specified file attributes}
3691: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3692: { HasSubFolder returns True, if folder APath contains other folders }
3693: function HasSubFolder(APath: TFileName): Boolean;
3694: { IsEmptyFolder returns True, if there are no files or folders in given folder, APath}
3695: function IsEmptyFolder(APath: TFileName): Boolean;
3696: { AddSlash add slash Char to Dir parameter, if needed }
3697: procedure AddSlash(var Dir: TFileName);
3698: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3699: function AddSlash2(const Dir: TFileName): string;
3700: { AddPath returns FileName with Path, if FileName not contain any path }
3701: function AddPath(const FileName, Path: TFileName): TFileName;
3702: function AddPaths(const PathList, Path: string): string;
3703: function ParentPath(const Path: TFileName): TFileName;
3704: function FindInPath(const FileName, PathList: string): TFileName;
3705: function FindInPaths(const fileName, paths: string): string;
3706: {$IFDEF BCB1}
3707: { BrowseForFolder displays Browse For Folder dialog }
3708: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3709: {$ENDIF BCB1}
3710: function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3711: function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3712: function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3713: function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3714:
3715: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3716: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3717: { HasParam returns True, if program running with specified parameter, Param }
3718: function HasParam(const Param: string): Boolean;
3719: function HasSwitch(const Param: string): Boolean;
3720: function Switch(const Param: string): string;
3721: { ExePath returns ExtractFilePath(ParamStr(0)) }
3722: function ExePath: TFileName;
3723: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3724: function FileTimeToDateTime(const FT: TFileTime): TDateTime;
3725: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3726: {**** Graphic routines }
3727: { TTFontSelected returns True, if True Type font is selected in specified device context }
3728: function TTFontSelected(const DC: HDC): Boolean;
3729: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3730: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3731: {**** Windows routines }
3732: { SetWindowTop put window to top without recreating window }
3733: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3734: {**** other routines }
3735: { KeyPressed returns True, if Key VK is now pressed }
3736: function KeyPressed(VK: Integer): Boolean;
3737: procedure SwapInt(var Int1, Int2: Integer);
3738: function IntPower(Base, Exponent: Integer): Integer;
3739: function ChangeTopException(E: TObject): TObject;
3740: function StrToBool(const S: string): Boolean;
3741: {$IFDEF COMPILER3_UP}
3742: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3743:   Length of MaxLen bytes. The compare operation is controlled by the
3744:   current Windows locale. The return value is the same as for CompareStr. }
3745: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3746: function AnsiStrIComp(S1, S2: PChar): Integer;
3747: {$ENDIF}
3748: function Var2Type(V: Variant; const VarType: Integer): Variant;

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3749: function VarToInt(V: Variant): Integer;
3750: function VarToFloat(V: Variant): Double;
3751: { following functions are not documented because they are don't work properly , so don't use them }
3752: function ReplaceSokrl(S: string; const Word, Frase: string): string;
3753: { ReplaceSokrl is full equal to ReplaceString function - only for compatibility - don't use }
3754: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3755: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3756: function GetParameter: string;
3757: function GetLongFileName(FileName: string): string;
3758: { * from FileCtrl }
3759: function DirectoryExists(const Name: string): Boolean;
3760: procedure ForceDirectories(Dir: string);
3761: { # from FileCtrl }
3762: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3763: function GetComputerID: string;
3764: function GetComputerName: string;
3765: { **** string routines }
3766: { ReplaceAllSokr searches for all substrings, Words, in a string, S, and replaces them with Frases with the
  same Index. Also see RAUtilsW.ReplaceSokrl function }
3767: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3768: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
  in the list, Words, and if founds, replaces this Word with string from another list, Frases, with the
  same Index, and then update NewSelStart variable }
3770: function ReplaceSokr(S: string; PosBeg, Len: Integer; Words, Frases: TStrings; var NewSelStart: Integer): string;
3771: { CountOfLines calculates the lines count in a string, each line separated from another with CrLf sequence }
3772: function CountOfLines(const S: string): Integer;
3773: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3774: procedure DeleteEmptyLines(Ss: TStrings);
3775: { SQLAddWhere addres or modifies existing where-statement, where, to the strings, SQL.
  Note: If strings SQL allready contains where-statement, it must be started on beginning of any line }
3777: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3778: { **** files routines - }
3779: { ResSaveToFile save resource named as Name with Typ type into file FileName.
  Resource can be compressed using MS Compress program }
3781: function ResSaveToFile(const Typ, Name: string; const Compressed: Boolean; const FileName: string): Boolean;
3782: function ResSaveToFileEx(Inst: HINST; Typ, Name: PChar; const Compressed: Boolean; const FileName: string): Boolean;
3783: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3784: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3785: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3786: { IniReadSection read section, Section, from ini-file,
  IniFileName, into strings, Ss. This function reads ALL strings from specified section.
  Note: TIniFile.ReadSection function reads only strings with '=' symbol. }
3789: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3790: { LoadTextFile load text file, FileName, into string }
3791: function LoadTextFile(const FileName: TFileName): string;
3792: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3793: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList }
3794: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3795: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3796: { $IFDEF COMPILER3_UP }
3797: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3798: function TargetFileName(const FileName: TFileName): TFileName;
3799: { return filename ShortCut linked to }
3800: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3801: { $ENDIF COMPILER3_UP }
3802: { **** Graphic routines - }
3803: { LoadIcoToImage loads two icons from resource named NameRes, into two image lists ALarge and ASmall }
3804: procedure LoadIcoToImage(ALarge, ASmall: TImageList; const NameRes: string);
3805: { RAtextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3806: procedure RAtextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3807: { RAtextOutEx same with RAtextOut function, but can calculate needed height for correct output }
3808: function RAtextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
3809: { RAtextCalcHeight calculate needed height to correct output, using RAtextOut or RAtextOutEx functions }
3810: function RAtextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3811: { Cinema draws some visual effect }
3812: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3813: { Roughed fills rect with special 3D pattern }
3814: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3815: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
  and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
3816: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3817: { TextWidth calculate text with for writing using standard desktop font }
3818: function TextWidth(AStr: string): Integer;
3819: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3820: function DefineCursor(Identifier: PChar): TCursor;
3821: { **** other routines - }
3822: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3823: function FindFormByClass(FormClass: TFormClass): TForm;
3824: function FindFormByClassName(FormClassName: string): TForm;
3825: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
  having Tag property value, equal to Tag parameter }
3827: function FindByTag(WinControl: TWinControl; ComponentClass: TComponentClass; const Tag: Integer): TComponent;
3828: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3829: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3830: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3831: function RBTAG(Parent: TWinControl): Integer;
3832: { AppMinimized returns True, if Application is minimized }
3833: function AppMinimized: Boolean;
3834: { MessageBox is Application.MessageBox with string (not PChar) parameters.

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3835:   if Caption parameter = '', it replaced with Application.Title }
3836: function MessageBoxJ(const Msg: string; Caption: string;const Flags: Integer): Integer;
3837: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
3838:   Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3839: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
3840:   Buttons: TMsgDlgButtons; DefButton:TMsgDlgBtn; HelpContext: Integer;Control: TWinControl): Integer;
3841: { Delay stop program execution to MSec msec }
3842: procedure Delay(MSec: Longword);
3843: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3844: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3845: procedure EnableMenuItems(MenuItems: TMenuItem; const Tag: Integer; const Enable: Boolean);
3846: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3847: function PanelBorder(Parent: TCustomPanel): Integer;
3848: function Pixels(Control: TControl; APixels: Integer): Integer;
3849: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3850: procedure Error(const Msg: string);
3851: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
3852:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3853:   {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>' }
3854: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3855:   const HideSelColor: Boolean): string;
3856: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
3857:   const HideSelColor: Boolean): Integer;
3858: function ItemHtPlain(const Text: string): string;
3859: { ClearList - clears list of TObject }
3860: procedure ClearList(List: TList);
3861: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
3862: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
3863: { RTTI support }
3864: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3865: function GetPropStr(Obj: TObject; const PropName: string): string;
3866: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3867: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3868: procedure PrepareIniSection(SS: TStringList);
3869: { following functions are not documented because they are don't work properly, so don't use them }
3870: {$IFDEF COMPILER2}
3871: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3872: {$ENDIF}
3873:
3874: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3875: begin
3876:   Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3877:   Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3878:   Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
3879:   Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3880:   Procedure BoxMoveSelected( List : TWinControl; Items : TStringList)
3881:   Procedure BoxSetItem( List : TWinControl; Index : Integer)
3882:   Function BoxGetFirstSelection( List : TWinControl ) : Integer
3883:   Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3884: end;
3885:
3886: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3887: begin
3888:   Const('MaxInitStrNum','LongInt').SetInt( 9);
3889:   Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
: array of AnsiString; MaxSplit : Integer ) : Integer
3890:   Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
string; MaxSplit : Integer ) : Integer
3891:   Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
QuoteChar:AnsiChar;OutStrs:TStrings):Integer;
3892:   Function JvAnsiStrStrip( S : AnsiString ) : AnsiString
3893:   Function JvStrStrip( S : string ) : string
3894:   Function GetString( var Source : AnsiString; const Separator : AnsiString ) : AnsiString
3895:   Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3896:   Function BuildPathName( const PathName, FileName : AnsiString ) : AnsiString
3897:   Function StrEatWhiteSpace( const S : string ) : string
3898:   Function HexToAscii( const S : AnsiString ) : AnsiString
3899:   Function AsciiToHex( const S : AnsiString ) : AnsiString
3900:   Function StripQuotes( const S1 : AnsiString ) : AnsiString
3901:   Function ValidNumericLiteral( S1 : PAnsiChar ) : Boolean
3902:   Function ValidIntLiteral( S1 : PAnsiChar ) : Boolean
3903:   Function ValidHexLiteral( S1 : PAnsiChar ) : Boolean
3904:   Function HexPCharToInt( S1 : PAnsiChar ) : Integer
3905:   Function ValidStringLiteral( S1 : PAnsiChar ) : Boolean
3906:   Function StripPCharQuotes( S1 : PAnsiChar ) : AnsiString
3907:   Function JvValidIdentifierAnsi( S1 : PAnsiChar ) : Boolean
3908:   Function JvValidIdentifier( S1 : String ) : Boolean
3909:   Function JvEndChar( X : AnsiChar ) : Boolean
3910:   Procedure JvGetToken( S1, S2 : PAnsiChar)
3911:   Function IsExpressionKeyword( S1 : PAnsiChar ) : Boolean
3912:   Function IsKeyword( S1 : PAnsiChar ) : Boolean
3913:   Function JvValidVarReference( S1 : PAnsiChar ) : Boolean
3914:   Function GetParenthesis( S1, S2 : PAnsiChar ) : Boolean
3915:   Procedure JvGetVarReference( S1, S2, SIdx : PAnsiChar)
3916:   Procedure JvEatWhitespaceChars( S1 : PAnsiChar);
3917:   Procedure JvEatWhitespaceChars1( S1 : PWideChar);
3918:   Function GetTokenCount : Integer
3919:   Procedure ResetTokenCount

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3920: end;
3921:
3922: procedure SIRegister_JvDBQueryParamsForm(CL: TPSPascalCompiler);
3923: begin
3924:   SIRegister_TJvQueryParamsDialog(CL);
3925:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
3926: end;
3927:
3928: ***** JvStrUtil / JvStrUtils;*****
3929: function FindNotBlankCharPos(const S: string): Integer;
3930: function AnsiChangeCase(const S: string): string;
3931: function GetWordOnPos(const S: string; const P: Integer): string;
3932: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3933: function Cmp(const S1, S2: string): Boolean;
3934: { Spaces returns string consists on N space chars }
3935: function Spaces(const N: Integer): string;
3936: { HasChar returns True, if char, Ch, contains in string, S }
3937: function HasChar(const Ch: Char; const S: string): Boolean;
3938: function HasAnyChar(const Chars: string; const S: string): Boolean;
3939: { SubStr returns substring from string, S, separated with Separator string }
3940: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3941: { SubStrEnd same to previous function but Index numerated from the end of string }
3942: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3943: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
3944: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3945: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3946: { GetXYByPos is same to previous function, but returns X position in line too }
3947: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3948: { AddSlash returns string with added slash char to Dir parameter, if needed }
3949: function AddSlash2(const Dir: TFileName): string;
3950: { AddPath returns FileName with Path, if FileName not contain any path }
3951: function AddPath(const FileName, Path: TFileName): TFileName;
3952: { ExePath returns ExtractFilePath(ParamStr(0)) }
3953: function ExePath: TFileName;
3954: function LoadTextFile(const FileName: TFileName): string;
3955: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3956: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3957: function ConcatSep(const S, S2, Separator: string): string;
3958: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3959: function FileEquMask(FileName, Mask: TFileName): Boolean;
3960: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3961:   Masks must be separated with comma (',' ) }
3962: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3963: function StringEndsWith(const Str, SubStr: string): Boolean;
3964: function ExtractFilePath2(const FileName: string): string;
3965: function StrToOem(const AnsiStr: string): string;
3966: { StrToOem translates a string from the Windows character set into the OEM character set. }
3967: function OemToAnsiStr(const OemStr: string): string;
3968: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
3969: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
3970: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
3971: function ReplaceStr(const S, Srch, Replace: string): string;
3972: { Returns string with every occurrence of Srch string replaced with Replace string. }
3973: function DelSpace(const S: string): string;
3974: { DelSpace return a string with all white spaces removed. }
3975: function DelChars(const S: string; Chr: Char): string;
3976: { DelChars return a string with all Chr characters removed. }
3977: function DelBSpace(const S: string): string;
3978: { DelBSpace trims leading spaces from the given string. }
3979: function DelESpace(const S: string): string;
3980: { DelESpace trims trailing spaces from the given string. }
3981: function DelRSpace(const S: string): string;
3982: { DelRSpace trims leading and trailing spaces from the given string. }
3983: function DelSpace1(const S: string): string;
3984: { DelSpace1 return a string with all non-single white spaces removed. }
3985: function Tab2Space(const S: string; Numb: Byte): string;
3986: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
3987: function NPos(const C: string; S: string; N: Integer): Integer;
3988: { NPos searches for a N-th position of substring C in a given string. }
3989: function MakeStr(C: Char; N: Integer): string;
3990: function MS(C: Char; N: Integer): string;
3991: { MakeStr return a string of length N filled with character C. }
3992: function AddChar(C: Char; const S: string; N: Integer): string;
3993: { AddChar return a string left-padded to length N with characters C. }
3994: function AddCharR(C: Char; const S: string; N: Integer): string;
3995: { AddCharR return a string right-padded to length N with characters C. }
3996: function LeftStr(const S: string; N: Integer): string;
3997: { LeftStr return a string right-padded to length N with blanks. }
3998: function RightStr(const S: string; N: Integer): string;
3999: { RightStr return a string left-padded to length N with blanks. }
4000: function CenterStr(const S: string; Len: Integer): string;
4001: { CenterStr centers the characters in the string based upon the Len specified. }
4002: function CompStr(const S1, S2: string): Integer;
4003: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4004: function CompText(const S1, S2: string): Integer;
4005: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4006: function Copy2Symb(const S: string; Symb: Char): string;
4007: { Copy2Symb returns a substring of a string S from begining to first character Symb. }
4008: function Copy2SymbDel(var S: string; Symb: Char): string;

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4009: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4010: function Copy2Space(const S: string): string;
4011: { Copy2Symb returns a substring of a string S from begining to first white space. }
4012: function Copy2SpaceDel(var S: string): string;
4013: { Copy2SpaceDel returns a substring of a string S from begining to first
4014: white space and removes this substring from S. }
4015: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4016: { Returns string, with the first letter of each word in uppercase,
4017: all other letters in lowercase. Words are delimited by WordDelims. }
4018: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4019: { WordCount given a set of word delimiters, returns number of words in S. }
4020: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4021: { Given a set of word delimiters, returns start position of N'th word in S. }
4022: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4023: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TCharSet; var Pos: Integer): string;
4024: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4025: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4026: delimiters, return the N'th word in S. }
4027: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4028: { ExtractSubstr given set of word delimiters, returns the substring from S, that started from position Pos. }
4029: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4030: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4031: function QuotedString(const S: string; Quote: Char): string;
4032: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4033: function ExtractQuotedString(const S: string; Quote: Char): string;
4034: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string,
4035: and reduces pairs of Quote characters within the quoted string to a single character. }
4036: function FindPart(const HelpWilds, InputStr: string): Integer;
4037: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4038: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4039: { IsWild compares InputStr with WildCard string and returns True if corresponds. }
4040: function XorString(const Key, Src: ShortString): ShortString;
4041: function XorEncode(const Key, Source: string): string;
4042: function XorDecode(const Key, Source: string): string;
4043: { ** Command line routines ** }
4044: {$IFDEF COMPILER4_UP}
4045: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet; IgnoreCase: Boolean): Boolean;
4046: {$ENDIF}
4047: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4048: { ** Numeric string handling routines ** }
4049: function Numb2USA(const S: string): string;
4050: { Numb2USA converts numeric string S to USA-format. }
4051: function Dec2Hex(N: Longint; A: Byte): string;
4052: function D2H(N: Longint; A: Byte): string;
4053: { Dec2Hex converts the given value to a hexadecimal string representation
4054: with the minimum number of digits (A) specified. }
4055: function Hex2Dec(const S: string): Longint;
4056: function H2D(const S: string): Longint;
4057: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4058: function Dec2Numb(N: Longint; A, B: Byte): string;
4059: { Dec2Numb converts the given value to a string representation with the
4060: base equal to B and with the minimum number of digits (A) specified. }
4061: function Numb2Dec(S: string; B: Byte): Longint;
4062: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4063: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4064: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4065: function IntToRoman(Value: Longint): string;
4066: { IntToRoman converts the given value to a roman numeric string representation. }
4067: function RomanToInt(const S: string): Longint;
4068: { RomanToInt converts the given string to an integer value. If the string
4069: doesn't contain a valid roman numeric value, the 0 value is returned. }
4070: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4071: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4072: ***** JvFileUtil; *****
4073: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4074: procedure CopyFileEx(const FileName, DestName: string; OverwriteReadOnly, ShellDialog: Boolean; ProgressControl:
TControl);
4075: procedure MoveFile(const FileName, DestName: TFileName);
4076: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4077: {$IFDEF COMPILER4_UP}
4078: function GetFileSize(const FileName: string): Int64;
4079: {$ELSE}
4080: function GetFileSize(const FileName: string): Longint;
4081: {$ENDIF}
4082: function FileDateTime(const FileName: string): TDateTime;
4083: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4084: function DeleteFiles(const FileMask: string): Boolean;
4085: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4086: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4087: function NormalDir(const DirName: string): string;
4088: function RemoveBackSlash(const DirName: string): string;
4089: function ValidFileName(const FileName: string): Boolean;
4090: function DirExists(Name: string): Boolean;
4091: procedure ForceDirectories(Dir: string);
4092: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4093: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4094: {$IFDEF COMPILER4_UP}
4095: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4096: {$ENDIF}

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4097: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4098: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4099: {$IFDEF COMPILER4_UP}
4100: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4101: {$ENDIF}
4102: function GetTempDir: string;
4103: function GetWindowsDir: string;
4104: function GetSystemDir: string;
4105: function BrowseDirectory(var AFolderName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4106: {$IFDEF WIN32}
4107: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4108: function ShortToLongFileName(const ShortName: string): string;
4109: function ShortToLongPath(const ShortName: string): string;
4110: function LongToShortFileName(const LongName: string): string;
4111: function LongToShortPath(const LongName: string): string;
4112: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4113: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4114: {$ENDIF WIN32}
4115: {$IFDEF COMPILER3_UP}
4116: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4117: {$ENDIF}
4118: function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm
4119: function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl
4120: function CreatePopupCalculator( AOwner : TComponent ) : TWinControl
4121: procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean)
4122:
4123: //*****procedure SRegister_VarHlpr(CL: TPSPascalCompiler);
4124: procedure VariantClear( var V : Variant)
4125: procedure VariantArrayRedim( var V : Variant; High : Integer)
4126: procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
4127: procedure VariantCpy( const src : Variant; var dst : Variant)
4128: procedure VariantAdd( const src : Variant; var dst : Variant)
4129: procedure VariantSub( const src : Variant; var dst : Variant)
4130: procedure VariantMul( const src : Variant; var dst : Variant)
4131: procedure VariantDiv( const src : Variant; var dst : Variant)
4132: procedure VariantMod( const src : Variant; var dst : Variant)
4133: procedure VariantAnd( const src : Variant; var dst : Variant)
4134: procedure VariantOr( const src : Variant; var dst : Variant)
4135: procedure VariantXor( const src : Variant; var dst : Variant)
4136: procedure VariantShl( const src : Variant; var dst : Variant)
4137: procedure VariantShr( const src : Variant; var dst : Variant)
4138: function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant
4139: function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant
4140: function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant
4141: function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant
4142: function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant
4143: function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant
4144: function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant
4145: function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant
4146: function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant
4147: function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant
4148: function VariantNot( const V1 : Variant ) : Variant
4149: function VariantNeg( const V1 : Variant ) : Variant
4150: function VariantGetElement( const V : Variant; i1 : integer ) : Variant;
4151: function VariantGetElement1( const V : Variant; i1, i2 : integer ) : Variant;
4152: function VariantGetElement2( const V : Variant; i1, i2, i3 : integer ) : Variant;
4153: function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer ) : Variant;
4154: function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer ) : Variant;
4155: procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer);
4156: procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer);
4157: procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer);
4158: procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer);
4159: procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer);
4160: end;
4161:
4162: *****unit uPSI_JvgUtils;*****
4163: function IsEven(I: Integer): Boolean;
4164: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4165: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4166: procedure SwapInt(var I1, I2: Integer);
4167: function Spaces(Count: Integer): string;
4168: function DupStr(const Str: string; Count: Integer): string;
4169: function DupChar(C: Char; Count: Integer): string;
4170: procedure Msg(const AMsg: string);
4171: function RectW(R: TRect): Integer;
4172: function RectH(R: TRect): Integer;
4173: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4174: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4175: function IsItAFilledBitmap(Bmp: TBitmap): Boolean;
4176: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4177:   HAlign: TglHorAlign; VAlign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4178: procedure DrawTextInRect(DC: HDC; R: TRect; const Text:string;Style:TglTextStyle;Fnt:TFont;Flags: UINT);
4179: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4180:   Style: TglTextStyle; ADelinedated, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor:
4181:   TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4181: procedure DrawBox(DC:HDC; var R:TRect; Style:TglBoxStyle;BackgrColor: Longint; ATransparent: Boolean);
4182: function DrawBoxEx(DC: HDC; ARect: TRect; Borders: TglSides;
4183:   BevelInner, BevelOuter: TPanelBevel; Bold:Boolean; BackgrColor: Longint;ATransparent: Boolean): TRect;
4184: procedure GradientBox(DC: HDC; R: TRect; Gradient: TJvgGradient;PenStyle, PenWidth: Integer);

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4185: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4186: procedure DrawBitmapExt(DC: HDC; { DC - background & result }
4187:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; {...X,Y_in_rect!
4188:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4189:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4190: procedure CreateBitmapExt(DC: HDC; { DC - background & result }
4191:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; {...X,Y_in_rect!
4192:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4193:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4194: procedure BringParentWindowToTop(Wnd: TWinControl);
4195: function GetParentForm(Control: TControl): TForm;
4196: procedure GetWindowImageFrom(Control: TWinControl; X, Y: Integer; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC)
4197: procedure GetWindowImage(Control: TWinControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4198: procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4199: function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4200: function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4201: procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4202: function CalcMathString(AExpression: string): Single;
4203: function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4204: function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4205: function GetTransparentColor(Bitmap: TBitmap; AutoTransparentColor: TglAutoTransparentColor): TColor;
4206: procedure TypeStringOnKeyboard(const S: string);
4207: function NextStringGridCell(Grid: TStringGrid): Boolean;
4208: procedure DrawTextExtAligned(Canvas: TCanvas; const
  Text: string; R: TRect; Alignment: TglAlignment; WordWrap: Boolean);
4209: procedure LoadComponentFromTextFile(Component: TComponent; const FileName: string);
4210: procedure SaveComponentToTextFile(Component: TComponent; const FileName: string);
4211: function ComponentToString(Component: TComponent): string;
4212: procedure StringToComponent(Component: TComponent; const Value: string);
4213: function PlayWaveResource(const ResName: string): Boolean;
4214: function UserName: string;
4215: function ComputerName: string;
4216: function CreateIniFileName: string;
4217: function ExpandString(const Str: string; Len: Integer): string;
4218: function Transliterate(const Str: string; RusToLat: Boolean): string;
4219: function IsSmallFonts: Boolean;
4220: function SystemColorDepth: Integer;
4221: function GetFileTypeJ(const FileName: string): TglFileType;
4222: function FindControlAtPt(Control: TWinControl; Pt: TPoint; MinClass: TClass): TControl;
4223: function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4224:
4225: { *****Utility routines of unit classes}
4226: function LineStart(Buffer, BufPos: PChar): PChar
4227: function ExtractStrings(Separators, WhiteSpace: TSysCharSet; Content: PChar; +
4228:   'Strings: TStringList): Integer
4229: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
4230: procedure RegisterClass(AClass: TPersistentClass)
4231: procedure RegisterClasses(AClasses: array of TPersistentClass)
4232: procedure RegisterClassAlias(AClass: TPersistentClass; const Alias: string)
4233: procedure UnRegisterClass(AClass: TPersistentClass)
4234: procedure UnRegisterClasses(AClasses: array of TPersistentClass)
4235: procedure UnRegisterModuleClasses(Module: HMODULE)
4236: function FindGlobalComponent(const Name: string): TComponent
4237: function IsUniqueGlobalComponentName(const Name: string): Boolean
4238: function InitInheritedComponent(Instance: TComponent; RootAncestor: TClass): Boolean
4239: function InitComponentRes(const ResName: string; Instance: TComponent): Boolean
4240: function ReadComponentRes(const ResName: string; Instance: TComponent): TComponent
4241: function ReadComponentResEx(HInstance: THandle; const ResName: string): TComponent
4242: function ReadComponentResFile(const FileName: string; Instance: TComponent): TComponent
4243: procedure WriteComponentResFile(const FileName: string; Instance: TComponent)
4244: procedure GlobalFixupReferences
4245: procedure GetFixupReferenceNames(Root: TComponent; Names: TStringList)
4246: procedure GetFixupInstanceNames(Root: TComponent; const ReferenceRootName: string; Names: TStringList)
4247: procedure RedirectFixupReferences(Root: TComponent; const OldRootName, NewRootName: string)
4248: procedure RemoveFixupReferences(Root: TComponent; const RootName: string)
4249: procedure RemoveFixups(Instance: TPersistent)
4250: function FindNestedComponent(Root: TComponent; const NamePath: string): TComponent
4251: procedure BeginGlobalLoading
4252: procedure NotifyGlobalLoading
4253: procedure EndGlobalLoading
4254: function GetUltimateOwner1(ACollection: TCollection): TPersistent;
4255: function GetUltimateOwner(APersistent: TPersistent): TPersistent;
4256: // AddTypes('TWndMethod', 'Procedure (var Message: TMessage)
4257: //Function MakeObjectInstance(Method: TWndMethod): Pointer
4258: procedure FreeObjectInstance(ObjectInstance: Pointer)
4259: // Function AllocateHWnd(Method: TWndMethod): HWND
4260: procedure DeallocateHWnd(Wnd: HWND)
4261: function AncestorIsValid(Ancestor: TPersistent; Root, RootAncestor: TComponent): Boolean
4262: *****unit uPSI_SqlTimSt and DB;*****
4263: procedure VarSQLTimeStampCreate4(var aDest: Variant; const ASQLTimeStamp: TSQLTimeStamp);
4264: function VarSQLTimeStampCreate3: Variant;
4265: function VarSQLTimeStampCreate2(const AValue: string): Variant;
4266: function VarSQLTimeStampCreate1(const AValue: TDateTime): Variant;
4267: function VarSQLTimeStampCreate(const ASQLTimeStamp: TSQLTimeStamp): Variant;
4268: function VarSQLTimeStamp: TVarType
4269: function VarIsSQLTimeStamp(const aValue: Variant): Boolean;
4270: function LocalToUTC(var TZInfo: TTimezone; var Value: TSQLTimeStamp): TSQLTimeStamp //beta
4271: function UTCToLocal(var TZInfo: TTimezone; var Value: TSQLTimeStamp): TSQLTimeStamp //beta
4272: function VarToSQLTimeStamp(const aValue: Variant): TSQLTimeStamp

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4273: Function SQLTimeStampToStr( const Format : string; DateTime : TSQLTimeStamp) : string
4274: Function SQLDayOfWeek( const DateTime : TSQLTimeStamp) : integer
4275: Function DateTimeToSQLTimeStamp( const DateTime : TDateTime) : TSQLTimeStamp
4276: Function SQLTimeStampToDateTime( const DateTime : TSQLTimeStamp) : TDateTime
4277: Function TryStrToSQLTimeStamp( const S : string; var TimeStamp : TSQLTimeStamp) : Boolean
4278: Function StrToSQLTimeStamp( const S : string) : TSQLTimeStamp
4279: Procedure CheckSqlTimeStamp( const ASQLTimeStamp : TSQLTimeStamp)
4280: Function ExtractFieldName( const Fields : string; var Pos : Integer) : string;
4281: Function ExtractFieldName( const Fields : WideString; var Pos : Integer) : WideString;
4282: Procedure RegisterFields( const FieldClasses : array of TFieldClass)
4283: Procedure DatabaseError( const Message : WideString; Component : TComponent)
4284: Procedure DatabaseErrorFmt(const Message:WideString; const Args:array of const;Component:TComponent)
4285: Procedure DisposeMem( var Buffer, Size : Integer)
4286: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer) : Boolean
4287: Function GetFieldProperty(DataSet:TDataSet; Control:TComponent; const FieldName: WideString): TField
4288: Function VarTypeToDataType( VarType : Integer) : TFieldType
4289: *****unit JvStrings;*****
4290: {template functions}
4291: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4292: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4293: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4294: function RemoveMasterBlocks(const SourceStr: string): string;
4295: function RemoveFields(const SourceStr: string): string;
4296: {http functions}
4297: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4298: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4299: {set functions}
4300: procedure SplitSet(AText: string; AList: TStringList);
4301: function JoinSet(AList: TStringList): string;
4302: function FirstOfSet(const AText: string): string;
4303: function LastOfSet(const AText: string): string;
4304: function CountOfSet(const AText: string): Integer;
4305: function SetRotateRight(const AText: string): string;
4306: function SetRotateLeft(const AText: string): string;
4307: function SetPick(const AText: string; AIndex: Integer): string;
4308: function SetSort(const AText: string): string;
4309: function SetUnion(const Set1, Set2: string): string;
4310: function SetIntersect(const Set1, Set2: string): string;
4311: function SetExclude(const Set1, Set2: string): string;
4312: {replace any <,> etc by &lt; &gt;}
4313: function XMLSafe(const AText: string): string;
4314: {simple hash, Result can be used in Encrypt}
4315: function Hash(const AText: string): Integer;
4316: { Base64 encode and decode a string }
4317: function B64Encode(const S: AnsiString): AnsiString;
4318: function B64Decode(const S: AnsiString): AnsiString;
4319: {Basic encryption from a Borland Example}
4320: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4321: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4322: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4323: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4324: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4325: procedure CSVToTags(Src, Dst: TStringList);
4326: // converts a csv list to a tagged string list
4327: procedure TagsToCSV(Src, Dst: TStringList);
4328: // converts a tagged string list to a csv list
4329: // only fieldnames from the first record are scanned ib the other records
4330: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4331: {selects akey=avalue from Src and returns recordset in Dst}
4332: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4333: {filters Src for akey=avalue}
4334: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4335: {orders a tagged Src list by akey}
4336: function PosStr(const FindString, SourceString: string;
4337:   StartPos: Integer = 1): Integer;
4338: { PosStr searches the first occurrence of a substring FindString in a string
4339:   given by SourceString with case sensitivity (upper and lower case characters
4340:   are differed). This function returns the index value of the first character
4341:   of a specified substring from which it occurs in a given string starting with
4342:   StartPos character index. If a specified substring is not found Q_PosStr
4343:   returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4344: function PosStrLast(const FindString, SourceString: string): Integer;
4345: {finds the last occurrence}
4346: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4347: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;
4348: { PosText searches the first occurrence of a substring FindString in a string
4349:   given by SourceString without case sensitivity (upper and lower case characters are not differed). This
   function returns the index value of the first character of a specified substring from which it occurs in a
   given string starting with Start
4350: function PosTextLast(const FindString, SourceString: string): Integer;
4351: {finds the last occurrence}
4352: function NameValuesToXML(const AText: string): string;
4353: {IFDEF MSWINDOWS}
4354: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4355: {SENDIF MSWINDOWS}
4356: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4357: procedure RecurseDirFiles(const ADir: string; var AFileList: TStringList);
4358: procedure RecurseDirProgs(const ADir: string; var AFileList: TStringList);
4359: procedure SaveString(const AFile, AText: string);

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4360: Procedure SaveStringasFile( const AFile, AText : string)
4361: function LoadStringJ(const AFile: string): string;
4362: Function LoadStringofFile( const AFile : string) : string
4363: Procedure SaveStringtoFile( const AFile, AText : string)
4364: Function LoadStringfromFile( const AFile : string) : string
4365: function HexToColor(const AText: string): TColor;
4366: function UppercaseHTMLTags(const AText: string): string;
4367: function LowercaseHTMLTags(const AText: string): string;
4368: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4369: function RelativePath(const ASrc, ADst: string): string;
4370: function GetToken(var Start: Integer; const SourceText: string): string;
4371: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4372: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4373: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4374: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4375: // parses the beginning of an attribute: space + alpha character
4376: function ParseAttribute(var Start: Integer; const SourceText: string; var AName, AValue: string): Boolean;
4377: //parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4378: procedure ParseAttributes(const SourceText: string; Attributes: TStringList);
4379: // parses all name=value attributes to the attributes TStringList
4380: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4381: // checks if a name="value" pair exists and returns any value
4382: function GetStrValue(const AText, AName, ADefault: string): string;
4383: // retrieves string value from a line like:
4384: // name="jan verhoeven" email="jan1 dott verhoeven att wxs dott nl"
4385: // returns ADefault when not found
4386: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4387: // same for a color
4388: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4389: // same for an Integer
4390: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4391: // same for a float
4392: function GetBoolValue(const AText, AName: string): Boolean;
4393: // same for Boolean but without default
4394: function GetValue(const AText, AName: string): string;
4395: //retrieves string value from a line like: name="jan verhoeven" email="jan1 verhoeven att wxs dott nl"
4396: procedure SetValue(var AText: string; const AName, AValue: string);
4397: // sets a string value in a line
4398: procedure DeleteValue(var AText: string; const AName: string);
4399: // deletes a AName="value" pair from AText
4400: procedure GetNames(AText: string; AList: TStringList);
4401: // get a list of names from a string with name="value" pairs
4402: function GetHTMLColor(AColor: TColor): string;
4403: // converts a color value to the HTML hex value
4404: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4405: // finds a string backward case sensitive
4406: function BackPosText(Start: Integer; const FindString, SourceString: string): Integer;
4407: // finds a string backward case insensitive
4408: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4409:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4410: // finds a text range, e.g. <TD>...</TD> case sensitive
4411: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4412:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4413: // finds a text range, e.g. <TD>...</td> case insensitive
4414: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4415:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4416: // finds a text range backward, e.g. <TD>...</TD> case sensitive
4417: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4418:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4419: // finds a text range backward, e.g. <TD>...</td> case insensitive
4420: function PosTag(Start: Integer; SourceString: string; var RangeBegin: Integer;
4421:   var RangeEnd: Integer): Boolean;
4422: // finds a HTML or XML tag: <...>
4423: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4424:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4425: // finds the innertext between opening and closing tags
4426: function Easter(NYear: Integer): TDateTime;
4427: // returns the easter date of a year.
4428: function GetWeekNumber(Today: TDateTime): string;
4429: //gets a datecode. Returns year and weeknumber in format: YYWW
4430: function ParseNumber(const S: string): Integer;
4431: // parse number returns the last position, starting from 1
4432: function ParseDate(const S: string): Integer;
4433: // parse a SQL style data string from positions 1,
4434: // starts and ends with #
4435:
4436: *****unit JvJCLUtils;*****
4437:
4438: function VarIsInt(Value: Variant): Boolean;
4439: // VarIsInt returns VarIsOrdinal-[varBoolean]
4440: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4441: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4442: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4443: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4444: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4445: function GetWordOnPos(const S: string; const P: Integer): string;
4446: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4447: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4448: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;

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4449: { GetWordOnPosEx working like GetWordOnPos function, but
4450:   also returns Word position in iBeg, iEnd variables }
4451: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4452: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4453: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4454: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4455: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4456: { GetEndPosCaret returns the caret position of the last char. For the position
4457:   after the last char of Text you must add 1 to the returned X value. }
4458: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4459: { GetEndPosCaret returns the caret position of the last char. For the position
4460:   after the last char of Text you must add 1 to the returned X value. }
4461: { SubStrBySeparator returns substring from string, S, separated with Separator string }
4462: function SubStrBySeparator(const S: string; const Index: Integer; const
  Separator: string; StartIndex: Integer = 1): string;
4463: function SubStrBySeparatorW(const S: WideString; const Index: Integer; const
  Separator: WideString; StartIndex: Integer = 1): WideString;
4464: { SubStrEnd same to previous function but Index numerated from the end of string }
4465: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4466: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4467: function SubWord(P: PChar; var P2: PChar): string;
4468: function CurrencyByWord(Value: Currency): string;
4469: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4470: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4471: { GetXYByPos is same as GetLineByPos, but returns X position in line as well }
4472: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4473: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4474: { ReplaceString searches for all substrings, OldPattern,
4475:   in a string, S, and replaces them with NewPattern }
4476: function ReplaceString(S: string; const OldPattern, NewPattern: string; StartIndex: Integer = 1): string;
4477: function ReplaceStringW(S: WideString; const OldPattern, NewPattern:
  WideString; StartIndex: Integer = 1): WideString;
4478: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4479: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4480: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
4481: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4482:
4483: { Next 4 function for russian chars transliterating.
4484:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4485: procedure Dos2Win(var S: AnsiString);
4486: procedure Win2Dos(var S: AnsiString);
4487: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4488: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4489: function Win2Koi(const S: AnsiString): AnsiString;
4490: { FillString fills the string Buffer with Count Chars }
4491: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4492: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4493: { MoveString copies Count Chars from Source to Dest }
4494: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
  inline; {$ENDIF SUPPORTS_INLINE} overload;
4495: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
  DstStartIdx: Integer; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4497: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4498: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4499: { MoveWideChar copies Count WideChars from Source to Dest }
4500: procedure MoveWideChar(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
  inline; {$ENDIF SUPPORTS_INLINE}
4501: { FillNativeChar fills Buffer with Count NativeChars }
4502: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
  SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4503: { MoveWideChar copies Count WideChars from Source to Dest }
4504: procedure MoveNativeChar(const Source: string; var Dest: string; Count: Integer); // D2009 internal error {$IFDEF
  SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4505: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4506: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4507: { Spaces returns string consists on N space chars }
4508: function Spaces(const N: Integer): string;
4509: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4510: function AddSpaces(const S: string; const N: Integer): string;
4511: function SpacesW(const N: Integer): WideString;
4512: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4513: { function LastDateRUS for russian users only }
4514: { returns date relative to current date: 'âââ âîý îâçââ' }
4515: function LastDateRUS(const Dat: TDateTime): string;
4516: { CurrencyToStr format Currency, Cur, using ffCurrency float format }
4517: function CurrencyToStr(const Cur: Currency): string;
4518: { HasChar returns True, if Char, Ch, contains in string, S }
4519: function HasChar(const Ch: Char; const S: string): Boolean;
4520: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$IFDEF SUPPORTS_INLINE}
4521: function HasAnyChar(const Chars: string; const S: string): Boolean;
4522: {$IFDEF COMPILER12_UP}
4523: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$IFDEF SUPPORTS_INLINE}
4524: {$IFDEF ~COMPILER12_UP}
4525: function CharInSetW(const Ch: WideChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF
  SUPPORTS_INLINE}
4526: function CountOfChar(const Ch: Char; const S: string): Integer;
4527: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}

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4528: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4529: function StrLICompW2(S1, S2: PWideChar; MaxLen: Integer): Integer;
4530: function StrPosW(S, SubStr: PWideChar): PWideChar;
4531: function StrLenW(S: PWideChar): Integer;
4532: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4533: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4534: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4535: TPixelFormat, '( pfDevice, pf1bit, pf4bit, pf8bit, pf24bit )
4536: TMappingMethod, '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTripel, mmGrayscale )
4537: function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4538: function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4539: procedure SetBitmapPixelFormat( Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod)
4540: function BitmapToMemoryStream(Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod): TMemoryStream;
4541: procedure GrayscaleBitmap( Bitmap : TBitmap)
4542: function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4543: procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer)
4544: function ScreenPixelFormat : TPixelFormat
4545: function ScreenColorCount : Integer
4546: procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic)
4547: function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean ) : TPoint
4548: // SIRegister_TJvGradient(CL);
4549:
4550: {***** file routines}
4551: procedure SetDelimitedText(List: TStrings; const Text: string; Delimiter: Char);
4552: const
4553:   {$IFDEF MSWINDOWS}
4554:   DefaultCaseSensitivity = False;
4555:   {$ENDIF MSWINDOWS}
4556:   {$IFDEF UNIX}
4557:   DefaultCaseSensitivity = True;
4558:   {$ENDIF UNIX}
4559: { GenTempFileName returns temporary file name on
4560: drive, there FileName is placed }
4561: function GenTempFileName(Filename: string): string;
4562: { GenTempFileNameExt same to previous function, but
4563: returning filename has given extension, FileExt }
4564: function GenTempFileNameExt(Filename: string; const FileExt: string): string;
4565: { ClearDir clears folder Dir }
4566: function ClearDir(const Dir: string): Boolean;
4567: { DeleteDir clears and than delete folder Dir }
4568: function DeleteDir(const Dir: string): Boolean;
4569: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4570: function FileEquMask(Filename, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4571: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4572: Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4573: function FileEquMasks(Filename, Masks: TFileName;
4574: CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4575: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4576: {$IFDEF MSWINDOWS}
4577: { LZFileExpand expand file, FileSource,
4578: into FileDest. Given file must be compressed, using MS Compress program }
4579: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4580: {$ENDIF MSWINDOWS}
4581: { FileGetInfo fills SearchRec record for specified file attributes}
4582: function FileGetInfo(Filename: TFileName; var SearchRec: TSearchRec): Boolean;
4583: { HasSubFolder returns True, if folder APath contains other folders }
4584: function HasSubFolder(APath: TFileName): Boolean;
4585: { IsEmptyFolder returns True, if there are no files or
4586: folders in given folder, APath}
4587: function IsEmptyFolder(APath: TFileName): Boolean;
4588: { AddSlash returns string with added slash Char to Dir parameter, if needed }
4589: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4590: { AddPath returns FileName with Path, if FileName not contain any path }
4591: function AddPath(const FileName, Path: TFileName): TFileName;
4592: function AddPaths(const PathList, Path: string): string;
4593: function ParentPath(const Path: TFileName): TFileName;
4594: function FindInPath(const FileName, PathList: string): TFileName;
4595: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4596: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4597: { HasParam returns True, if program running with specified parameter, Param }
4598: function HasParam(const Param: string): Boolean;
4599: function HasSwitch(const Param: string): Boolean;
4600: function Switch(const Param: string): string;
4601: { ExePath returns ExtractFilePath(ParamStr(0)) }
4602: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4603: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4604: //function FileTimeToDateTime(const FT: TFileTime): TDateTime;
4605: procedure FileTimeToDosDateTimeDWord(const FT: TFileTime; out Dft: DWORD);
4606: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4607: {*** Graphic routines }
4608: { IsTTFontSelected returns True, if True Type font is selected in specified device context }
4609: function IsTTFontSelected(const DC: HDC): Boolean;
4610: function KeyPressed(VK: Integer): Boolean;
4611: function IsKeyPressed: boolean; //true if key on memo2 (shell output) is pressed
4612: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4613: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4614: {*** Color routines }
4615: procedure RGBtoHSV(R, G, B: Integer; var H, S, V: Integer);

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4616: function RGBToBGR(Value: Cardinal): Cardinal;
4617: //function ColorToPrettyName(Value: TColor): string;
4618: //function PrettyNameToColor(const Value: string): TColor;
4619: {**** other routines }
4620: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4621: function IntPower(Base, Exponent: Integer): Integer;
4622: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4623: function StrToBool(const S: string): Boolean;
4624: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4625: function VarToInt(V: Variant): Integer;
4626: function VarToFloat(V: Variant): Double;
4627: { following functions are not documented because they not work properly sometimes, so do not use them }
4628: // (rom) ReplaceStrings1, GetSubStr removed
4629: function GetLongFileName(const FileName: string): string;
4630: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4631: function GetParameter: string;
4632: function GetComputerID: string;
4633: function GetComputerName: string;
4634: {**** string routines }
4635: { ReplaceAllStrings searches for all substrings, Words,
4636:   in a string, S, and replaces them with Phrases with the same Index. }
4637: function ReplaceAllStrings(const S: string; Words, Phrases: TStrings): string;
4638: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4639:   in the list, Words, and if founds, replaces this Word with string from another list, Phrases, with the
   same Index, and then update NewSelStart variable }
4640: function ReplaceStrings(const S: string; PosBeg, Len: Integer; Words, Phrases: TStrings; var NewSelStart: Integer): string;
4641: { CountOfLines calculates the lines count in a string, S,
4642:   each line must be separated from another with CrLf sequence }
4643: function CountOfLines(const S: string): Integer;
4644: { DeleteLines deletes all lines from strings which in the words, words.
4645:   The word of will be deleted from strings. }
4646: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4647: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4648:   Lines contained only spaces also deletes. }
4649: procedure DeleteEmptyLines(Ss: TStrings);
4650: { SQLAddWhere addes or modifies existing where-statement, where,
4651:   to the strings, SQL. Note: If strings SQL already contains where-statement,
4652:   it must be started on the begining of any line }
4653: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4654: {**** files routines - }
4655: {$IFDEF MSWINDOWS}
4656: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4657:   Resource can be compressed using MS Compress program }
4658: function ResSaveToFile(const Typ, Name: string; const Compressed: Boolean; const FileName: string): Boolean;
4659: function ResSaveToFileEx(Instance: HINST; Typ, Name: PChar; const Compressed: Boolean; const FileName: string):
   Boolean;
4660: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4661: {$ENDIF MSWINDOWS}
4662: { IniReadSection read section, Section, from ini-file,
4663:   IniFileName, into strings, Ss. This function reads ALL strings from specified section.
4664:   Note: TIniFile.ReadSection function reads only strings with '=' symbol. }
4665: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4666: { LoadTextFile load text file, FileName, into string }
4667: function LoadTextFile(const FileName: TFileName): string;
4668: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4669: { ReadFolder reads files list from disk folder, Folder, that are equal to mask, Mask, into strings, FileList }
4670: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
4671: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4672: { RTextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4673: procedure RTextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4674: { RTextOutEx same with RTextOut function, but can calculate needed height for correct output }
4675: function RTextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
4676: { RTextCalcHeight calculate needed height for
4677:   correct output, using RTextOut or RTextOutEx functions }
4678: function RTextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4679: { Cinema draws some visual effect }
4680: procedure Cinema(Canvas: TCanvas; rD {Source}, rD {Dest}: TRect);
4681: { Roughed fills rect with special 3D pattern }
4682: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4683: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4684: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4685: { TextWidth calculate text width for writing using standard desktop font }
4686: function TextWidth(const AStr: string): Integer;
4687: { TextHeight calculate text height for writing using standard desktop font }
4688: function TextHeight(const AStr: string): Integer;
4689: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4690: procedure Error(const Msg: string);
4691: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4692: {example Text parameter: 'Item 1<b>bold</b><i>italic ITALIC <c>Red>red<c>Green>green<c>blue>blue</i>' }
4693: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4694: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4695: function ItemHtPlain(const Text: string): string;
4696: { ClearList - clears list of TObject }
4697: procedure ClearList(List: TList);
4698: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);

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4702: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
4703: { RTTI support }
4704: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4705: function GetPropStr(Obj: TObject; const PropName: string): string;
4706: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4707: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4708: procedure PrepareIniSection(Ss: TStrings);
4709: { following functions are not documented because they are don't work properly, so don't use them }
4710: // (rom) from JvBandWindows to make it obsolete
4711: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4712: // (rom) from JvBandUtils to make it obsolete
4713: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4714: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4715: function CreateIconFromClipboard: TIcon;
4716: { begin JvIconClipboardUtils } { Icon clipboard routines }
4717: function CF_ICON: Word;
4718: procedure AssignClipboardIcon(Icon: TIcon);
4719: { Real-size icons support routines (32-bit only) }
4720: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4721: function CreateRealSizeIcon(Icon: TIcon): HICON;
4722: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4723: {end JvIconClipboardUtils }
4724: function CreateScreenCompatibleDC: HDC;
4725: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF
SUPPORTS_INLINE} inline; {$ENDIF}
4726: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4727: { begin JvRLE } // (rom) changed API for inclusion in JCL
4728: procedure RleCompressTo(InStream, OutStream: TStream);
4729: procedure RleDecompressTo(InStream, OutStream: TStream);
4730: procedure RleCompress(Stream: TStream);
4731: procedure RleDecompress(Stream: TStream);
4732: { end JvRLE } { begin JvDateUtil }
4733: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4734: function IsLeapYear(AYear: Integer): Boolean;
4735: function DaysInAMonth(const AYear, AMonth: Word): Word;
4736: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4737: function FirstDayOfPrevMonth: TDateTime;
4738: function LastDayOfPrevMonth: TDateTime;
4739: function FirstDayOfNextMonth: TDateTime;
4740: function ExtractDay(ADate: TDateTime): Word;
4741: function ExtractMonth(ADate: TDateTime): Word;
4742: function ExtractYear(ADate: TDateTime): Word;
4743: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4744: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$ENDIF SUPPORTS_INLINE}
4745: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4746: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4747: function ValidDate(ADate: TDateTime): Boolean;
4748: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4749: function MonthsBetween(Date1, Date2: TDateTime): Double;
4750: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4751: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4752: function DaysBetween(Date1, Date2: TDateTime): Longint;
4753: { The same as previous but if Date2 < Date1 result = 0 }
4754: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4755: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4756: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4757: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4758: function IncMsec(ATime: TDateTime; Delta: Integer): TDateTime;
4759: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4760: { String to date conversions }
4761: function GetDateOrder(const DateFormat: string): TDateOrder;
4762: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4763: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4764: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4765: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4766: //function DefDateFormat(AFourDigitYear: Boolean): string;
4767: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4768: function FormatLongDate(Value: TDateTime): string;
4769: function FormatLongDateTime(Value: TDateTime): string;
4770: { end JvDateUtil }
4771: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4772: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4773: { begin JvStrUtils } { ** Common string handling routines ** }
4774: {$IFDEF UNIX}
4775: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
const ToCode, FromCode: AnsiString): Boolean;
4776: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4777: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4778: function OemStrToAnsi(const S: AnsiString): AnsiString;
4779: function AnsiStrToOem(const S: AnsiString): AnsiString;
4780: function AnsiStrToOem(const S: AnsiString): AnsiString;
4781: {$ENDIF UNIX}
4782: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4783: { StrToOem translates a string from the Windows character set into the OEM character set. }
4784: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4785: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4786: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4787: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4788: function ReplaceStr(const S, Srch, Replace: string): string;
4789: { Returns string with every occurrence of Srch string replaced with Replace string. }

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4790: function DelSpace(const S: string): string;
4791: { DelSpace return a string with all white spaces removed. }
4792: function DelChars(const S: string; Chr: Char): string;
4793: { DelChars return a string with all Chr characters removed. }
4794: function DelBSpace(const S: string): string;
4795: { DelBSpace trims leading spaces from the given string. }
4796: function DelESpace(const S: string): string;
4797: { DelESpace trims trailing spaces from the given string. }
4798: function DelRSpace(const S: string): string;
4799: { DelRSpace trims leading and trailing spaces from the given string. }
4800: function DelSpace1(const S: string): string;
4801: { DelSpace1 return a string with all non-single white spaces removed. }
4802: function Tab2Space(const S: string; Numb: Byte): string;
4803: { Tab2Space converts any tabulation character in the given string to the
4804:   Numb spaces characters. }
4805: function NPos(const C: string; S: string; N: Integer): Integer;
4806: { NPos searches for a N-th position of substring C in a given string. }
4807: function MakeStr(C: Char; N: Integer): string; overload;
4808: {$IFDEF COMPILER12_UP}
4809: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4810: {$ENDIF !COMPILER12_UP}
4811: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4812: { MakeStr return a string of length N filled with character C. }
4813: function AddChar(C: Char; const S: string; N: Integer): string;
4814: { AddChar return a string left-padded to length N with characters C. }
4815: function AddCharR(C: Char; const S: string; N: Integer): string;
4816: { AddCharR return a string right-padded to length N with characters C. }
4817: function LeftStr(const S: string; N: Integer): string;
4818: { LeftStr return a string right-padded to length N with blanks. }
4819: function RightStr(const S: string; N: Integer): string;
4820: { RightStr return a string left-padded to length N with blanks. }
4821: function CenterStr(const S: string; Len: Integer): string;
4822: { CenterStr centers the characters in the string based upon the Len specified. }
4823: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4824: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4825:   -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4826: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4827: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4828: function Copy2Symb(const S: string; Symb: Char): string;
4829: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4830: function Copy2SymbDel(var S: string; Symb: Char): string;
4831: { Copy2SymbDel returns a substring of a string S from beginning to first
4832:   character Symb and removes this substring from S. }
4833: function Copy2Space(const S: string): string;
4834: { Copy2Symb returns a substring of a string S from beginning to first white space. }
4835: function Copy2SpaceDel(var S: string): string;
4836: { Copy2SpaceDel returns a substring of a string S from beginning to first
4837:   white space and removes this substring from S. }
4838: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4839: { Returns string, with the first letter of each word in uppercase,
4840:   all other letters in lowercase. Words are delimited by WordDelims. }
4841: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4842: { WordCount given a set of word delimiters, returns number of words in S. }
4843: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4844: { Given a set of word delimiters, returns start position of N'th word in S. }
4845: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4846: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4847: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4848: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4849:   delimiters, return the N'th word in S. }
4850: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;
4851: { ExtractSubstr given a set of word delimiters, returns the substring from S,
4852:   that started from position Pos. }
4853: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4854: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4855: function QuotedString(const S: string; Quote: Char): string;
4856: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4857: function ExtractQuotedString(const S: string; Quote: Char): string;
4858: { ExtractQuotedString removes the Quote characters from the beginning and
4859:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character. }
4860: function FindPart(const HelpWilds, InputStr: string): Integer;
4861: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4862: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4863: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4864: function XorString(const Key, Src: ShortString): ShortString;
4865: function XorEncode(const Key, Source: string): string;
4866: function XorDecode(const Key, Source: string): string;
4867: { ** Command line routines ** }
4868: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4869: { ** Numeric string handling routines ** }
4870: function Numb2USA(const S: string): string;
4871: { Numb2USA converts numeric string S to USA-format. }
4872: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4873: { Dec2Hex converts the given value to a hexadecimal string representation
4874:   with the minimum number of digits (A) specified. }
4875: function Hex2Dec(const S: string): Longint;
4876: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4877: function Dec2Numb(N: Int64; A, B: Byte): string;
4878: { Dec2Numb converts the given value to a string representation with the

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4879:   base equal to B and with the minimum number of digits (A) specified. }
4880: function Numb2Dec(S: string; B: Byte): Int64;
4881: { Numb2Dec converts the given B-based numeric string to the corresponding
4882:   integer value. }
4883: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4884: { IntToBin converts the given value to a binary string representation
4885:   with the minimum number of digits specified. }
4886: function IntToRoman(Value: Longint): string;
4887: { IntToRoman converts the given value to a roman numeric string representation. }
4888: function RomanToInt(const S: string): Longint;
4889: { RomanToInt converts the given string to an integer value. If the string
4890:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4891: function FindNotBlankCharPos(const S: string): Integer;
4892: function FindNotBlankCharPosW(const S: WideString): Integer;
4893: function AnsiChangeCase(const S: string): string;
4894: function WideChangeCase(const S: string): string;
4895: function StartsText(const SubStr, S: string): Boolean;
4896: function EndsText(const SubStr, S: string): Boolean;
4897: function DegquotedStr(const S: string; QuoteChar: Char = ''' ): string;
4898: function AnsiDegquotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4899: {end JvStrUtils}
4900: {$IFDEF UNIX}
4901: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4902: {$ENDIF UNIX}
4903: { begin JvFileUtil }
4904: function FileDateTime(const FileName: string): TDateTime;
4905: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4906: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4907: function NormalDir(const DirName: string): string;
4908: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4909: function ValidFileName(const FileName: string): Boolean;
4910: {$IFDEF MSWINDOWS}
4911: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4912: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4913: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4914: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4915: {$ENDIF MSWINDOWS}
4916: function GetWindowsDir: string;
4917: function GetSystemDir: string;
4918: function ShortToLongFileName(const ShortName: string): string;
4919: function LongToShortFileName(const LongName: string): string;
4920: function ShortToLongPath(const ShortName: string): string;
4921: function LongToShortPath(const LongName: string): string;
4922: {$IFDEF MSWINDOWS}
4923: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4924: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4925: {$ENDIF MSWINDOWS}
4926: { end JvFileUtil }
4927: // Works like PtInRect but includes all edges in comparision
4928: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
4929: // Works like PtInRect but excludes all edges from comparision
4930: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
4931: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
4932: function IsFourDigitYear: Boolean;
4933: { moved from JvJCLUtils }
4934: //Open an object with the shell (url or something like that)
4935: function OpenObject(const Value: string): Boolean; overload;
4936: function OpenObject(Value: PChar): Boolean; overload;
4937: {$IFDEF MSWINDOWS}
4938: //Raise the last Exception
4939: procedure RaiseLastWin32; overload;
4940: procedure RaiseLastWin32(const Text: string); overload;
4941: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
4942: //significant 32 bits of a file's binary version number. Typically, this includes the major and minor
4943: //version placed together in one 32-bit Integer. I
4944: function GetFileVersion(const AFileName: string): Cardinal;
4945: {$EXTERNALSYM GetFileVersion}
4946: //Get version of Shell.dll
4947: function GetShellVersion: Cardinal;
4948: {$EXTERNALSYM GetShellVersion}
4949: // CD functions on HW
4950: procedure OpenCdDrive;
4951: procedure CloseCdDrive;
4952: // returns True if Drive is accessible
4953: function DiskInDrive(Drive: Char): Boolean;
4954: {$ENDIF MSWINDOWS}
4955: //Same as linux function ;)
4956: procedure PError(const Text: string);
4957: // execute a program without waiting
4958: procedure Exec(const FileName, Parameters, Directory: string);
4959: // execute a program and wait for it to finish
4960: function ExecuteAndWait(CmdLine: string; const WorkingDirectory: string; Visibility: Integer = SW_SHOW): Int;
4961: // returns True if this is the first instance of the program that is running
4962: function FirstInstance(const ATitle: string): Boolean;
4963: // restores a window based on it's classname and Caption. Either can be left empty
4964: // to widen the search
4965: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
4966: // manipulate the traybar and start button
4967: procedure HideTraybar;

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4966: procedure ShowTraybar;
4967: procedure ShowStartButton(Visible: Boolean = True);
4968: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
4969: procedure MonitorOn;
4970: procedure MonitorOff;
4971: procedure LowPower;
4972: // send a key to the window named AppName
4973: function SendKey(const AppName: string; Key: Char): Boolean;
4974: {$IFDEF MSWINDOWS}
4975: // returns a list of all win currently visible, the Objects property is filled with their window handle
4976: procedure GetVisibleWindows(List: TStringList);
4977: // associates an extension to a specific program
4978: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
4979: procedure AddToRecentDocs(const FileName: string);
4980: function GetRecentDocs: TStringList;
4981: {$ENDIF MSWINDOWS}
4982: function CharIsMoney(const Ch: Char): Boolean;
4983: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
4984: function IntToExtended(I: Integer): Extended;
4985: { GetChangedText works out the new text given the current cursor pos & the key pressed
4986:   It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
4987: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
4988: function MakeYear4Digit(Year, Pivot: Integer): Integer;
4989: //function StrIsInteger(const S: string): Boolean;
4990: function StrIsFloatMoney(const Ps: string): Boolean;
4991: function StrIsDateTime(const Ps: string): Boolean;
4992: function PreformatDateString(Ps: string): string;
4993: function BooleanToInteger(const B: Boolean): Integer;
4994: function StringToBoolean(const Ps: string): Boolean;
4995: function SafeStrToDateTime(const Ps: string): TDateTime;
4996: function SafeStrToDate(const Ps: string): TDateTime;
4997: function SafeStrToTime(const Ps: string): TDateTime;
4998: function StrDelete(const psSub, psMain: string): string;
4999: { returns the fractional value of pcValue }
5000: function TimeOnly(pcValue: TDateTime): TTime;
5001: { returns the integral value of pcValue }
5002: function DateOnly(pcValue: TDateTime): TDate;
5003: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5004: const { TDateTime value used to signify Null value }
5005:   NullEquivalentDate: TDateTime = 0.0;
5006: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5007: // Replacement for Win32Check to avoid platform specific warnings in D6
5008: function OSCheck(RetVal: Boolean): Boolean;
5009: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5010:   Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5011:   not be forced to use FileCtrl unnecessarily }
5012: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5013: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5014: { MinimizeString truncates long string, S, and appends'...'symbols,if Length of S is more than MaxLen }
5015: function MinimizeString(const S: string; const MaxLen: Integer): string;
5016: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=
SW_SHOWDEFAULT);
5017: { GetDLLVersion loads DLLName, gets a pointer to DLLVersion function and calls it, returning major and
minor version values from the function. Returns False if DLL not loaded or if GetDLLVersion couldn't be
found.}
5018: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5019: {$ENDIF MSWINDOWS}
5020: procedure ResourceNotFound(ResID: PChar);
5021: function EmptyRect: TRect;
5022: function RectWidth(R: TRect): Integer;
5023: function RectHeight(R: TRect): Integer;
5024: function CompareRect(const R1, R2: TRect): Boolean;
5025: procedure RectNormalize(var R: TRect);
5026: function RectIsSquare(const R: TRect): Boolean;
5027: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5028: //If AMaxSize = -1 ,then auto calc Square's max size
5029: {$IFDEF MSWINDOWS}
5030: procedure FreeUnusedOle;
5031: function GetWindowsVersion: string;
5032: function LoadDLL(const LibName: string): THandle;
5033: function RegisterServer(const ModuleName: string): Boolean;
5034: function UnregisterServer(const ModuleName: string): Boolean;
5035: {$ENDIF MSWINDOWS}
5036: { String routines }
5037: function GetEnvVar(const VarName: string): string;
5038: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5039: function StringToPChar(var S: string): PChar;
5040: function StrPAlloc(const S: string): PChar;
5041: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5042: function DropT(const S: string): string;
5043: { Memory routines }
5044: function AllocMemo(Size: Longint): Pointer;
5045: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5046: procedure FreeMemo(var fpBlock: Pointer);
5047: function GetMemoSize(fpBlock: Pointer): Longint;
5048: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5049: { Manipulate huge pointers routines }
5050: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5051: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);

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5052: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5053: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5054: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5055: function WindowClassName(Wnd: THandle): string;
5056: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5057: procedure ActivateWindow(Wnd: THandle);
5058: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5059: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5060: { SetWindowTop put window to top without recreating window }
5061: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5062: procedure CenterWindow(Wnd: THandle);
5063: function MakeVariant(const Values: array of Variant): Variant;
5064: { Convert dialog units to pixels and backwards }
5065: {$IFDEF MSWINDOWS}
5066: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5067: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5068: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5069: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5070: {$ENDIF MSWINDOWS}
5071: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5072: {$IFDEF BCB}
5073: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5074: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5075: {$ELSE}
5076: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5077: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5078: {$ENDIF BCB}
5079: {$IFDEF MSWINDOWS}
5080: { BrowseForFolderNative displays Browse For Folder dialog }
5081: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5082: {$ENDIF MSWINDOWS}
5083: procedure AntiAlias(Clip: TBitmap);
5084: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5085: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5086:   ABitmap: TBitmap; const SourceRect: TRect);
5087: function IsTrueType(const FontName: string): Boolean;
5088: // Removes all non-numeric characters from AValue and returns the resulting string
5089: function TextToValText(const AValue: string): string;
5090: function ExecRegExpr(const ARegExpr, AInputStr: RegExprString): boolean
5091: Procedure SplitRegExpr(const ARegExpr, AInputStr: RegExprString; APieces: TStrings)
5092: Function ReplaceRegExpr(const ARegExpr, AInputStr,
  AReplaceStr: RegExprString; AUseSubstitution: bool): RegExprString;
5093: Function QuoteRegExprMetaChars(const AStr: RegExprString): RegExprString
5094: Function RegExprSubExpressions(const ARegExpr: string; ASubExprs: TStrings; AExtendedSyntax: boolean):
5095:
5096: *****unit uPSI_JvTFUtils;
5097: Function JExtractYear( ADate: TDateTime): Word
5098: Function JExtractMonth( ADate: TDateTime): Word
5099: Function JExtractDay( ADate: TDateTime): Word
5100: Function ExtractHours( ATime: TDateTime): Word
5101: Function ExtractMins( ATime: TDateTime): Word
5102: Function ExtractSecs( ATime: TDateTime): Word
5103: Function ExtractMSecs( ATime: TDateTime): Word
5104: Function FirstOfMonth( ADate: TDateTime): TDateTime
5105: Function GetDayOfNthDOW( Year, Month, DOW, N: Word): Word
5106: Function GetWeeksInMonth( Year, Month: Word; StartOfWeek: Integer): Word
5107: Procedure IncBorlDOW( var BorlDOW: Integer; N: Integer)
5108: Procedure IncDOW( var DOW: TTFDayOfWeek; N: Integer)
5109: Procedure IncDays( var ADate: TDateTime; N: Integer)
5110: Procedure IncWeeks( var ADate: TDateTime; N: Integer)
5111: Procedure IncMonths( var ADate: TDateTime; N: Integer)
5112: Procedure IncYears( var ADate: TDateTime; N: Integer)
5113: Function EndOfMonth( ADate: TDateTime): TDateTime
5114: Function IsFirstOfMonth( ADate: TDateTime): Boolean
5115: Function IsEndOfMonth( ADate: TDateTime): Boolean
5116: Procedure EnsureMonth( Month: Word)
5117: Procedure EnsureDOW( DOW: Word)
5118: Function EqualDates( D1, D2: TDateTime): Boolean
5119: Function Lesser( N1, N2: Integer): Integer
5120: Function Greater( N1, N2: Integer): Integer
5121: Function GetDivLength( TotalLength, DivCount, DivNum: Integer): Integer
5122: Function GetDivNum( TotalLength, DivCount, X: Integer): Integer
5123: Function GetDivStart( TotalLength, DivCount, DivNum: Integer): Integer
5124: Function DOWToBorl( ADOW: TTFDayOfWeek): Integer
5125: Function BorlToDOW( BorlDOW: Integer): TTFDayOfWeek
5126: Function DateToDOW( ADate: TDateTime): TTFDayOfWeek
5127: Procedure CalcTextPos( HostRect: TRect; var TextLeft, TextTop: Integer; var TextBounds: TRect;
  AFont: TFont; AAngle: Integer; HAlign: TAlignment; VAlign: TJvTFVAlignment; ATxt: string)
5128: Procedure DrawAngleText( ACanvas: TCanvas; HostRect: TRect; var TextBounds: TRect; AAngle: Integer;
  HAlign: TAlignment; VAlign: TJvTFVAlignment; ATxt: string)
5129: Function JRectWidth( ARect: TRect): Integer
5130: Function JRectHeight( ARect: TRect): Integer
5131: Function JEmptyRect: TRect
5132: Function IsClassByName( Obj: TObject; ClassName: string): Boolean
5133:
5134: procedure SIRegister_MSysUtils(CL: TPSPascalCompiler);
5135: begin
5136: Procedure HideTaskBarButton( hWindow: HWND)
5137: Function msLoadStr( ID: Integer): String

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5138: Function msFormat( fmt : String; params : array of const) : String
5139: Function msFileExists( const FileName : String) : Boolean
5140: Function msIntToStr( Int : Int64) : String
5141: Function msStrPas( const Str : PChar) : String
5142: Function msRenameFile( const OldName, NewName : String) : Boolean
5143: Function CutFileName( s : String) : String
5144: Function GetVersionInfo( var VersionString : String) : DWORD
5145: Function FormatTime( t : Cardinal) : String
5146: Function msCreateDir( const Dir : string) : Boolean
5147: Function SetAutoRun( NeedAutoRun : Boolean; AppName : String) : Boolean
5148: Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword) : DWORD
5149: Function msStrLen( Str : PChar) : Integer
5150: Function msDirectoryExists( const Directory : String) : Boolean
5151: Function GetFolder( hWnd : hWnd; RootDir : Integer; Caption : String) : String
5152: Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte) : LongBool
5153: Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
5154: Procedure SetEditWndProc( hWnd : HWND; ptr : TObject)
5155: Function GetTextFromFile( Filename : String) : string
5156: Function IsTopMost( hWnd : HWND) : Bool // 'LWA_ALPHA','LongWord').SetUInt( $00000002);
5157: Function msStrToIntDef( const s : String; const i : Integer) : Integer
5158: Function msStrToInt( s : String) : Integer
5159: Function GetItemText( hDlg : THandle; ID : DWORD) : String
5160: end;
5161:
5162: procedure SIRegister_ESBMaths2(CL: TPSPascalCompiler);
5163: begin
5164:   //TDynFloatArray', 'array of Extended
5165:   TDynLWordArray', 'array of LongWord
5166:   TDynLIntArray', 'array of LongInt
5167:   TDynFloatMatrix', 'array of TDynFloatArray
5168:   TDynLWordMatrix', 'array of TDynLWordArray
5169:   TDynLIntMatrix', 'array of TDynLIntArray
5170:   Function SquareAll( const X : TDynFloatArray) : TDynFloatArray
5171:   Function InverseAll( const X : TDynFloatArray) : TDynFloatArray
5172:   Function LnAll( const X : TDynFloatArray) : TDynFloatArray
5173:   Function Log10All( const X : TDynFloatArray) : TDynFloatArray
5174:   Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended) : TDynFloatArray
5175:   Function AddVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5176:   Function SubVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5177:   Function MultVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5178:   Function DotProduct( const X, Y : TDynFloatArray) : Extended
5179:   Function MNorm( const X : TDynFloatArray) : Extended
5180:   Function MatrixIsRectangular( const X : TDynFloatMatrix) : Boolean
5181:   Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean;
5182:   Function MatrixIsSquare( const X : TDynFloatMatrix) : Boolean
5183:   Function MatricesSameDimensions( const X, Y : TDynFloatMatrix) : Boolean
5184:   Function AddMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5185:   Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5186:   Function SubtractMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5187:   Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5188:   Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended) : TDynFloatMatrix
5189:   Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended);
5190:   Function MultiplyMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix;
5191:   Function TransposeMatrix( const X : TDynFloatMatrix) : TDynFloatMatrix;
5192:   Function GrandMean( const X : TDynFloatMatrix; var N : LongWord) : Extended
5193: end;
5194:
5195: procedure SIRegister_ESBMaths(CL: TPSPascalCompiler);
5196: begin
5197:   'ESBMinSingle','Single').setExtended( 1.5e-45);
5198:   'ESBMaxSingle','Single').setExtended( 3.4e+38);
5199:   'ESBMinDouble','Double').setExtended( 5.0e-324);
5200:   'ESBMaxDouble','Double').setExtended( 1.7e+308);
5201:   'ESBMinExtended','Extended').setExtended( 3.6e-4951);
5202:   'ESBMaxExtended','Extended').setExtended( 1.1e+4932);
5203:   'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807);
5204:   'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807);
5205:   'ESBSqrt2','Extended').setExtended( 1.4142135623730950488);
5206:   'ESBSqrt3','Extended').setExtended( 1.7320508075688772935);
5207:   'ESBSqrt5','Extended').setExtended( 2.2360679774997896964);
5208:   'ESBSqrtPi','Extended').setExtended( 3.1622776601683793320);
5209:   'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729);
5210:   'ESBCbrt2','Extended').setExtended( 1.2599210498948731648);
5211:   'ESBCbrt3','Extended').setExtended( 1.4422495703074083823);
5212:   'ESBCbrt10','Extended').setExtended( 2.1544346900318837219);
5213:   'ESBCbrt100','Extended').setExtended( 4.6415888336127788924);
5214:   'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630);
5215:   'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440);
5216:   'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451);
5217:   'ESBInvSqrt5','Extended').setExtended( 0.44721359549995793928);
5218:   'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695);
5219:   'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147);
5220:   'ESBe','Extended').setExtended( 2.7182818284590452354);
5221:   'ESBe2','Extended').setExtended( 7.3890560989306502272);
5222:   'ESBePi','Extended').setExtended( 23.140692632779269006);
5223:   'ESBePiOn2','Extended').setExtended( 4.8104773809653516555);
5224:   'ESBePiOn4','Extended').setExtended( 2.1932800507380154566);
5225:   'ESBLn2','Extended').setExtended( 0.69314718055994530942);
5226:   'ESBLn10','Extended').setExtended( 2.30258509299404568402);

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5227: 'ESBLnPi', 'Extended').setExtended( 1.14472988584940017414);
5228: 'ESBLog10Base2', 'Extended').setExtended( 3.3219280948873623478);
5229: 'ESBLog2Base10', 'Extended').setExtended( 0.30102999566398119521);
5230: 'ESBLog3Base10', 'Extended').setExtended( 0.47712125471966243730);
5231: 'ESBLogPiBase10', 'Extended').setExtended( 0.4971498726941339);
5232: 'ESBLogEBase10', 'Extended').setExtended( 0.43429448190325182765);
5233: 'ESBPi', 'Extended').setExtended( 3.1415926535897932385);
5234: 'ESBInvPi', 'Extended').setExtended( 3.1830988618379067154e-1);
5235: 'ESBTwoPi', 'Extended').setExtended( 6.2831853071795864769);
5236: 'ESBThreePi', 'Extended').setExtended( 9.4247779607693797153);
5237: 'ESBPI2', 'Extended').setExtended( 9.8696044010893586188);
5238: 'ESBPItoE', 'Extended').setExtended( 22.459157718361045473);
5239: 'ESBPIon2', 'Extended').setExtended( 1.5707963267948966192);
5240: 'ESBPIon3', 'Extended').setExtended( 1.0471975511965977462);
5241: 'ESBPIon4', 'Extended').setExtended( 0.7853981633974483096);
5242: 'ESBThreePiOn2', 'Extended').setExtended( 4.7123889803846898577);
5243: 'ESBFourPiOn3', 'Extended').setExtended( 4.1887902047863909846);
5244: 'ESBTwoToPower63', 'Extended').setExtended( 9223372036854775808.0);
5245: 'ESBOneRadian', 'Extended').setExtended( 57.295779513082320877);
5246: 'ESBOneDegree', 'Extended').setExtended( 1.7453292519943295769E-2);
5247: 'ESBOneMinute', 'Extended').setExtended( 2.9088820866572159615E-4);
5248: 'ESBOneSecond', 'Extended').setExtended( 4.8481368110953599359E-6);
5249: 'ESBGamma', 'Extended').setExtended( 0.57721566490153286061);
5250: 'ESBLnRt2Pi', 'Extended').setExtended( 9.189385332046727E-1);
5251: //LongWord', 'Cardinal
5252: TBitList', 'Word
5253: Function UMul( const Num1, Num2 : LongWord) : LongWord
5254: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5255: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5256: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5257: Function SameFloat( const X1, X2 : Extended) : Boolean
5258: Function FloatIsZero( const X : Extended) : Boolean
5259: Function FloatIsPositive( const X : Extended) : Boolean
5260: Function FloatIsNegative( const X : Extended) : Boolean
5261: Procedure IncLim( var B : Byte; const Limit : Byte)
5262: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5263: Procedure IncLimW( var B : Word; const Limit : Word)
5264: Procedure IncLimI( var B : Integer; const Limit : Integer)
5265: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5266: Procedure DecLim( var B : Byte; const Limit : Byte)
5267: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5268: Procedure DecLimW( var B : Word; const Limit : Word)
5269: Procedure DecLimI( var B : Integer; const Limit : Integer)
5270: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5271: Function MaxB( const B1, B2 : Byte) : Byte
5272: Function MinB( const B1, B2 : Byte) : Byte
5273: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5274: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5275: Function MaxW( const B1, B2 : Word) : Word
5276: Function MinW( const B1, B2 : Word) : Word
5277: Function esbMaxI( const B1, B2 : Integer) : Integer
5278: Function esbMinI( const B1, B2 : Integer) : Integer
5279: Function MaxL( const B1, B2 : LongInt) : LongInt
5280: Function MinL( const B1, B2 : LongInt) : LongInt
5281: Procedure SwapB( var B1, B2 : Byte)
5282: Procedure SwapSI( var B1, B2 : ShortInt)
5283: Procedure SwapW( var B1, B2 : Word)
5284: Procedure SwapI( var B1, B2 : SmallInt)
5285: Procedure SwapL( var B1, B2 : LongInt)
5286: Procedure SwapI32( var B1, B2 : Integer)
5287: Procedure SwapC( var B1, B2 : LongWord)
5288: Procedure SwapInt64( var X, Y : Int64)
5289: Function esbSign( const B : LongInt) : ShortInt
5290: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5291: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5292: Function Max3Word( const X1, X2, X3 : Word) : Word
5293: Function Min3Word( const X1, X2, X3 : Word) : Word
5294: Function MaxBArray( const B : array of Byte) : Byte
5295: Function MaxWArray( const B : array of Word) : Word
5296: Function MaxSIArray( const B : array of ShortInt) : ShortInt
5297: Function MaxIArray( const B : array of Integer) : Integer
5298: Function MaxLArray( const B : array of LongInt) : LongInt
5299: Function MinBArray( const B : array of Byte) : Byte
5300: Function MinWArray( const B : array of Word) : Word
5301: Function MinSIArray( const B : array of ShortInt) : ShortInt
5302: Function MinIArray( const B : array of Integer) : Integer
5303: Function MinLArray( const B : array of LongInt) : LongInt
5304: Function SumBArray( const B : array of Byte) : Byte
5305: Function SumBArray2( const B : array of Byte) : Word
5306: Function SumSIArray( const B : array of ShortInt) : ShortInt
5307: Function SumSIArray2( const B : array of ShortInt) : Integer
5308: Function SumWArray( const B : array of Word) : Word
5309: Function SumWArray2( const B : array of Word) : LongInt
5310: Function SumIArray( const B : array of Integer) : Integer
5311: Function SumLArray( const B : array of LongInt) : LongInt
5312: Function SumLWArray( const B : array of LongWord) : LongWord
5313: Function ESBDigits( const X : LongWord) : Byte
5314: Function BitsHighest( const X : LongWord) : Integer
5315: Function ESBBitsNeeded( const X : LongWord) : Integer

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5316: Function esbGCD( const X, Y : LongWord) : LongWord
5317: Function esbLCM( const X, Y : LongInt) : Int64
5318: //Function esbLCM( const X, Y : LongInt) : LongInt
5319: Function RelativePrime( const X, Y : LongWord) : Boolean
5320: Function Get87ControlWord : TBitList
5321: Procedure Set87ControlWord( const CWord : TBitList)
5322: Procedure SwapExt( var X, Y : Extended)
5323: Procedure SwapDbl( var X, Y : Double)
5324: Procedure SwapSing( var X, Y : Single)
5325: Function esbSgn( const X : Extended) : ShortInt
5326: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5327: Function ExtMod( const X, Y : Extended) : Extended
5328: Function ExtRem( const X, Y : Extended) : Extended
5329: Function CompMOD( const X, Y : Comp) : Comp
5330: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5331: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5332: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5333: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5334: Function MaxExt( const X, Y : Extended) : Extended
5335: Function MinExt( const X, Y : Extended) : Extended
5336: Function MaxEArray( const B : array of Extended) : Extended
5337: Function MinEArray( const B : array of Extended) : Extended
5338: Function MaxSArray( const B : array of Single) : Single
5339: Function MinSArray( const B : array of Single) : Single
5340: Function MaxCArray( const B : array of Comp) : Comp
5341: Function MinCArray( const B : array of Comp) : Comp
5342: Function SumSArray( const B : array of Single) : Single
5343: Function SumEArray( const B : array of Extended) : Extended
5344: Function SumSqEArray( const B : array of Extended) : Extended
5345: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5346: Function SumXYEArray( const X, Y : array of Extended) : Extended
5347: Function SumCArray( const B : array of Comp) : Comp
5348: Function FactorialX( A : LongWord) : Extended
5349: Function PermutationX( N, R : LongWord) : Extended
5350: Function esbBinomialCoeff( N, R : LongWord) : Extended
5351: Function IsPositiveEArray( const X : array of Extended) : Boolean
5352: Function esbGeometricMean( const X : array of Extended) : Extended
5353: Function esbHarmonicMean( const X : array of Extended) : Extended
5354: Function ESBMean( const X : array of Extended) : Extended
5355: Function esbSampleVariance( const X : array of Extended) : Extended
5356: Function esbPopulationVariance( const X : array of Extended) : Extended
5357: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5358: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5359: Function GetMedian( const SortedX : array of Extended) : Extended
5360: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5361: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5362: Function ESBMagnitude( const X : Extended) : Integer
5363: Function ESBTan( Angle : Extended) : Extended
5364: Function ESBcot( Angle : Extended) : Extended
5365: Function ESBcosec( const Angle : Extended) : Extended
5366: Function ESBsec( const Angle : Extended) : Extended
5367: Function ESBArcTan( X, Y : Extended) : Extended
5368: Procedure ESBsinCos( Angle : Extended; var SinX, CosX : Extended)
5369: Function ESBArcCos( const X : Extended) : Extended
5370: Function ESBArcSin( const X : Extended) : Extended
5371: Function ESBArcSec( const X : Extended) : Extended
5372: Function ESBArcCosec( const X : Extended) : Extended
5373: Function ESBLog10( const X : Extended) : Extended
5374: Function ESBLog2( const X : Extended) : Extended
5375: Function ESBLogBase( const X, Base : Extended) : Extended
5376: Function Pow2( const X : Extended) : Extended
5377: Function IntPow( const Base : Extended; const Exponent : LongWord) : Extended
5378: Function ESBIntPower( const X : Extended; const N : LongInt) : Extended
5379: Function XtoY( const X, Y : Extended) : Extended
5380: Function esbTenToY( const Y : Extended) : Extended
5381: Function esbTwoToY( const Y : Extended) : Extended
5382: Function LogXtoBaseY( const X, Y : Extended) : Extended
5383: Function esbISqrt( const I : LongWord) : LongWord
5384: Function ILog2( const I : LongWord) : LongWord
5385: Function IGreatestPowerOf2( const N : LongWord) : LongWord
5386: Function ESBArCosh( X : Extended) : Extended
5387: Function ESBArSinh( X : Extended) : Extended
5388: Function ESBArTanh( X : Extended) : Extended
5389: Function ESBcosh( X : Extended) : Extended
5390: Function ESBsinh( X : Extended) : Extended
5391: Function ESBtanh( X : Extended) : Extended
5392: Function InverseGamma( const X : Extended) : Extended
5393: Function esbGamma( const X : Extended) : Extended
5394: Function esbLnGamma( const X : Extended) : Extended
5395: Function esbBeta( const X, Y : Extended) : Extended
5396: Function IncompleteBeta( X : Extended; P, Q : Extended) : Extended
5397: end;
5398:
5399: *****Integer Huge Cardinal Utils*****
5400: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean) : uint64
5401: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean) : uint32
5402: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean) : uint64
5403: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean) : uint32
5404: Function BitCount_8( Value : byte) : integer

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5405: Function BitCount_16( Value : uint16) : integer
5406: Function BitCount_32( Value : uint32) : integer
5407: Function BitCount_64( Value : uint64) : integer
5408: Function CountSetBits_64( Value : uint64) : integer TPrimalityTestNoticeProc',
5409: Procedure ( CountPrimalityTests : integer)
5410: Function gcd( a, b : THugeCardinal) : THugeCardinal
5411: Function lcm( a, b : THugeCardinal) : THugeCardinal
5412: Function isCoPrime( a, b : THugeCardinal) : boolean
5413: Function isProbablyPrime(p : THugeCardinal; OnProgress : TProgress; var wasAborted : boolean) : boolean
5414: Function hasSmallFactor( p : THugeCardinal) : boolean
5415: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest :
TPrimalityTestNoticeProc; PassCount : integer; Pool1 : TMemoryStreamPool; var Prime : THugeCardinal; var
NumbersTested : integer) : boolean
5416: Function Inverse( Prime, Modulus : THugeCardinal) : THugeCardinal
5417: Const('StandardExponent', 'LongInt').SetInt( 65537);
5418: //Procedure Compute_RSA_Fundamentals_2Factors( RequiredBitLengthOfN : integer; Fixed_e : uint64; var N, e, d,
Totient : TProgress;
OnPrimalityTest : TPrimalityTestNoticeProc; GeneratePrimePassCount : integer; Pool1 : TMemoryStreamPool; var Numbers
5419: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal) : boolean')
5420:
5421: procedure SIRegister_xrtl_math_Integer(CL: TPSPascalCompiler);
5422: begin
5423:   AddTypeS('TXRTLInteger', 'array of Integer
5424:   AddClassN(FindClass('TOBJECT'), 'EXRTLMathException
5425:   (FindClass('TOBJECT'), 'EXRTLExtendInvalidArgument
5426:   AddClassN(FindClass('TOBJECT'), 'EXRTLDivisionByZero
5427:   AddClassN(FindClass('TOBJECT'), 'EXRTLExpInvalidArgument
5428:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadix
5429:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadixDigit
5430:   AddClassN(FindClass('TOBJECT'), 'EXRTLRootInvalidArgument
5431:   'BitsPerByte', 'LongInt').SetInt( 8);
5432:   BitsPerDigit', 'LongInt').SetInt( 32);
5433:   SignBitMask', 'LongWord').SetUInt( $80000000);
5434: Function XRTLAdjustBits( const ABits : Integer) : Integer
5435: Function XRTLLength( const AInteger : TXRTLInteger) : Integer
5436: Function XRTLDataBits( const AInteger : TXRTLInteger) : Integer
5437: Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer)
5438: Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer)
5439: Procedure XRTLBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer)
5440: Function XRTLBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer) : Integer
5441: Function XRTLBitGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer) : Boolean
5442: Function XRTLExtend( const AInteger : TXRTLInteger; ADataBits : Integer; Sign : Int; var AResult : TXRTLInteger) : Int;
5443: Function XRTLZeroExtend( const AInteger : TXRTLInteger; ADataBits : Integer; var AResult : TXRTLInteger) : Integer;
5444: Function XRTLSignExtend( const AInteger : TXRTLInteger; ADataBits : Integer; var AResult : TXRTLInteger) : Integer;
5445: Function XRTLSignStrip( const AInteger : TXRTLInteger; var AResult : TXRTLInteger; const AMinDataBits : Int) : Int;
5446: Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5447: Procedure XRTLOR( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5448: Procedure XRTLLand( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5449: Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5450: Function XRTLSign( const AInteger : TXRTLInteger) : Integer
5451: Procedure XRTLZero( var AInteger : TXRTLInteger)
5452: Procedure XRTLOne( var AInteger : TXRTLInteger)
5453: Procedure XRTLMOne( var AInteger : TXRTLInteger)
5454: Procedure XRTLTwo( var AInteger : TXRTLInteger)
5455: Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5456: Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5457: Procedure XRTLFullSum( const A, B, C : Integer; var Sum, Carry : Integer)
5458: Function XRTLAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5459: Function XRTLAdd1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64; var AResult : TXRTLInteger) : Integer;
5460: Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5461: Function XRTLSub1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64; var AResult : TXRTLInteger) : Integer;
5462: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger) : Integer;
5463: Function XRTLCompare1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64) : Integer;
5464: Function XRTLUMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5465: Function XRTLMulAdd( const AInteger1, AInteger2, AInteger3 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5466: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5467: Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger)
5468: Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5469: Procedure XRTLSqrt( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5470: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5471: Procedure XRTLRootApprox( const AInteger1, AInteger2 : TXRTLInteger; var ALowApproxResult,
AHighApproxResult : TXRTLInteger)
5472: Procedure XRTLURootApprox( const AInteger1, AInteger2 : TXRTLInteger; var ALowApproxResult,
AHighApproxResult : TXRTLInteger);
5473: Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5474: Procedure XRTLExpMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger; var AResult : TXRTLInteger)
5475: Procedure XRTLSLBl( const AInteger : TXRTLInteger; const BitCount : Integer; var AResult : TXRTLInteger)
5476: Procedure XRTLSABl( const AInteger : TXRTLInteger; const BitCount : Integer; var AResult : TXRTLInteger)
5477: Procedure XRTLRCBl( const AInteger : TXRTLInteger; const BitCount : Integer; var AResult : TXRTLInteger)
5478: Procedure XRTLSLdL( const AInteger : TXRTLInteger; const DigitCount : Integer; var AResult : TXRTLInteger)
5479: Procedure XRTLSADL( const AInteger : TXRTLInteger; const DigitCount : Integer; var AResult : TXRTLInteger)
5480: Procedure XRTLRCdL( const AInteger : TXRTLInteger; const DigitCount : Integer; var AResult : TXRTLInteger)
5481: Procedure XRTLSLBR( const AInteger : TXRTLInteger; const BitCount : Integer; var AResult : TXRTLInteger)
5482: Procedure XRTLSABR( const AInteger : TXRTLInteger; const BitCount : Integer; var AResult : TXRTLInteger)
5483: Procedure XRTLRCBR( const AInteger : TXRTLInteger; const BitCount : Integer; var AResult : TXRTLInteger)
5484: Procedure XRTLSLDR( const AInteger : TXRTLInteger; const DigitCount : Integer; var AResult : TXRTLInteger)
5485: Procedure XRTLSADR( const AInteger : TXRTLInteger; const DigitCount : Integer; var AResult : TXRTLInteger)
5486: Procedure XRTLRCDR( const AInteger : TXRTLInteger; const DigitCount : Integer; var AResult : TXRTLInteger)
5487: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer) : string

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5488: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer) : string
5489: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer) : string
5490: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger)
5491: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger)
5492: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer)
5493: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger);
5494: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger);
5495: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger);
5496: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger)
5497: Procedure XRTLSplit(const AInteger: TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5498: Function XRTLGetMSBitIndex( const AInteger : TXRTLInteger) : Integer
5499: Procedure XRTLMinMax(const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger)
5500: Procedure XRTLMin( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5501: Procedure XRTLMin1(const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger);
5502: Procedure XRTLMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5503: Procedure XRTLMax1(const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger);
5504: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5505: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger)
5506: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5507: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5508: end;
5509:
5510: procedure SIRegister_JvXPCoreUtils(CL: TPSPascalCompiler);
5511: begin
5512:   Function JvXPMethodsEqual( const Method1, Method2 : TMethod) : Boolean
5513:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer)
5514:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap);
5515:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
BoundLines:TJvXPBoundLines; var Rect : TRect)
5516:   Procedure JvXPDrawBoundLines(const ACanvas:TCanvas;const BoundLines:TJvXPBoundLines;const
AColor:TColor;const Rect:TRect);
5517:   Procedure JvXPConvertToGray2( Bitmap : TBitmap)
5518:   Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer)
5519:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect;const TopColor,BottomColor:TColor;const
Swapped:Boolean);
5520:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor)
5521:   Procedure JvXPSetDrawFlags(const AAlignment: TAlignment;const AWordWrap: Boolean; var Flags : Integer)
5522:   Procedure JvXPPlaceText( const AParent: TControl; const ACanvas : TCanvas; const AText : TCaption; const
AFont : TFont; const AEnabled, AShowAccelChar:Boolean; const AAlignment: TAlignment;const
AWordWrap:Boolean;var Rect: TRect)
5523: end;
5524:
5525:
5526: procedure SIRegister_uwinstr(CL: TPSPascalCompiler);
5527: begin
5528:   Function StrDec( S : String) : String
5529:   Function uIsNumeric( var S : String; var X : Float) : Boolean
5530:   Function ReadNumFromEdit( Edit : TEdit) : Float
5531:   Procedure WriteNumToFile( var F : Text; X : Float)
5532: end;
5533:
5534: procedure SIRegister_utexplot(CL: TPSPascalCompiler);
5535: begin
5536:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean) : Boolean
5537:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
5538:   Procedure TeX_LeaveGraphics( Footer : Boolean)
5539:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
5540:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
5541:   Procedure TeX_SetGraphTitle( Title : String)
5542:   Procedure TeX_SetOxTitle( Title : String)
5543:   Procedure TeX_SetOyTitle( Title : String)
5544:   Procedure TeX_PlotOxAxis
5545:   Procedure TeX_PlotOyAxis
5546:   Procedure TeX_PlotGrid( Grid : TGrid)
5547:   Procedure TeX_WriteGraphTitle
5548:   Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5549:   Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5550:   Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5551:   Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5552:   Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5553:   Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5554:   Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5555:   Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5556:   Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5557:   Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5558:   Function Xcm( X : Float) : Float
5559:   Function Ycm( Y : Float) : Float
5560: end;
5561:
5562: *-----*)
5563: procedure SIRegister_VarRecUtils(CL: TPSPascalCompiler);
5564: begin
5565:   TConstArray', 'array of TVarRec
5566:   Function CopyVarRec( const Item : TVarRec) : TVarRec
5567:   Function CreateConstArray( const Elements : array of const) : TConstArray
5568:   Procedure FinalizeVarRec( var Item : TVarRec)
5569:   Procedure FinalizeConstArray( var Arr : TConstArray)

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5570: end;
5571:
5572: procedure SIRegister_StStrS(CL: TPSPascalCompiler);
5573: begin
5574:   Function HexBS( B : Byte) : ShortString
5575:   Function HexWS( W : Word) : ShortString
5576:   Function HexLS( L : LongInt) : ShortString
5577:   Function HexPtrS( P : Pointer) : ShortString
5578:   Function BinaryBS( B : Byte) : ShortString
5579:   Function BinaryWS( W : Word) : ShortString
5580:   Function BinaryLS( L : LongInt) : ShortString
5581:   Function OctalBS( B : Byte) : ShortString
5582:   Function OctalWS( W : Word) : ShortString
5583:   Function OctalLS( L : LongInt) : ShortString
5584:   Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5585:   Function Str2Words( const S : ShortString; var I : Word) : Boolean
5586:   Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5587:   Function Str2RealS( const S : ShortString; var R : Double) : Boolean
5588:   Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5589:   Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5590:   Function Long2StrS( L : LongInt) : ShortString
5591:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5592:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5593:   Function ValPrepS( const S : ShortString) : ShortString
5594:   Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5595:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5596:   Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5597:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5598:   Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5599:   Function TrimLeadS( const S : ShortString) : ShortString
5600:   Function TrimTrails( const S : ShortString) : ShortString
5601:   Function TrimS( const S : ShortString) : ShortString
5602:   Function TrimSpacesS( const S : ShortString) : ShortString
5603:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5604:   Function CenterS( const S : ShortString; Len : Cardinal) : ShortString
5605:   Function EntabS( const S : ShortString; TabSize : Byte) : ShortString
5606:   Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5607:   Function ScrambleS( const S, Key : ShortString) : ShortString
5608:   Function SubstituteS( const S, FromStr, ToStr : ShortString) : ShortString
5609:   Function FilterS( const S, Filters : ShortString) : ShortString
5610:   Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5611:   Function CharCountS( const S : ShortString; C : AnsiChar) : Byte
5612:   Function WordCountS( const S, WordDelims : ShortString) : Cardinal
5613:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5614:   Function ExtractWords( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5615:   Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5616:   Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5617:   Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5618:   Procedure WordWrapS(const InSt : ShortString; var OutSt,Overlap : ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5619:   Function CompStringS( const S1, S2 : ShortString) : Integer
5620:   Function CompUCStringS( const S1, S2 : ShortString) : Integer
5621:   Function SoundexS( const S : ShortString) : ShortString
5622:   Function MakeLetterSetS( const S : ShortString) : Longint
5623:   Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable)
5624:   Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5625:   Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5626:   Function DefaultExtensionS( const Name, Ext : ShortString) : ShortString
5627:   Function ForceExtensionS( const Name, Ext : ShortString) : ShortString
5628:   Function JustFileNameS( const PathName : ShortString) : ShortString
5629:   Function JustNameS( const PathName : ShortString) : ShortString
5630:   Function JustExtensionS( const Name : ShortString) : ShortString
5631:   Function JustPathNameS( const PathName : ShortString) : ShortString
5632:   Function AddBackSlashS( const DirName : ShortString) : ShortString
5633:   Function CleanPathNameS( const PathName : ShortString) : ShortString
5634:   Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal) : Boolean
5635:   Function CommaizeS( L : LongInt) : ShortString
5636:   Function CommaizeChS( L : Longint; Ch : AnsiChar) : ShortString
5637:   Function FloatFormS(const Mask:ShortString;R:TstFloat;const LtCurr,RtCurr:ShortString;Sep,
DecPt:Char):ShortString;
5638:   Function LongIntFormS(const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5639:   Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal) : Boolean
5640:   Function StrStPosS( const P, S : ShortString; var Pos : Cardinal) : Boolean
5641:   Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5642:   Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal) : ShortString
5643:   Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal) : ShortString
5644:   Function StrChDeleteS( const S : ShortString; Pos : Cardinal) : ShortString
5645:   Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5646:   Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5647:   Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5648:   Function CopyLeftS( const S : ShortString; Len : Cardinal) : ShortString
5649:   Function CopyMidS( const S : ShortString; First, Len : Cardinal) : ShortString
5650:   Function CopyRightS( const S : ShortString; First : Cardinal) : ShortString
5651:   Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal) : ShortString
5652:   Function CopyFromNthWordS(const S,WordDelims:string;const AWord:String;N:Cardinal;var
SubString:ShortString) :Boolean;

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5653: Function DeleteFromNthWords(const S,WordDelims:String;AWord:ShortString;N:Cardinal;var
SubStr:ShortString): Boolean;
5654: Function CopyFromToWords(const S,WordDelims,Word1,Word2:ShortString;N1,N2:Cardinal;var
SubString:ShortString): Boolean;
5655: Function DeleteFromToWords(const S,WordDelims,Wrd1,Wrd2:ShortString;N1,N2:Cardinal;var
SubString:ShortString): Boolean;
5656: Function CopyWithinS(const S, Delimiter : ShortString; Strip : Boolean) : ShortString
5657: Function DeleteWithinS(const S, Delimiter : ShortString) : ShortString
5658: Function ExtractTokensS(const S,
Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings):Cardinal
5659: Function IsChAlphaS( C : Char) : Boolean
5660: Function IsChNumericS( C : Char; const Numbers : ShortString) : Boolean
5661: Function IsChAlphaNumericS( C : Char; const Numbers : ShortString) : Boolean
5662: Function IsStrAlphaS(const S : ShortString) : Boolean
5663: Function IsStrNumericS(const S, Numbers : ShortString) : Boolean
5664: Function IsStrAlphaNumericS(const S, Numbers : ShortString) : Boolean
5665: Function LastWords(const S, WordDelims, AWord : ShortString; var Position : Cardinal) : Boolean
5666: Function LastWordAbsS(const S, WordDelims : ShortString; var Position : Cardinal) : Boolean
5667: Function LastStringS(const S, AString : ShortString; var Position : Cardinal) : Boolean
5668: Function LeftTrimCharsS(const S, Chars : ShortString) : ShortString
5669: Function KeepCharsS(const S, Chars : ShortString) : ShortString
5670: Function RepeatStringS(const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen :
Cardinal):ShortString;
5671: Function ReplaceStringS(const S,OldString,NewString:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString;
5672: Function ReplaceStringAllS(const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5673: Function ReplaceWordsS(const S,WordDelims,OldWord,NewW:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString
5674: Function ReplaceWordAllS(const S,WordDelims,OldWord,NewWord:ShortString;var
Replacements:Cardinal):ShortString
5675: Function RightTrimCharsS(const S, Chars : ShortString) : ShortString
5676: Function StrWithinS(const S,SearchStr: ShortString;Start:Cardinal;var Position:Cardinal):boolean
5677: Function TrimCharsS(const S, Chars : ShortString) : ShortString
5678: Function WordPosS(const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5679: end;
5680:
5681:
5682: *****unit uPSI_StUtils; from Systools4*****
5683: Function SignL( L : LongInt) : Integer
5684: Function SignF( F : Extended) : Integer
5685: Function MinWord( A, B : Word) : Word
5686: Function MidWord( W1, W2, W3 : Word) : Word
5687: Function MaxWord( A, B : Word) : Word
5688: Function MinLong( A, B : LongInt) : LongInt
5689: Function MidLong( L1, L2, L3 : LongInt) : LongInt
5690: Function MaxLong( A, B : LongInt) : LongInt
5691: Function MinFloat( F1, F2 : Extended) : Extended
5692: Function MidFloat( F1, F2, F3 : Extended) : Extended
5693: Function MaxFloat( F1, F2 : Extended) : Extended
5694: Function MakeInteger16( H, L : Byte) : SmallInt
5695: Function MakeWordS( H, L : Byte) : Word
5696: Function SwapNibble( B : Byte) : Byte
5697: Function SwapWord( L : LongInt) : LongInt
5698: Procedure SetFlag( var Flags : Word; FlagMask : Word)
5699: Procedure ClearFlag( var Flags : Word; FlagMask : Word)
5700: Function FlagIsSet( Flags, FlagMask : Word) : Boolean
5701: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte)
5702: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte)
5703: Function ByteFlagIsSet( Flags, FlagMask : Byte) : Boolean
5704: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt)
5705: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt)
5706: Function LongFlagIsSet( Flags, FlagMask : LongInt) : Boolean
5707: Procedure ExchangeBytes( var I, J : Byte)
5708: Procedure ExchangeWords( var I, J : Word)
5709: Procedure ExchangeLongInts( var I, J : LongInt)
5710: Procedure ExchangeStructs( var I, J, Size : Cardinal)
5711: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word)
5712: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal)
5713: Function AddWordToPtr( P : __Pointer; W : Word) : __Pointer
5714: //*****uPSI_StFIN;*****
5715: Function AccruedInterestMaturity(Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis): Extended
5716: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate;Rate,
Par:Extended;Frequency:TStFrequency; Basis : TStBasis): Extended
5717: Function BondDuration( Settlement,Maturity:TStDate;Rate,
Yield:Extended;Frequency:TStFrequency;Basis:TStBasis):Extended;
5718: Function BondPrice(Settlement,Maturity:TStDate;Rate,Yield,
Redemption:Extended;Freq:TStFrequency;Basis:TStBasis): Extended
5719: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5720: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5721: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis) : LongInt
5722: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer) : Extended
5723: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis): Extended;
5724: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer) : Extended
5725: Function DollarToDecimalText( DecDollar : Extended) : string
5726: Function DollarToFraction( DecDollar : Extended; Fraction : Integer) : Extended
5727: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer) : string
5728: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency) : Extended

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5729: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
PV:Extended;Freq:TStFrequency;Timing:TStPaymentTime):Extended;
5730: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double) : Extended
5731: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer) : Extended
5732: Function InterestRateS(NPeriods:Int;Pmt,PV,
FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extended;
5733: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended) : Extended
5734: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended) : Extended
5735: Function IsCardValid( const S : string) : Boolean
5736: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5737: Function ModifiedIRR(const Values: array of Double; FinanceRate,ReinvestRate: Extended) : Extended
5738: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended) : Extended
5739: Function NetPresentValueS( Rate : Extended; const Values : array of Double) : Extended
5740: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer) : Extended
5741: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency) : Extended
5742: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5743: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5744: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
: TStPaymentTime): Extended
5745: Function Periods(Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5746: Function PresentValueS( Rate: Extended; NPeriods: Integer; Pmt, FV: Extended; Frequency: TStFrequency;
Timing: TStPaymentTime): Extended
5747: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5748: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean) : Extended
5749: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended) : Extended
5750: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended) : Extended
5751: Function TBillYield( Settlement, Maturity : TStDate; Price : Extended) : Extended
5752: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
Factor : Extended; NoSwitch : boolean) : Extended
5753: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5754: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
Redemption:Extended;Freq:TStFrequency;Basis:TStBasis): Extended
5755: Function YieldMaturity(Issue,Settlement,Maturity:TStDate;Rate,Price:Extended;Basis:TStBasis):Extended;
5756:
5757: *****unit uPSI_StAstroP;
5758: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray)
5759: *****unit unit uPSI_StStat; Statistic Package of SysTools*****
5760: Function AveDev( const Data : array of Double) : Double
5761: Function AveDev16( const Data, NData : Integer) : Double
5762: Function Confidence( Alpha, StandardDev : Double; Size : LongInt) : Double
5763: Function Correlation( const Data1, Data2 : array of Double) : Double
5764: Function Correlation16( const Data1, Data2, NData : Integer) : Double
5765: Function Covariance( const Data1, Data2 : array of Double) : Double
5766: Function Covariance16( const Data1, Data2, NData : Integer) : Double
5767: Function DevSq( const Data : array of Double) : Double
5768: Function DevSql6( const Data, NData : Integer) : Double
5769: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5770: Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5771: Function GeometricMeanS( const Data : array of Double) : Double
5772: Function GeometricMean16( const Data, NData : Integer) : Double
5773: Function HarmonicMeanS( const Data : array of Double) : Double
5774: Function HarmonicMean16( const Data, NData : Integer) : Double
5775: Function Largest( const Data : array of Double; K : Integer) : Double
5776: Function Largest16( const Data, NData : Integer; K : Integer) : Double
5777: Function MedianS( const Data : array of Double) : Double
5778: Function Median16( const Data, NData : Integer) : Double
5779: Function Mode( const Data : array of Double) : Double
5780: Function Model16( const Data, NData : Integer) : Double
5781: Function Percentile( const Data : array of Double; K : Double) : Double
5782: Function Percentile16( const Data, NData : Integer; K : Double) : Double
5783: Function PercentRank( const Data : array of Double; X : Double) : Double
5784: Function PercentRank16( const Data, NData : Integer; X : Double) : Double
5785: Function Permutations( Number, NumberChosen : Integer) : Extended
5786: Function Combinations( Number, NumberChosen : Integer) : Extended
5787: Function FactorialS( N : Integer) : Extended
5788: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean) : Integer
5789: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean) : Integer
5790: Function Smallest( const Data : array of Double; K : Integer) : Double
5791: Function Smallest16( const Data, NData : Integer; K : Integer) : Double
5792: Function TrimMean( const Data : array of Double; Percent : Double) : Double
5793: Function TrimMean16( const Data, NData : Integer; Percent : Double) : Double
5794: AddTypeS('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB1
5795: +1 : Double; R2 : Double; sigma :Double; SSR: double; SSE: Double; F0 : Double; df : Integer;end
5796: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var
LF:TStLinEst;ErrorStats:Bool;
5797: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var
LF:TStLinEst;ErrorStats:Bool;
5798: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5799: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5800: Function Intercept( const KnownY : array of Double; const KnownX : array of Double) : Double
5801: Function RSquared( const KnownY : array of Double; const KnownX : array of Double) : Double
5802: Function Slope( const KnownY : array of Double; const KnownX : array of Double) : Double
5803: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double) : Double
5804: Function BetaDist( X, Alpha, Beta, A, B : Single) : Single
5805: Function BetaInv( Probability, Alpha, Beta, A, B : Single) : Single
5806: Function BinomDist( NumberS, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean) : Single
5807: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single) : Integer
5808: Function ChiDist( X : Single; DegreesFreedom : Integer) : Single

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5809: Function ChiInv( Probability : Single; DegreesFreedom : Integer ) : Single
5810: Function ExponDist( X, Lambda : Single; Cumulative : Boolean ) : Single
5811: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5812: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5813: Function LogNormDist( X, Mean, StandardDev : Single ) : Single
5814: Function LogInv( Probability, Mean, StandardDev : Single ) : Single
5815: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean ) : Single
5816: Function NormInv( Probability, Mean, StandardDev : Single ) : Single
5817: Function NormSDist( Z : Single ) : Single
5818: Function NormSInv( Probability : Single ) : Single
5819: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean ) : Single
5820: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean ) : Single
5821: Function TInv( Probability : Single; DegreesFreedom : Integer ) : Single
5822: Function Erfc( X : Single ) : Single
5823: Function GammaLn( X : Single ) : Single
5824: Function LargestSort( const Data : array of Double; K : Integer ) : Double
5825: Function SmallestSort( const Data : array of double; K : Integer ) : Double
5826:
5827: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5828:   Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt ) : LongInt
5829:   Function MinimumHeapToUse( RecLen : Cardinal ) : LongInt
5830:   Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt ) : TMergeInfo
5831:   Function DefaultMergeName( MergeNum : Integer ) : string
5832:   Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5833:
5834: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5835: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double ) : TStTime
5836: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double ) : TStRiseSetRec
5837: Function SunPos( UT : TStDateTimeRec ) : TStPosRec
5838: Function SunPosPrim( UT : TStDateTimeRec ) : TStSunXYZRec
5839: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5840: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5841: Function LunarPhase( UT : TStDateTimeRec ) : Double
5842: Function MoonPos( UT : TStDateTimeRec ) : TStMoonPosRec
5843: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5844: Function FirstQuarter( D : TStDate ) : TStLunarRecord
5845: Function FullMoon( D : TStDate ) : TStLunarRecord
5846: Function LastQuarter( D : TStDate ) : TStLunarRecord
5847: Function NewMoon( D : TStDate ) : TStLunarRecord
5848: Function NextFirstQuarter( D : TStDate ) : TStDateTimeRec
5849: Function NextFullMoon( D : TStDate ) : TStDateTimeRec
5850: Function NextLastQuarter( D : TStDate ) : TStDateTimeRec
5851: Function NextNewMoon( D : TStDate ) : TStDateTimeRec
5852: Function PrevFirstQuarter( D : TStDate ) : TStDateTimeRec
5853: Function PrevFullMoon( D : TStDate ) : TStDateTimeRec
5854: Function PrevLastQuarter( D : TStDate ) : TStDateTimeRec
5855: Function PrevNewMoon( D : TStDate ) : TStDateTimeRec
5856: Function SiderealTime( UT : TStDateTimeRec ) : Double
5857: Function Solstice( Y, Epoch : Integer; Summer : Boolean ) : TStDateTimeRec
5858: Function Equinox( Y, Epoch : Integer; Vernal : Boolean ) : TStDateTimeRec
5859: Function SEaster( Y, Epoch : Integer ) : TStDate
5860: Function DateTimeToAJD( D : TDateTime ) : Double
5861: Function HoursMin( RA : Double ) : ShortString
5862: Function DegsMin( DC : Double ) : ShortString
5863: Function AJDToDateTime( D : Double ) : TDateTime
5864:
5865: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5866: Function CurrentDate : TStDate
5867: Function StValidDate( Day, Month, Year, Epoch : Integer ) : Boolean
5868: Function DMYtoStDate( Day, Month, Year, Epoch : Integer ) : TStDate
5869: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer )
5870: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer ) : TStDate
5871: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer ) : TStDate
5872: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer )
5873: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType ) : TStDate
5874: Function WeekOfYear( Julian : TStDate ) : Byte
5875: Function AstJulianDate( Julian : TStDate ) : Double
5876: Function AstJulianDatetoStDate( AstJulian : Double; Truncate : Boolean ) : TStDate
5877: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime ) : Double
5878: Function StDayOfWeek( Julian : TStDate ) : TStDayType
5879: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer ) : TStDayType
5880: Function StIsLeapYear( Year : Integer ) : Boolean
5881: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer ) : Integer
5882: Function ResolveEpoch( Year, Epoch : Integer ) : Integer
5883: Function ValidTime( Hours, Minutes, Seconds : Integer ) : Boolean
5884: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte )
5885: Function HMStoStTime( Hours, Minutes, Seconds : Byte ) : TStTime
5886: Function CurrentTime : TStTime
5887: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte )
5888: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5889: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5890: Function RoundToNearestHour( T : TStTime; Truncate : Boolean ) : TStTime
5891: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean ) : TStTime
5892: Procedure DateTimeDiff(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt)
5893: Procedure IncDateTime(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt)
5894: Function DateTimeToStDate( DT : TDateTime ) : TStDate
5895: Function DateTimeToStTime( DT : TDateTime ) : TStTime
5896: Function StDateToDateTime( D : TStDate ) : TDateTime
5897: Function StTimeToDateTime( T : TStTime ) : TDateTime

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5898: Function Convert2ByteDate( TwoByteDate : Word) : TStDate
5899: Function Convert4ByteDate( FourByteDate : TStDate) : Word
5900:
5901: Procedure SIRegister_StDateSt(CL: TPSPascalCompiler);
5902: Function DateStringHMStoAstJD( const Picture, DS : string; H, M, S, Epoch : integer) : Double
5903: Function MonthToString( const Month : Integer) : string
5904: Function DateStringToStDate( const Picture, S : string; Epoch : Integer) : TStDate
5905: Function DateStringToDMY(const Picture,S:string; Epoch:Integer; var D, M, Y : Integer):Boolean
5906: Function StDateToDateString( const Picture : string; const Julian : TStDate; Pack : Boolean):string
5907: Function DayOfWeekToString( const WeekDay : TStDayType) : string
5908: Function DMYtoDateString(const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string);
5909: Function CurrentDateString( const Picture : string; Pack : Boolean) : string
5910: Function CurrentTimeString( const Picture : string; Pack : Boolean) : string
5911: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer) : Boolean
5912: Function TimeStringToStTime( const Picture, S : string) : TStTime
5913: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5914: Function StTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5915: Function DateStringIsBlank( const Picture, S : string) : Boolean
5916: Function InternationalDate( ForceCentury : Boolean) : string
5917: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean) : string
5918: Function InternationalTime( ShowSeconds : Boolean) : string
5919: Procedure ResetInternationalInfo
5920:
5921: procedure SIRegister_StBase(CL: TPSPascalCompiler);
5922: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer) : Boolean
5923: Function AnsiUpperCaseShort32( const S : string) : string
5924: Function AnsiCompareTextShort32( const S1, S2 : string) : Integer
5925: Function AnsiCompareStrShort32( const S1, S2 : string) : Integer
5926: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer) : Longint
5927: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
5928: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte)
5929: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal)
5930: Function Upcase( C : AnsiChar) : AnsiChar
5931: Function LoCase( C : AnsiChar) : AnsiChar
5932: Function CompareLetterSets( Set1, Set2 : Longint) : Cardinal
5933: Function CompStruct( const S1, S2, Size : Cardinal) : Integer
5934: Function Search(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
5935: Function StSearch(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5936: Function SearchUC(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5937: Function IsOrInheritsFrom( Root, Candidate : TClass) : boolean
5938: Procedure RaiseContainerError( Code : longint)
5939: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const)
5940: Function ProductOverflow( A, B : LongInt) : Boolean
5941: Function StNewStr( S : string) : PShortString
5942: Procedure StDisposeStr( PS : PShortString)
5943: Procedure VallongInt( S : ShortString; var LI : Longint; var ErrorCode : integer)
5944: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer)
5945: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer)
5946: Procedure RaiseStError( ExceptionClass : EStExceptionClass; Code : LongInt)
5947: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt)
5948: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string)
5949:
5950: procedure SIRegister_usvd(CL: TPSPascalCompiler);
5951: begin
5952: Procedure SV_Decomp( A : TMatrix; Lb, Ub1, Ub2 : Integer; S : TVector; V : TMatrix)
5953: Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float)
5954: Procedure SV_Solve(U:TMatrix; S:TVector;V:TMatrix;B:TVector;Lb,Ub1,Ub2:Integer;X:TVector);
5955: Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ub1, Ub2 : Integer; A : TMatrix)
5956: Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int;
5957: end;
5958:
5959: *****unit unit ; StMath Package of SysTools*****
5960: Function IntPowerS( Base : Extended; Exponent : Integer) : Extended
5961: Function PowerS( Base, Exponent : Extended) : Extended
5962: Function StInvCos( X : Double) : Double
5963: Function StInvSin( Y : Double) : Double
5964: Function StInvTan2( X, Y : Double) : Double
5965: Function StTan( A : Double) : Double
5966: Procedure DumpException; ///unit StExpEng;
5967: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
5968:
5969: *****unit unit ; StCRC Package of SysTools*****
5970: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
5971: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
5972: Function Adler32OfFile( FileName : AnsiString) : LongInt
5973: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
5974: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
5975: Function Crc16OfFile( FileName : AnsiString) : Cardinal
5976: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
5977: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
5978: Function Crc32OfFile( FileName : AnsiString) : LongInt
5979: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
5980: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
5981: Function InternetSumOfFile( FileName : AnsiString) : Cardinal
5982: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
5983: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
5984: Function Kermit16OfFile( FileName : AnsiString) : Cardinal
5985:
5986: *****unit unit ; StBCD Package of SysTools*****

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5987: Function AddBcd( const B1, B2 : TbcdS) : TbcdS
5988: Function SubBcd( const B1, B2 : TbcdS) : TbcdS
5989: Function MulBcd( const B1, B2 : TbcdS) : TbcdS
5990: Function DivBcd( const B1, B2 : TbcdS) : TbcdS
5991: Function ModBcd( const B1, B2 : TbcdS) : TbcdS
5992: Function NegBcd( const B : TbcdS) : TbcdS
5993: Function AbsBcd( const B : TbcdS) : TbcdS
5994: Function FracBcd( const B : TbcdS) : TbcdS
5995: Function IntBcd( const B : TbcdS) : TbcdS
5996: Function RoundDigitsBcd( const B : TbcdS; Digits : Cardinal) : TbcdS
5997: Function RoundPlacesBcd( const B : TbcdS; Places : Cardinal) : TbcdS
5998: Function ValBcd( const S : string) : TbcdS
5999: Function LongBcd( L : LongInt) : TbcdS
6000: Function ExtBcd( E : Extended) : TbcdS
6001: Function ExpBcd( const B : TbcdS) : TbcdS
6002: Function LnBcd( const B : TbcdS) : TbcdS
6003: Function IntPowBcd( const B : TbcdS; E : LongInt) : TbcdS
6004: Function PowBcd( const B, E : TbcdS) : TbcdS
6005: Function SqrtBcd( const B : TbcdS) : TbcdS
6006: Function CmpBcd( const B1, B2 : TbcdS) : Integer
6007: Function EqDigitsBcd( const B1, B2 : TbcdS; Digits : Cardinal) : Boolean
6008: Function EqPlacesBcd( const B1, B2 : TbcdS; Places : Cardinal) : Boolean
6009: Function IsIntBcd( const B : TbcdS) : Boolean
6010: Function TruncBcd( const B : TbcdS) : LongInt
6011: Function BcdExt( const B : TbcdS) : Extended
6012: Function RoundBcd( const B : TbcdS) : LongInt
6013: Function StrBcd( const B : TbcdS; Width, Places : Cardinal) : string
6014: Function StrExpBcd( const B : TbcdS; Width : Cardinal) : string
6015: Function FormatBcd( const Format : string; const B : TbcdS) : string
6016: Function StrGeneralBcd( const B : TbcdS) : string
6017: Function FloatFormBcd( const Mask : string; B : TbcdS; const LtCurr, RtCurr : string; Sep, DecPt : AnsiChar) : string
6018: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte)
6019:
6020: ////*****unit unit ; StTxtDat; TStTextDataRecordSet Package of SysTools*****
6021: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings)
6022: Function StFieldTypeToStr( FieldType : TStSchemaFieldType) : AnsiString
6023: Function StStrToFieldType( const S : AnsiString) : TStSchemaFieldType
6024: Function StDeEscape( const EscStr : AnsiString) : Char
6025: Function StDoEscape( Delim : Char) : AnsiString
6026: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char) : AnsiString
6027: Function AnsiHashText( const S : string; Size : Integer) : Integer
6028: Function AnsiHashStr( const S : string; Size : Integer) : Integer
6029: Function AnsiELFHashText( const S : string; Size : Integer) : Integer
6030: Function AnsiELFHashStr( const S : string; Size : Integer) : Integer
6031:
6032: ////*****unit unit ; StNetCon Package of SysTools*****
6033: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6034:   Constructor Create( AOwner : TComponent)
6035:   Function Connect : DWord
6036:   Function Disconnect : DWord
6037:   RegisterProperty('Password', 'String', iptrw);
6038:   Property('UserName', 'String', iptrw);
6039:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6040:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6041:   Property('LocalDevice', 'String', iptrw);
6042:   Property('ServerName', 'String', iptrw);
6043:   Property('ShareName', 'String', iptrw);
6044:   Property('OnConnect', 'TNotifyEvent', iptrw);
6045:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6046:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6047:   Property('OnDisconnect', 'TNotifyEvent', iptrw);
6048:   Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6049:   Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6050: end;
6051: ////*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6052: / /153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6053: Procedure InitializeCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6054: Procedure EnterCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6055: Procedure LeaveCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6056: Function InitializeCriticalSectionAndSpinCount( var
  lpCriticalSection : TRTLCriticalSection; dwSpinCount : DWord) : BOOL;
6057: Function SetCriticalSectionSpinCount( var lpCriticalSection : TRTLCriticalSection; dwSpinCount : DWord) : DWord;
6058: Function TryEnterCriticalSection( var lpCriticalSection : TRTLCriticalSection) : BOOL
6059: Procedure DeleteCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6060: Function GetThreadContext( hThread : THandle; var lpContext : TContext) : BOOL
6061: Function SetThreadContext( hThread : THandle; const lpContext : TContext) : BOOL
6062: Function SuspendThread( hThread : THandle) : DWord
6063: Function ResumeThread( hThread : THandle) : DWord
6064: Function CreateThread2( ThreadFunc : TThreadFunction2; thrId : DWord) : THandle
6065: Function GetCurrentThread : THandle
6066: Procedure ExitThread( dwExitCode : DWord)
6067: Function TerminateThread( hThread : THandle; dwExitCode : DWord) : BOOL
6068: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWord) : BOOL
6069: Procedure EndThread( ExitCode : Integer);
6070: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWord) : DWord
6071: Function MakeProcInstance( Proc : FARPROC; Instance : THandle) : FARPROC
6072: Procedure FreeProcInstance( Proc : FARPROC)
6073: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWord)
6074: Function DisableThreadLibraryCalls( hLibModule : HMODULE) : BOOL

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6075: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6076: Procedure ParallelJob1( ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6077: Procedure
ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Pointer;AParam:Pointer;ASafeSection:boolean);
6078: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection: boolean);
6079: Function CreateParallelJob(ASelf:TObject;ATarget:Pointer;AParam:Pointer;ASafeSection:boolean):TParallelJob;
6080: Function CreateParallelJob1(ATarget:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6081: Function CurrentParallelJobInfo : TParallelJobInfo
6082: Function ObtainParallelJobInfo : TParallelJobInfo
6083:
6084: *****unit uPSI_JclMime;
6085: Function MimeEncodeString( const S : AnsiString) : AnsiString
6086: Function MimeDecodeString( const S : AnsiString) : AnsiString
6087: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream)
6088: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream)
6089: Function MimeEncodedSize( const I : Cardinal) : Cardinal
6090: Function MimeDecodedSize( const I : Cardinal) : Cardinal
6091: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer)
6092: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6093: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : Cardinal
6094: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Cardinal;const
ByteBufferSpace:Cardinal): Cardinal;
6095:
6096: *****unit uPSI_JclPrint;
6097: Procedure DirectPrint( const Printer, Data : string)
6098: Procedure SetPrinterPixelsPerInch
6099: Function GetPrinterResolution : TPoint
6100: Function CharFitsWithinDots( const Text : string; const Dots : Integer) : Integer
6101: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect)
6102:
6103:
6104: //*****unit uPSI_ShLwApi;*****
6105: Function StrChr( lpStart : PChar; wMatch : WORD) : PChar
6106: Function StrChrI( lpStart : PChar; wMatch : WORD) : PChar
6107: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6108: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6109: Function StrCSpn( lpStr_, lpSet : PChar) : Integer
6110: Function StrCSpnI( lpStr1, lpSet : PChar) : Integer
6111: Function StrDup( lpSrch : PChar) : PChar
6112: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT) : PChar
6113: Function StrFormatKBSize( qdw : Dword; szBuf : PChar; uiBufSize : UINT) : PChar
6114: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6115: Function StrIsIntlEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6116: Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6117: Function StrPBrk( psz, pszSet : PChar) : PChar
6118: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD) : PChar
6119: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD) : PChar
6120: Function StrRStrI( lpSource, lpLast, lpSrch : PChar) : PChar
6121: Function StrSpn( psz, pszSet : PChar) : Integer
6122: Function StrStr( lpFirst, lpSrch : PChar) : PChar
6123: Function StrStrI( lpFirst, lpSrch : PChar) : PChar
6124: Function StrToInt( lpSrch : PChar) : Integer
6125: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer) : BOOL
6126: Function StrTrim( psz : PChar; pszTrimChars : PChar) : BOOL
6127: Function ChrCmpI( w1, w2 : WORD) : BOOL
6128: Function ChrCmpIA( w1, w2 : WORD) : BOOL
6129: Function ChrCmpIW( w1, w2 : WORD) : BOOL
6130: Function StrIntlEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6131: Function StrIntlEqNI( s1, s2 : PChar; nChar : Integer) : BOOL
6132: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer) : PChar
6133: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6134: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6135: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6136: SZ_CONTENTTYPE_HTMLA, 'String').SetString( 'text/html
6137: SZ_CONTENTTYPE_HTMLW, 'String').SetString( 'text/html
6138: SZ_CONTENTTYPE_HTML, 'string').SetString( SZ_CONTENTTYPE_HTMLA);
6139: SZ_CONTENTTYPE_CDFA, 'String').SetString( 'application/x-cdf
6140: SZ_CONTENTTYPE_CDFW, 'String').SetString( 'application/x-cdf
6141: SZ_CONTENTTYPE_CDF, 'string').SetString( SZ_CONTENTTYPE_CDFA);
6142: Function PathIsHTMLFile( pszPath : PChar) : BOOL
6143: STIF_DEFAULT, 'LongWord').SetUInt( $00000000);
6144: STIF_SUPPORT_HEX, 'LongWord').SetUInt( $00000001);
6145: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6146: Function StrNCpy( psz1, psz2 : PChar; cchMax : Integer) : PChar
6147: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6148: Function PathAddBackslash( pszPath : PChar) : PChar
6149: Function PathAddExtension( pszPath : PChar; pszExt : PChar) : BOOL
6150: Function PathAppend( pszPath : PChar; pMore : PChar) : BOOL
6151: Function PathBuildRoot( szRoot : PChar; iDrive : Integer) : PChar
6152: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar) : BOOL
6153: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar) : PChar
6154: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT) : BOOL
6155: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD) : BOOL
6156: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar) : Integer
6157: Function PathFileExists( pszPath : PChar) : BOOL
6158: Function PathFindExtension( pszPath : PChar) : PChar
6159: Function PathFindFileName( pszPath : PChar) : PChar
6160: Function PathFindNextComponent( pszPath : PChar) : PChar

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6161: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar) : BOOL
6162: Function PathGetArgs( pszPath : PChar) : PChar
6163: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6164: Function PathIsLFNFileSpec( lpName : PChar) : BOOL
6165: Function PathGetCharType( ch : Char) : UINT
6166: GCT_INVALID, 'LongWord').SetUInt( $0000);
6167: GCT_LFNCHAR, 'LongWord').SetUInt( $0001);
6168: GCT_SHORTCHAR, 'LongWord').SetUInt( $0002);
6169: GCT_WILD, 'LongWord').SetUInt( $0004);
6170: GCT_SEPARATOR, 'LongWord').SetUInt( $0008);
6171: Function PathGetDriveNumber( pszPath : PChar) : Integer
6172: Function PathIsDirectory( pszPath : PChar) : BOOL
6173: Function PathIsDirectoryEmpty( pszPath : PChar) : BOOL
6174: Function PathIsFileSpec( pszPath : PChar) : BOOL
6175: Function PathIsPrefix( pszPrefix, pszPath : PChar) : BOOL
6176: Function PathIsRelative( pszPath : PChar) : BOOL
6177: Function PathIsRoot( pszPath : PChar) : BOOL
6178: Function PathIsSameRoot( pszPath1, pszPath2 : PChar) : BOOL
6179: Function PathIsUNC( pszPath : PChar) : BOOL
6180: Function PathIsNetworkPath( pszPath : PChar) : BOOL
6181: Function PathIsUNCServer( pszPath : PChar) : BOOL
6182: Function PathIsUNCServerShare( pszPath : PChar) : BOOL
6183: Function PathIsContentType( pszPath, pszContentType : PChar) : BOOL
6184: Function PathIsURL( pszPath : PChar) : BOOL
6185: Function PathMakePretty( pszPath : PChar) : BOOL
6186: Function PathMatchSpec( pszFile, pszSpec : PChar) : BOOL
6187: Function PathParseIconLocation( pszIconFile : PChar) : Integer
6188: Procedure PathQuoteSpaces( lpsz : PChar)
6189: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6190: Procedure PathRemoveArgs( pszPath : PChar)
6191: Function PathRemoveBackslash( pszPath : PChar) : PChar
6192: Procedure PathRemoveBlanks( pszPath : PChar)
6193: Procedure PathRemoveExtension( pszPath : PChar)
6194: Function PathRemoveFileSpec( pszPath : PChar) : BOOL
6195: Function PathRenameExtension( pszPath : PChar; pszExt : PChar) : BOOL
6196: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT) : BOOL
6197: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar)
6198: Function PathSkipRoot( pszPath : PChar) : PChar
6199: Procedure PathStripPath( pszPath : PChar)
6200: Function PathStripToRoot( pszPath : PChar) : BOOL
6201: Procedure PathUnquoteSpaces( lpsz : PChar)
6202: Function PathMakeSystemFolder( pszPath : PChar) : BOOL
6203: Function PathUnmakeSystemFolder( pszPath : PChar) : BOOL
6204: Function PathIsSystemFolder( pszPath : PChar; dwAttrb : DWORD) : BOOL
6205: Procedure PathUndecorate( pszPath : PChar)
6206: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT) : BOOL
6207: URL_SCHEME_INVALID, 'LongInt').SetInt( - 1);
6208: URL_SCHEME_UNKNOWN, 'LongInt').SetInt( 0);
6209: URL_SCHEME_FTP, 'LongInt').SetInt( 1);
6210: URL_SCHEME_HTTP, 'LongInt').SetInt( 2);
6211: URL_SCHEME_GOPHER, 'LongInt').SetInt( 3);
6212: URL_SCHEME_MAILTO, 'LongInt').SetInt( 4);
6213: URL_SCHEME_NEWS, 'LongInt').SetInt( 5);
6214: URL_SCHEME_NNTP, 'LongInt').SetInt( 6);
6215: URL_SCHEME_TELNET, 'LongInt').SetInt( 7);
6216: URL_SCHEME_WAIS, 'LongInt').SetInt( 8);
6217: URL_SCHEME_FILE, 'LongInt').SetInt( 9);
6218: URL_SCHEME_MK, 'LongInt').SetInt( 10);
6219: URL_SCHEME_HTTPS, 'LongInt').SetInt( 11);
6220: URL_SCHEME_SHELL, 'LongInt').SetInt( 12);
6221: URL_SCHEME_SNEWS, 'LongInt').SetInt( 13);
6222: URL_SCHEME_LOCAL, 'LongInt').SetInt( 14);
6223: URL_SCHEME_JAVASCRIPT, 'LongInt').SetInt( 15);
6224: URL_SCHEME_VBSCRIPT, 'LongInt').SetInt( 16);
6225: URL_SCHEME_ABOUT, 'LongInt').SetInt( 17);
6226: URL_SCHEME_RES, 'LongInt').SetInt( 18);
6227: URL_SCHEME_MAXVALUE, 'LongInt').SetInt( 19);
6228: URL_SCHEME, 'Integer
6229: URL_PART_NONE, 'LongInt').SetInt( 0);
6230: URL_PART_SCHEME, 'LongInt').SetInt( 1);
6231: URL_PART_HOSTNAME, 'LongInt').SetInt( 2);
6232: URL_PART_USERNAME, 'LongInt').SetInt( 3);
6233: URL_PART_PASSWORD, 'LongInt').SetInt( 4);
6234: URL_PART_PORT, 'LongInt').SetInt( 5);
6235: URL_PART_QUERY, 'LongInt').SetInt( 6);
6236: URL_PART, 'DWORD
6237: URLIS_URL, 'LongInt').SetInt( 0);
6238: URLIS_OPAQUE, 'LongInt').SetInt( 1);
6239: URLIS_NOHISTORY, 'LongInt').SetInt( 2);
6240: URLIS_FILEURL, 'LongInt').SetInt( 3);
6241: URLIS_APPLIABLE, 'LongInt').SetInt( 4);
6242: URLIS_DIRECTORY, 'LongInt').SetInt( 5);
6243: URLIS_HASQUERY, 'LongInt').SetInt( 6);
6244: TUrIIs, 'DWORD
6245: URL_UNESCAPE, 'LongWord').SetUInt( $10000000);
6246: URL_ESCAPE_UNSAFE, 'LongWord').SetUInt( $20000000);
6247: URL_FLUGGABLE_PROTOCOL, 'LongWord').SetUInt( $40000000);
6248: URL_WININET_COMPATIBILITY, 'LongWord').SetUInt( DWORD ( $80000000 ));
6249: URL_DONT_ESCAPE_EXTRA_INFO, 'LongWord').SetUInt( $02000000);

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6250: URL_ESCAPE_SPACES_ONLY', 'LongWord').SetUInt( $04000000);
6251: URL_DONT_SIMPLIFY', 'LongWord').SetUInt( $08000000);
6252: URL_NO_META', 'LongWord').SetUInt( URL_DONT_SIMPLIFY);
6253: URL_UNESCAPE_INPLACE', 'LongWord').SetUInt( $00100000);
6254: URL_CONVERT_IF_DOSPATH', 'LongWord').SetUInt( $00200000);
6255: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord').SetUInt( $00400000);
6256: URL_INTERNAL_PATH', 'LongWord').SetUInt( $00800000);
6257: URL_FILE_USE_PATHURL', 'LongWord').SetUInt( $00010000);
6258: URL_ESCAPE_PERCENT', 'LongWord').SetUInt( $00001000);
6259: URL_ESCAPE_SEGMENT_ONLY', 'LongWord').SetUInt( $00002000);
6260: URL_PARTFLAG_KEEPScheme', 'LongWord').SetUInt( $00000001);
6261: URL_APPLY_DEFAULT', 'LongWord').SetUInt( $00000001);
6262: URL_APPLY_GUESSScheme', 'LongWord').SetUInt( $00000002);
6263: URL_APPLY_GUESSFILE', 'LongWord').SetUInt( $00000004);
6264: URL_APPLY_FORCEAPPLY', 'LongWord').SetUInt( $00000008);
6265: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL) : Integer
6266: Function UrlCombine(pszBase, pszRelative: PChar; pszCombin: PChar; out pcchCombin: DWORD; dwFlags: DWORD) : HRESULT;
6267: Function UrlCanonicalize(pszUrl: PChar; pszCanonicalized: PChar; pcchCanonic: DWORD; dwFlags: DWORD) : HRESULT;
6268: Function UrlIsOpaque( pszURL : PChar) : BOOL
6269: Function UrlIsNoHistory( pszURL : PChar) : BOOL
6270: Function UrlIsFileUrl( pszURL : PChar) : BOOL
6271: Function UrlIs( pszUrl : PChar; UrlIs : TUrlIs) : BOOL
6272: Function UrlGetLocation( psz1 : PChar) : PChar
6273: Function UrlUnescape( pszUrl, pszUnescaped : PChar; pcchUnescaped: DWORD; dwFlags : DWORD) : HRESULT
6274: Function UrlEscape(pszUrl : PChar; pszEscaped : PChar; pcchEscaped: DWORD; dwFlags : DWORD) : HRESULT
6275: Function UrlCreateFromPath(pszPath: PChar; pszUrl : PChar; pcchUrl : DWORD; dwFlags : DWORD) : HRESULT
6276: Function PathCreateFromUrl(pszUrl: PChar; pszPath: PChar; pcchPath: DWORD; dwFlags : DWORD) : HRESULT
6277: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD) : HRESULT
6278: Function UrlGetPart(pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwPart, dwFlags : DWORD) : HRESULT
6279: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD) : HRESULT
6280: Function HashData( pbData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD) : HRESULT
6281: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD) : HRESULT
6282: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD) : HRESULT
6283: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6284: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6285: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar) : DWORD
6286: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD) : Longint
6287: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName: PChar; var
pcchValueName: DWORD; pdwType: DWORD; pvData : __Pointer; pcbData : DWORD) : Longint
6288: Function SHQueryInfoKey( hKey: HKEY; pcSubKeys, pcchMaxSubKeyLen, pcVal, pcchMaxValueNameLen: DWORD) : Longint;
6289: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD) : DWORD
6290: Function SHRegGetPath(hKey: HKEY; pcszSubKey, pcszValue : PChar; pszPath: PChar; dwFlags : DWORD) : DWORD
6291: Function SHRegSetPath( hKey: HKEY; pcszSubKey, pcszValue, pcszPath : PChar; dwFlags : DWORD) : DWORD
6292: SHREGDEL_DEFAULT', 'LongWord').SetUInt( $00000000);
6293: SHREGDEL_HKCU', 'LongWord').SetUInt( $00000001);
6294: SHREGDEL_HKLM', 'LongWord').SetUInt( $00000010);
6295: SHREGDEL_BOTH', 'LongWord').SetUInt( $00000011);
6296: SHREGENUM_DEFAULT', 'LongWord').SetUInt( $00000000);
6297: SHREGENUM_HKCU', 'LongWord').SetUInt( $00000001);
6298: SHREGENUM_HKLM', 'LongWord').SetUInt( $00000010);
6299: SHREGENUM_BOTH', 'LongWord').SetUInt( $00000011);
6300: SHREGSET_HKCU', 'LongWord').SetUInt( $00000001);
6301: SHREGSET_FORCE_HKCU', 'LongWord').SetUInt( $00000002);
6302: SHREGSET_HKLM', 'LongWord').SetUInt( $00000004);
6303: SHREGSET_FORCE_HKLM', 'LongWord').SetUInt( $00000008);
6304: TSHRegDelFlags', 'DWORD
6305: TSHRegEnumFlags', 'DWORD
6306: HUSKEY', 'THandle
6307: ASSOCF_INIT_NOREMAPCLSID', 'LongWord').SetUInt( $00000001);
6308: ASSOCF_INIT_BYEXENAME', 'LongWord').SetUInt( $00000002);
6309: ASSOCF_OPEN_BYEXENAME', 'LongWord').SetUInt( $00000002);
6310: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord').SetUInt( $00000004);
6311: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord').SetUInt( $00000008);
6312: ASSOCF_NOUSERSETTINGS', 'LongWord').SetUInt( $00000010);
6313: ASSOCF_NOTRUNCATE', 'LongWord').SetUInt( $00000020);
6314: ASSOCF_VERIFY', 'LongWord').SetUInt( $00000040);
6315: ASSOCF_REMAPRUNDLL', 'LongWord').SetUInt( $00000080);
6316: ASSOCF_NOFIXUPS', 'LongWord').SetUInt( $00000100);
6317: ASSOCF_IGNOREBASECLASS', 'LongWord').SetUInt( $00000200);
6318: ASSOCF', 'DWORD
6319: ASSOCSTR_COMMAND', 'LongInt').SetInt( 1);
6320: ASSOCSTR_EXECUTABLE', 'LongInt').SetInt( 2);
6321: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt').SetInt( 3);
6322: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt').SetInt( 4);
6323: ASSOCSTR_NOOPEN', 'LongInt').SetInt( 5);
6324: ASSOCSTR_SHELLNEWVALUE', 'LongInt').SetInt( 6);
6325: ASSOCSTR_DECOMMAND', 'LongInt').SetInt( 7);
6326: ASSOCSTR_DDEIFEXEC', 'LongInt').SetInt( 8);
6327: ASSOCSTR_DDEAPPLICATION', 'LongInt').SetInt( 9);
6328: ASSOCSTR_DDETOPIC', 'LongInt').SetInt( 10);
6329: ASSOCSTR_INFOTIP', 'LongInt').SetInt( 11);
6330: ASSOCSTR_MAX', 'LongInt').SetInt( 12);
6331: ASSOCSTR', 'DWORD
6332: ASSOCKEY_SHELLEXCCLASS', 'LongInt').SetInt( 1);
6333: ASSOCKEY_APP', 'LongInt').SetInt( 2);
6334: ASSOCKEY_CLASS', 'LongInt').SetInt( 3);
6335: ASSOCKEY_BASECLASS', 'LongInt').SetInt( 4);
6336: ASSOCKEY_MAX', 'LongInt').SetInt( 5);
6337: ASSOCKEY', 'DWORD

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6338: ASSOCDATA_MSIDSCRIPTOR', 'LongInt').SetInt( 1);
6339: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt').SetInt( 2);
6340: ASSOCDATA_QUERYCLASSSTORE', 'LongInt').SetInt( 3);
6341: ASSOCDATA_HASPERUSERASSOC', 'LongInt').SetInt( 4);
6342: ASSOCDATA_MAX', 'LongInt').SetInt( 5);
6343: ASSOCDATA', 'DWORD
6344: ASSOCENUM_NONE', 'LongInt').SetInt( 0);
6345: ASSOCENUM', 'DWORD
6346: SID_IQueryAssociations', 'String').SetString( '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6347: SHACF_DEFAULT', 'LongWord').SetUInt( $00000000);
6348: SHACF_FILESYSTEM', 'LongWord').SetUInt( $00000001);
6349: SHACF_URLHISTORY', 'LongWord').SetUInt( $00000002);
6350: SHACF_URLMRU', 'LongWord').SetUInt( $00000004);
6351: SHACF_USETAB', 'LongWord').SetUInt( $00000008);
6352: SHACF_FILESYS_ONLY', 'LongWord').SetUInt( $00000010);
6353: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord').SetUInt( $10000000);
6354: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord').SetUInt( $20000000);
6355: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord').SetUInt( $40000000);
6356: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord').SetUInt( DWORD ( $80000000 ));
6357: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6358: Procedure SHSetThreadRef( punk : IUnknown)
6359: Procedure SHGetThreadRef( out ppunk : IUnknown)
6360: CTF_INSIST', 'LongWord').SetUInt( $00000001);
6361: CTF_THREAD_REF', 'LongWord').SetUInt( $00000002);
6362: CTF_PROCESS_REF', 'LongWord').SetUInt( $00000004);
6363: CTF_COINIT', 'LongWord').SetUInt( $00000008);
6364: Function SHCreateShellPalette( hdc : HDC; HPALETTE
6365: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD)
6366: Function ColorHLSToRGB( wHue, wLuminance, wSaturation : WORD) : TColorRef
6367: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean) : TColorRef
6368: Function GetSysColorBrush( nIndex : Integer) : HBRUSH
6369: Function DrawFocusRect( hdc : HDC; const lprc : TRect) : BOOL
6370: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH) : Integer
6371: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH) : Integer
6372: Function InvertRect( hdc : HDC; const lprc : TRect) : BOOL
6373: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer) : BOOL
6374: Function SetRectEmpty( var lprc : TRect) : BOOL
6375: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect) : BOOL
6376: Function InflateRect( var lprc : TRect; dx, dy : Integer) : BOOL
6377: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect) : BOOL
6378: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect) : BOOL
6379:
6380: Function InitializeFlatSB( hWnd : HWND) : Bool
6381: Procedure UninitializeFlatSB( hWnd : HWND)
6382: FlatSB_GetScrollProp( p1 : HWND; propIndex : Integer; p3 : PInteger) : Bool
6383: Function FlatSB_SetScrollProp( p1 : HWND; index : Integer; newValue : Integer; p4 : Bool) : Bool
6384: Function GET_APPCOMMAND_LPARAM( lParam : Integer) : Word //of JvWin32
6385: Function GET_DEVICE_LPARAM( lParam : Integer) : Word
6386: Function GET_MOUSEORKEY_LPARAM( lParam : Integer) : Integer
6387: Function GET_FLAGS_LPARAM( lParam : Integer) : Word
6388: Function GET_KEYSTATE_LPARAM( lParam : Integer) : Word
6389:
6390:
6391: // ***** 204 unit uPSI_ShellAPI;
6392: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT) : UINT
6393: Function DragQueryPoint( Drop : HDROP; var Point : TPoint) : BOOL
6394: Procedure DragFinish( Drop : HDROP)
6395: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL)
6396: Function ShellExecute(hWnd:HWND;Operation,FileName,Parameters,Directory:PChar;ShowCmd:Integer):HINST
6397: Function FindExecutable( FileName, Directory : PChar; Result : PChar) : HINST
6398: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON) : Integer
6399: Function DuplicateIcon( hInst : HINST; Icon : HICON) : HICON
6400: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word) : HICON
6401: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT) : HICON
6402: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData) : UINT
6403: Function DoEnvironmentSubst( szString : PChar; cbString : UINT) : DWORD
6404: Function ExtractIconEx(lpszFile:PChar;nIconIndex:Int;var phiconLarge,phiconSmall:HICON;nIcons:UINT):UINT;
6405: Procedure SHFreeNameMappings( hNameMappings : THandle)
6406:
6407: DLLVER_PLATFORM_WINDOWS', 'LongWord').SetUInt( $00000001);
6408: DLLVER_PLATFORM_NT', 'LongWord').SetUInt( $00000002);
6409: DLLVER_MAJOR_MASK', 'LongWord').SetUInt( Int64 ( $FFFF000000000000 ));
6410: DLLVER_MINOR_MASK', 'LongWord').SetUInt( Int64 ( $0000FFFF00000000 ));
6411: DLLVER_BUILD_MASK', 'LongWord').SetUInt( Int64 ( $00000000FFFF0000 ));
6412: DLLVER_QFE_MASK', 'LongWord').SetUInt( Int64 ( $000000000000FFFF ));
6413: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word) : Int64
6414: Function SimpleXMLEncode( const S : string) : string
6415: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean)
6416: Function XMLEncode( const S : string) : string
6417: Function XMLDecode( const S : string) : string
6418: Function EntityEncode( const S : string) : string
6419: Function EntityDecode( const S : string) : string
6420:
6421: procedure RIRegister_CPort_Routines(S: TPSExec);
6422: Procedure EnumComPorts( Ports : TStrings)
6423: Procedure ListComPorts( Ports : TStrings)
6424: Procedure ComPorts( Ports : TStrings) //Alias to Arduino
6425: Function GetComPorts: TStringlist;
6426: Function StrToBaudRate( Str : string) : TBaudRate

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6427: Function StrToStopBits( Str : string) : TStopBits
6428: Function StrToDataBits( Str : string) : TDataBits
6429: Function StrToParity( Str : string) : TParityBits
6430: Function StrToFlowControl( Str : string) : TFlowControl
6431: Function BaudRateToStr( BaudRate : TBaudRate) : string
6432: Function StopBitsToStr( StopBits : TStopBits) : string
6433: Function DataBitsToStr( DataBits : TDataBits) : string
6434: Function ParityToStr( Parity : TParityBits) : string
6435: Function FlowControlToStr( FlowControl : TFlowControl) : string
6436: Function ComErrorsToStr( Errors : TComErrors) : string
6437:
6438: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wParamFilterMin, wParamFilterMax : UINT) : BOOL
6439: Function DispatchMessage( const lpMsg : TMsg) : Longint
6440: Function TranslateMessage( const lpMsg : TMsg) : BOOL
6441: Function SetMessageQueue( cMessagesMax : Integer) : BOOL
6442: Function PeekMessage( var lpMsg: TMsg; hWnd: HWND; wParamFilterMin, wParamFilterMax, wRemoveMsg: UINT): BOOL
6443: Function GetMessagePos : DWORD
6444: Function GetMessageTime : Longint
6445: Function GetMessageExtraInfo : Longint
6446: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean) : string
6447: Procedure JAddToRecentDocs( const Filename : string)
6448: Procedure ClearRecentDocs
6449: Function ExtractIconFromFile( FileName : string; Index : Integer) : HICON
6450: Function CreateShellLink( const AppName, Desc : string; Dest : string) : string
6451: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo)
6452: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo)
6453: Function RecycleFile( FileToRecycle : string) : Boolean
6454: Function JCopyFile( FromFile, ToDir : string) : Boolean
6455: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType) : UINT
6456: Function ShellObjectTypeConstToEnum( ShellObjectType : UINT) : TShellObjectType
6457: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6458: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6459: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6460: Function EnumServicesStatusExA( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6461: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6462: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6463: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR) : BOOL
6464:
6465: ***** unit uPSI_JclPeImage;
6466:
6467: Function IsValidPeFile( const FileName : TFileName) : Boolean
6468: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders) : Boolean
6469: Function PeCreateNameHintTable( const FileName : TFileName) : Boolean
6470: Function PeRebaseImage( const ImageName : TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD) : TJclRebaseImageInfo
6471: Function PeVerifyChecksum( const FileName : TFileName) : Boolean
6472: Function PeClearChecksum( const FileName : TFileName) : Boolean
6473: Function PeUpdateChecksum( const FileName : TFileName) : Boolean
6474: Function PeDoesExportFunction( const FileName : TFileName; const
FuncName : string; Options : TJclSmartCompOptions) : Bool;
6475: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions) : Boolean
6476: Function PeIsExportFunctionForwarded( const FileName : TFileName; const FunctionName : string; Options : TJclSmartCompOptions) : Boolean
6477: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions) : Boolean
6478: Function PeDoesImportLibrary( const FileName : TFileName; const
LibraryName : string; Recursive : Boolean) : Boolean;
6479: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean) : Boolean
6480: Function PeImportedFunctions( const FileName : TFileName; const FunctionsList : TStrings; const LibraryName : string; IncludeLibNames : Boolean) : Boolean
6481: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6482: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6483: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6484: Function PeResourceKindNames( const FileName : TFileName; ResourceType : TJclPeResourceKind; const NamesList : TStrings) : Boolean
6485: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings) : Boolean
6486: Function PeBorDependedPackages( const FileName : TFileName; PackagesList : TStrings; FullPathName, Descript : Bool) : Bool;
6487: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings) : Boolean;
6488: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings) : Boolean;
6489: Function PeCreateRequiredImportList( const FileName : TFileName; RequiredImportsList : TStrings) : Boolean;
6490: // Function PeMapImgNtHeaders( const BaseAddress : Pointer) : PImageNtHeaders
6491: // Function PeMapImgLibraryName( const BaseAddress : Pointer) : string
6492: // Function PeMapImgSections( const NtHeaders : PImageNtHeaders) : PImageSectionHeader
6493: // Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string) : PImageSectionHeader
6494: // Function PeMapImgExportedVariables( const Module : HMODULE; const VariablesList : TStrings) : Boolean
6495: // Function PeMapImgResolvePackageThunk( Address : Pointer) : Pointer

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6496: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):
    _Pointer;
6497: SIRegister_TJclPeSectionStream(CL);
6498: SIRegister_TJclPeMapImgHookItem(CL);
6499: SIRegister_TJclPeMapImgHooks(CL);
6500: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer;var
NtHeaders:TImageNtHeaders):Boolean
6501: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6502: Type TJclBorUmSymbolKind','(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6503: TJclBorUmSymbolModifier','( smQualified, smLinkProc )
6504: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6505: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6506: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6507: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6508: Function PeBorUnmangleName( const Name : string; var Unmangled : string; var Description :
    TJclBorUmDescription; var BasePos : Integer) : TJclBorUmResult;
6509: Function PeBorUnmangleName1(const Name:string;var Unmangled:string;var
    Description:TJclBorUmDescription):TJclBorUmResult;
6510: Function PeBorUnmangleName2( const Name : string; var Unmangled : string) : TJclBorUmResult;
6511: Function PeBorUnmangleName3( const Name : string) : string;
6512: Function PeIsNameMangled( const Name : string) : TJclPeUmResult
6513: Function PeUnmangleName( const Name : string; var Unmangled : string) : TJclPeUmResult
6514:
6515:
6516: ***** SysTools uPSI_StSystem; *****
6517: Function StCopyFile( const SrcPath, DestPath : AnsiString) : Cardinal
6518: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString) : AnsiString
6519: Function DeleteVolumeLabel( Drive : Char) : Cardinal
6520: //Procedure EnumerateDirectories(const
StartDir:AnsiString;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc;
6521: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
IncludeItem:TIncludeItemFunc;
6522: Function FileHandlesLeft( MaxHandles : Cardinal) : Cardinal
6523: Function FileMatchesMask( const FileName, FileMask : AnsiString) : Boolean
6524: Function FileTimeToStDateTime( FileTime : LongInt) : TStDateTimeRec
6525: Function FindNthSlash( const Path : AnsiString; n : Integer) : Integer
6526: Function FlushOsBuffers( Handle : Integer) : Boolean
6527: Function GetCurrentUser : AnsiString
6528: Function GetDiskClass( Drive : Char) : DiskClass
6529: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,
    SectorsPerCluster:Cardinal):Bool;
6530: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double; var
    DiskSize:Double):Boolean;
6531: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var
    DiskSize:Comp):Boolean;
6532: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6533: Function getDiskSpace2(const path: String; index: integer): int64;
6534: Function GetFileCreateDate( const FileName : AnsiString) : TDateTime
6535: Function StGetFileLastAccess( const FileName : AnsiString) : TDateTime
6536: Function GetFileLastModify( const FileName : AnsiString) : TDateTime
6537: Function GetHomeFolder( aForceSlash : Boolean) : AnsiString
6538: Function GetLongPath( const APath : AnsiString) : AnsiString
6539: Function GetMachineName : AnsiString
6540: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType) : Cardinal
6541: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean) : AnsiString
6542: Function GetShortPath( const APath : AnsiString) : AnsiString
6543: Function GetSystemFolder( aForceSlash : Boolean) : AnsiString
6544: Function GetTempFolder( aForceSlash : boolean) : AnsiString
6545: Function StGetWindowsFolder( aForceSlash : boolean) : AnsiString
6546: Function GetWorkingFolder( aForceSlash : boolean) : AnsiString
6547: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer) : TStDateTimeRec
6548: Function StIsDirectory( const DirName : AnsiString) : Boolean
6549: Function IsDirectoryEmpty( const S : AnsiString) : Integer
6550: Function IsDriveReady( Drive : Char) : Boolean
6551: Function IsFile( const FileName : AnsiString) : Boolean
6552: Function IsFileArchive( const S : AnsiString) : Integer
6553: Function IsFileHidden( const S : AnsiString) : Integer
6554: Function IsFileReadOnly( const S : AnsiString) : Integer
6555: Function IsFileSystem( const S : AnsiString) : Integer
6556: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer) : TStDateTimeRec
6557: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char) : Cardinal
6558: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer) : Boolean
6559: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType) : Cardinal
6560: Procedure SplitPath( const APath : AnsiString; Parts : TStrings)
6561: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec) : LongInt
6562: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec) : Longint
6563: Function UnixTimeToStDateTime( UnixTime : Longint) : TStDateTimeRec
6564: Function ValidDrive( Drive : Char) : Boolean
6565: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char) : Cardinal
6566:
6567: *****unit uPSI_JellANMan;*****
6568: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
const PasswordNeverExpires : Boolean) : Boolean
6569: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
const PasswordNeverExpires : Boolean) : Boolean
6570: Function DeleteAccount( const Servername, Username : string) : Boolean
6571: Function DeleteLocalAccount( Username : string) : Boolean
6572: Function CreateLocalGroup( const Server, Groupname, Description : string) : Boolean
6573: Function CreateGlobalGroup( const Server, Groupname, Description : string) : Boolean

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6574: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6575: Function GetLocalGroups( const Server : string; const Groups : TStringList ) : Boolean
6576: Function GetGlobalGroups( const Server : string; const Groups : TStringList ) : Boolean
6577: Function LocalGroupExists( const Group : string ) : Boolean
6578: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6579: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6580: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6581: Procedure ParseAccountName( const QualifiedName : string; var Domain, Username : string )
6582: Function IsLocalAccount( const AccountName : string ) : Boolean
6583: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6584: Function GetRandomString( NumChar : cardinal ) : string
6585:
6586: //*****unit uPSI_cUtils;*****
6587: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )
6588: Function cIsWinNT : boolean
6589: Procedure cFilesFromWildcard( Directory, Mask : string; var Files: TStringList; Subdirs, ShowDirs,
Multitasking: Boolean;
6590: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6591: Function cRunAndGetOutput( Cmd, WorkDir: string; ErrFunc: TErrFunc; LineOutputFunc: TLineOutputFunc;
CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean ) : string
6592: Function cGetShortName( FileName : string ) : string
6593: Procedure cShowError( Msg : String )
6594: Function cCommaStrToStr( s : string; formatstr : string ) : string
6595: Function cIncludeQuoteIfSpaces( s : string ) : string
6596: Function cIncludeQuoteIfNeeded( s : string ) : string
6597: Procedure cLoadFileFromResource( const FileName : string; ms : TMemoryStream )
6598: Function cValidateFile( const FileName: string; const WorkPath: string; const CheckDirs: boolean ): string;
6599: Function cBuildFilter( var value : string; const FLTStyle : TFilterSet ) : boolean;
6600: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6601: Function cCodeInstoStr( s : string ) : string
6602: Function cStrtoCodeIns( s : string ) : string
6603: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6604: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6605: Procedure cStrToPoint( var pt : TPoint; value : string )
6606: Function cPointtoStr( const pt : TPoint ) : string
6607: Function cListtoStr( const List : TStringList ) : string
6608: Function ListtoStr( const List : TStringList ) : string
6609: Procedure StrtoList( s : string; const List : TStringList; const delimiter : char )
6610: Procedure cStrtoList( s : string; const List : TStringList; const delimiter : char )
6611: Function cGetFileType( const FileName : string ) : TUnitType
6612: Function cGetExTyp( const FileName : string ) : TExUnitType
6613: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6614: Function cExpandFileto( const FileName : string; const BasePath : string ) : string
6615: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6616: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6617: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6618: Function cGenMakePath( FileName : String ) : String;
6619: Function cGenMakePath2( FileName : String ) : String
6620: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean ) : String;
6621: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6622: Function cCalcMod( Count : Integer ) : Integer
6623: Function cGetVersionString( FileName : string ) : string
6624: Function cCheckChangeDir( var Dir : string ) : boolean
6625: Function cGetAssociatedProgram( const Extension: string; var Filename, Description: string ): boolean
6626: Function cIsNumeric( s : string ) : boolean
6627: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6628: Function AttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6629: Function GetFileType( const FileName : string ) : TUnitType
6630: Function Atoi( const aStr : string ) : integer
6631: Function Itoa( const aInt : integer ) : string
6632:
6633:
6634: procedure SIRegister_cHTTPUtils( CL: TPSPascalCompiler );
6635: begin
6636:   FindClass( 'TObject', 'EHTTP
6637:   FindClass( 'TObject', 'EHTTPParser
6638:   //AnsiCharSet', 'set of AnsiChar
6639:   AnsiStringArray', 'array of AnsiString
6640:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6641:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6642:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH
6643:   + 'TTPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6644:   + 'CustomMinVersion : Integer; end
6645:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt
6646:   + 'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL
6647:   + 'language, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU
6648:   + 'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC
6649:   + 'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h
6650:   + 'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi
6651:   + 'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges,
6652:   + ' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSinc
6653:   + 'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon
6654:   + 'nection, hntOrigin, hntKeepAlive )
6655:   THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom : AnsiString; end
6656:   THTTPCustomHeader', 'record FieldName : AnsiString; FieldValue :
6657:   + ' AnsiString; end
6658:   //PHTTPCustomHeader', '^THTTPCustomHeader // will not work
6659:   THTTPContentLengthEnum', '( hcltNone, hcltByteCount )
6660:   THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount: Int64; end

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6661: //PHTTPEndContentLength', '^HTTPEndContentLength // will not work
6662: THTTPEndContentLength', '( hctmCustom, hctmText, hctmImage )
6663: THTTPEndContentLengthEnum', '( hctNone, hctCustomParts, hctCustomStri'
6664: + 'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6665: + 'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6666: + 'cationJSON, hctApplicationOctetStream, hctApplicationJavaScript, hctApplic'
6667: + 'ationCustom, hctAudioCustom, hctVideoCustom )
6668: THTTPEndContentLength', 'record Value : THTTPEndContentLengthEnum; CustomM'
6669: + 'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray;'
6670: + ' CustomStr : AnsiString; end
6671: THTTPEndDateFieldEnum', '( hdnNone, hdnCustom, hdnParts, hdnDateTime )
6672: THTTPEndDateField', 'record Value : THTTPEndDateFieldEnum; DayOfWeek : '
6673: + ' Integer; Day : integer; Month : integer; Year : integer; Hour : integer; '
6674: + 'Min : integer; Sec : integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6675: + 'String; DateTime : TDateTime; Custom : AnsiString; end
6676: THTTPEndTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )
6677: THTTPEndTransferEncoding', 'record Value : THTTPEndTransferEncodingEnu'
6678: + 'm; Custom : AnsiString; end
6679: THTTPEndConnectionFieldEnum', '( hcfNone, hcfCustom, hcfClose, hcfKeepAlive )
6680: THTTPEndConnectionField', 'record Value : THTTPEndConnectionFieldEnum;'
6681: + ' Custom : AnsiString; end
6682: THTTPEndAgeFieldEnum', '( hafNone, hafCustom, hafAge )
6683: THTTPEndAgeField', 'record Value: THTTPEndAgeFieldEnum; Age : Int64; Custom:AnsiString; end
6684: THTTPEndCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )
6685: THTTPEndCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6686: + ', hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )
6687: THTTPEndCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6688: + ', hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6689: + 'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )
6690: THTTPEndCacheControlField', 'record Value : THTTPEndCacheControlFieldEnum; end
6691: THTTPEndContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6692: + 'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )
6693: THTTPEndContentEncoding', 'record Value:THTTPEndContentEncodingEnum;Custom:AnsiString; end;
6694: THTTPEndContentEncodingFieldEnum', '( hcefNone, hcefList )
6695: THTTPEndContentEncodingField', 'record Value : THTTPEndContentEncoding'
6696: + 'FieldEnum; List : array of THTTPEndContentEncoding; end
6697: THTTPEndRetryAfterFieldEnum', '( hrafNone, hrafCustom, hrafDate, hrafSeconds )
6698: THTTPEndRetryAfterField', 'record Value : THTTPEndRetryAfterFieldEnum;'
6699: + ' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6700: THTTPEndContentRangeFieldEnum', '( hcrfNone, hcrfCustom, hcrfByteRange )
6701: THTTPEndContentRangeField', 'record Value : THTTPEndContentRangeFieldE'
6702: + 'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6703: THTTPEndSetCookieFieldEnum', '( hscfNone, hscfDecoded, hscfCustom )
6704: THTTPEndSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6705: THTTPEndSetCookieCustomFieldArray', 'array of THTTPEndSetCookieCustomField
6706: THTTPEndSetCookieField', 'record Value : THTTPEndSetCookieFieldEnum; D'
6707: + 'omain : AnsiString; Path : AnsiString; Expires : THTTPEndDateField; MaxAge : '
6708: + 'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPEndSetCookie'
6709: + 'CustomFieldArray; Custom : AnsiString; end
6710: //PHTTPEndSetCookieField', '^HTTPEndSetCookieField // will not work
6711: THTTPEndSetCookieFieldArray', 'array of THTTPEndSetCookieField
6712: THTTPEndCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )
6713: THTTPEndCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6714: //PHTTPEndCookieFieldEntry', '^HTTPEndCookieFieldEntry // will not work
6715: THTTPEndCookieFieldEntryArray', 'array of THTTPEndCookieFieldEntry
6716: THTTPEndCookieField', 'record Value : THTTPEndCookieFieldEnum; Entries'
6717: + ' : THTTPEndCookieFieldEntryArray; Custom : AnsiString; end
6718: THTTPEndCommonHeaders', 'record TransferEncoding : THTTPEndTransferEnc'
6719: + 'oding; ContentType : THTTPEndContentType; ContentLength : THTTPEndContentLength;'
6720: + ' Connection : THTTPEndConnectionField; ProxyConnection : THTTPEndConnectionField'
6721: + '; Date : THTTPEndDateField; ContentEncoding : THTTPEndContentEncodingField; end
6722: THTTPEndCustomHeaders', 'array of THTTPEndCustomHeader
6723: //THTTPEndFixedHeaders', 'array[THTTPEndHeaderNameEnum] of AnsiString
6724: THTTPEndFixedHeaders', 'array[0..42] of AnsiString
6725: THTTPEndMethodEnum', '( hmnNone, hmnCustom, hmnGET, hmnPUT, hmnPOST, hmnC'
6726: + 'ONNECT, hmnHEAD, hmnDELETE, hmnOPTIONS, hmnTRACE )
6727: THTTPEndMethod', 'record Value : THTTPEndMethodEnum; Custom : AnsiString; end
6728: THTTPEndRequestStartLine', 'record Method : THTTPEndMethod; URI : Ansi'
6729: + 'String; Version : THTTPEndVersion; end
6730: THTTPEndRequestHeader', 'record CommonHeaders : THTTPEndCommonHeaders;'
6731: + ' FixedHeaders : THTTPEndFixedHeaders; CustomHeaders : THTTPEndCustomHeaders; Co'
6732: + 'kie : THTTPEndCookieField; IfModifiedSince : THTTPEndDateField; IfUnmodifiedSinc'
6733: + 'e : THTTPEndDateField; end
6734: //PHTTPEndRequestHeader', '^HTTPEndRequestHeader // will not work
6735: THTTPEndRequest', 'record StartLine : THTTPEndRequestStartLine; Header'
6736: + ' : THTTPEndRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6737: THTTPEndResponseStartLineMessage', '( hslmNone, hslmCustom, hslmOK )
6738: THTTPEndResponseStartLine', 'record Version : THTTPEndVersion; Code : '
6739: + 'Integer; Msg : THTTPEndResponseStartLineMessage; CustomMsg : AnsiString; end
6740: THTTPEndResponseHeader', 'record CommonHeaders : THTTPEndCommonHeaders'
6741: + '; FixedHeaders : THTTPEndFixedHeaders; CustomHeaders : THTTPEndCustomHeaders; Co'
6742: + 'okies : THTTPEndSetCookieFieldArray; Expires : THTTPEndDateField; LastModified : '
6743: + ' THTTPEndDateField; Age : THTTPEndAgeField; end
6744: //PHTTPEndResponseHeader', '^HTTPEndResponseHeader // will not work
6745: THTTPEndResponse', 'record StartLine : THTTPEndResponseStartLine; Head'
6746: + 'er : THTTPEndResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6747: Function HTTPMessageHasContent( const H : THTTPEndCommonHeaders ) : Boolean
6748: Procedure InitHTTPRequest( var A : THTTPEndRequest )
6749: Procedure InitHTTPResponse( var A : THTTPEndResponse )

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6750: Procedure ClearHTTPVersion( var A : THTTPVersion)
6751: Procedure ClearHTTPContentLength( var A : THTTPContentLength)
6752: Procedure ClearHTTPContentType( var A : THTTPContentType)
6753: Procedure ClearHTTPDateField( var A : THTTPDateField)
6754: Procedure ClearHTTPTransferEncoding( var A : THTTPTransferEncoding)
6755: Procedure ClearHTTPConnectionField( var A : THTTPConnectionField)
6756: Procedure ClearHTTPPageField( var A : THTTPPageField)
6757: Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding)
6758: Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField)
6759: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField)
6760: Procedure ClearHTTPSetCookieField( var A : THTTPSetCookieField)
6761: Procedure ClearHTTPCommonHeaders( var A : THTTPCommonHeaders)
6762: //Procedure ClearHTTFFixedHeaders( var A : THTTFFixedHeaders)
6763: Procedure ClearHTTPCustomHeaders( var A : THTTPCustomHeaders)
6764: Procedure ClearHTTPCookieField( var A : THTTPCookieField)
6765: Procedure ClearHTTPMethod( var A : THTTPMethod)
6766: Procedure ClearHTTPRequestStartLine( var A : THTTPRequestStartLine)
6767: Procedure ClearHTTPRequestHeader( var A : THTTPRequestHeader)
6768: Procedure ClearHTTPRequest( var A : THTTPRequest)
6769: Procedure ClearHTTPResponseStartLine( var A : THTTPResponseStartLine)
6770: Procedure ClearHTTPResponseHeader( var A : THTTPResponseHeader)
6771: Procedure ClearHTTPResponse( var A : THTTPResponse)
6772: THTTPStringOption', '( hsoNone )
6773: THTTPStringOptions', 'set of THTTPStringOption
6774: FindClass('TOBJECT'),'TAnsiStringBuilder
6775:
6776: Procedure BuildStrHTTPVersion(const A:THTTPVersion; const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6777: Procedure BuildStrHTTPContentLengthValue( const A : THTTPContentLength; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6778: Procedure BuildStrHTTPContentLength( const A : THTTPContentLength; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6779: Procedure BuildStrHTTPContentTypeValue( const A : THTTPContentType; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6780: Procedure BuildStrHTTPContentType(const A:THTTPContentType;const B:TAnsiStringBuilder; const
P:THTTPStringOptions)
6781: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
B : TAnsiStringBuilder; const P : THTTPStringOptions)
6782: Procedure BuildStrHTTPDateFieldValue( const A : THTTPDateField; const B : TAnsiStringBuilder; const P :
THTTPStringOptions)
6783: Procedure BuildStrHTTPDateField(const A:THTTPDateField;const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6784: Procedure BuildStrHTTPTransferEncodingValue( const A : THTTPTransferEncoding; const B :
TAnsiStringBuilder; const P : THTTPStringOptions)
6785: Procedure BuildStrHTTPTransferEncoding( const A : THTTPTransferEncoding; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6786: Procedure BuildStrHTTPContentRangeField( const A : THTTPContentRangeField; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6787: Procedure BuildStrHTTPConnectionFieldValue( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6788: Procedure BuildStrHTTPConnectionField( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6789: Procedure BuildStrHTTPPageField(const A:THTTPPageField;const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6790: Procedure BuildStrHTTPContentEncoding( const A : THTTPContentEncoding; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6791: Procedure BuildStrHTTPContentEncodingField(const A:THTTPContentEncodingField;const
B:TAnsiStringBuilder;const P:THTTPStringOptions)
6792: Procedure BuildStrHTTPProxyConnectionField(const A : THTTPConnectionField; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6793: Procedure BuildStrHTTPCommonHeaders( const A : THTTPCommonHeaders; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6794: Procedure BuildStrHTTFFixedHeaders(const A:THTTFFixedHeaders;const B:TAnsiStrBuilder;const
P:THTTPStringOptions)
6795: Procedure BuildStrHTTPCustomHeaders( const A : THTTPCustomHeaders; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6796: Procedure BuildStrHTTPSetCookieFieldValue( const A : THTTPSetCookieField; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6797: Procedure BuildStrHTTPCookieFieldValue( const A : THTTPCookieField; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6798: Procedure BuildStrHTTPCookieField(const A:THTTPCookieField;const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6799: Procedure BuildStrHTTPMethod( const A : THTTPMethod; const B : TAnsiStringBuilder; const P :
THTTPStringOptions)
6800: Procedure BuildStrHTTPRequestStartLine( const A : THTTPRequestStartLine; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6801: Procedure BuildStrHTTPRequestHeader(const A:THTTPRequestHeader;const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6802: Procedure BuildStrHTTPRequest( const A : THTTPRequest; const B : TAnsiStringBuilder; const P :
THTTPStringOptions)
6803: Procedure BuildStrHTTPResponseCookieFieldArray( const A : THTTPSetCookieFieldArray; const B :
TAnsiStringBuilder; const P : THTTPStringOptions)
6804: Procedure BuildStrHTTPResponseStartLine(const A:THTTPResponseStartLine;const B:TAnsiStrBldr;const P
THTTPStrOptions);
6805: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const
P:THTTPStringOptions);
6806: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const
P:THTTPStringOptions);
6807: Function HTTPContentTypeValueToStr( const A : THTTPContentType) : AnsiString

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6808: Function HTTPSetCookieFieldValueToStr( const A : THTTPSetCookieField) : AnsiString
6809: Function HTTPCookieFieldValueToStr( const A : THTTPCookieField) : AnsiString
6810: Function HTTPMethodToStr( const A : THTTPMethod) : AnsiString
6811: Function HTTPRequestToStr( const A : THTTPRequest) : AnsiString
6812: Function HTTPResponseToStr( const A : THTTPResponse) : AnsiString
6813: Procedure PrepareCookie( var A:THTTPCookieField;const B:THTTPSetCookieFieldArray; const
Domain:AnsiString; const Secure : Boolean);
6814: THTTPParserHeaderParseFunc', 'Function ( const HeaderName : THTT
6815: +PHeaderNameEnum; const HeaderPtr : ___Pointer) : Boolean
6816: SIRegister_THTTPParser(CL);
6817: FindClass('TOBJECT'),'THTTPContentDecoder
6818: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder)
6819: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsize )
6820: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6821: + ' crcsContentCRLF, crcsTrailer, crcsFinished )
6822: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String)
6823: SIRegister_THTTPContentDecoder(CL);
6824: THTTPContentReaderMechanism', '( hcrnEvent, hcrnString, hcrnStream, hcrnFile )
6825: FindClass('TOBJECT'),'THTTPContentReader
6826: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader)
6827: THTTPContentReaderLogEvent', 'Procedure(const Sender:THTTPContentReader;const LogMsg:String;const
LogLevel:Int;
6828: SIRegister_THTTPContentReader(CL);
6829: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6830: FindClass('TOBJECT'),'THTTPContentWriter
6831: THTTPContentWriterLogEvent', 'Procedure (const Sender : THTTPContentWriter;const LogMsg:AnsiString);
6832: SIRegister_THTTPContentWriter(CL);
6833: Procedure SelfTestCHTTPUtils
6834: end;
6835:
6836: (*-----*)
6837: procedure SIRegister_cTLSUtils(CL: TPSPascalCompiler);
6838: begin
6839: 'TLSLibraryVersion','String').SetString( '1.00
6840: 'TLSError_None','LongInt').SetInt( 0);
6841: 'TLSError_InvalidBuffer','LongInt').SetInt( 1);
6842: 'TLSError_InvalidParameter','LongInt').SetInt( 2);
6843: 'TLSError_InvalidCertificate','LongInt').SetInt( 3);
6844: 'TLSError_InvalidState','LongInt').SetInt( 4);
6845: 'TLSError_DecodeError','LongInt').SetInt( 5);
6846: 'TLSError_BadProtocol','LongInt').SetInt( 6);
6847: Function TLSErrorMessage( const TLSError : Integer) : String
6848: SIRegister_ETLSError(CL);
6849: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6850: TTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6851: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion)
6852: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion)
6853: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion)
6854: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion)
6855: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion) : Boolean
6856: Function IsSSL2( const A : TTLSProtocolVersion) : Boolean
6857: Function IsSSL3( const A : TTLSProtocolVersion) : Boolean
6858: Function IsTLS10( const A : TTLSProtocolVersion) : Boolean
6859: Function IsTLS11( const A : TTLSProtocolVersion) : Boolean
6860: Function IsTLS12( const A : TTLSProtocolVersion) : Boolean
6861: Function IsTLS10OrLater( const A : TTLSProtocolVersion) : Boolean
6862: Function IsTLS11OrLater( const A : TTLSProtocolVersion) : Boolean
6863: Function IsTLS12OrLater( const A : TTLSProtocolVersion) : Boolean
6864: Function IsFutureTLSVersion( const A : TTLSProtocolVersion) : Boolean
6865: Function IsKnownTLSVersion( const A : TTLSProtocolVersion) : Boolean
6866: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion) : String
6867: Function TLSProtocolVersionName( const A : TTLSProtocolVersion) : String
6868: PTLSRandom', '^TLSRandom // will not work
6869: Procedure InitTLSRandom( var Random : TTLSRandom)
6870: Function TLSRandomToStr( const Random : TLSRandom) : AnsiString
6871: 'TLSSessionIDMaxLen','LongInt').SetInt( 32);
6872: Procedure InitTLSSessionID( var SessionID : TLSSessionID; const A : AnsiString)
6873: Function EncodeTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TLSSessionID):Int;
6874: Function DecodeTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TLSSessionID):Int;
6875: TLSSignatureAndHashAlgorithm', 'record Hash : TTLSHashAlgorithm'
6876: + ' Signature : TTLSSignatureAlgorithm; end
6877: // PTLSSignatureAndHashAlgorithm', '^TTLSSignatureAndHashAlgorithm +// will not work
6878: TLSSignatureAndHashAlgorithmArray', 'array of TLSSignatureAndHashAlgorithm
6879: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_
6880: + 'DSS, tlskeaDHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6881: TTLSMACAlgorithm', '( tlsmaNone, tlsmaNULL, tlsmaHMAC_MD5, tlsma'
6882: + 'HMAC_SHA1, tlsmaHMAC_SHA256, tlsmaHMAC_SHA384, tlsmaHMAC_SHA512 )
6883: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I
6884: + 'integer; Supported : Boolean; end
6885: PTLSMacAlgorithmInfo', '^TTLSMacAlgorithmInfo // will not work
6886: 'TLS_MAC_MAXDIGESTSIZE','LongInt').SetInt( 64);
6887: TTLSPRFAlgorithm', '( tlpshaSHA256 )
6888: Function tlp_MD5( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6889: Function tlp_SHA1( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6890: Function tlp_SHA256( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6891: Function tlp_SHA512( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6892: Function tlp10PRF( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6893: Function tlp12PRF_SHA256( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6894: Function tlp12PRF_SHA512( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString

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6895:  Function TLSPRF(const ProtoVersion:TTLSProtocolVersion;const Secret,ALabel,Seed:AStrng;const
        Size:Int):AStrng;
6896:  Function tls10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
        Size:Integer):AnsiString
6897:  Function tls12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
        Size:Int):AnsiString;
6898:  Function tls12SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
        Size:Int):AnsiString;
6899:  Function TLSKeyBlock( const ProtocolVersion : TTLSProtocolVersion; const MasterSecret, ServerRandom,
        ClientRandom : AnsiString; const Size : Integer ) : AnsiString
6900:  Function tls10MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6901:  Function tls12SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6902:  Function tls12SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
6903:  Function TLSPMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
        ServerRandom:AnsiString) : AnsiString
6904:  TLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6905:  +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6906:  +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
6907:  Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
        IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TLSKeys)
6908:  Procedure GenerateFinalTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const IsExportable :
        Boolean; const ExpandedKeyBits : Integer; const ServerRandom, ClientRandom : AnsiString; var TLSKeys :
        TLSKeys)
6909:  'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt')).SetInt( 16384 - 1);
6910:  'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt')).SetInt( 16384 + 1024);
6911:  Procedure SelfTestcTLSUtils
6912:  end;
6913:
6914:  (*-----*)
6915:  procedure SIRegister_Reversi(CL: TPSPascalCompiler);
6916:  begin
6917:    sPosData', 'record corner : boolean; square2x2 : boolean; edge : '
6918:    +' boolean; stable : integer; internal : integer; disks : integer; mx : integer; my : integer; end
6919:    // pBoard', '^tBoard // will not work
6920:    Function rCalculateData( cc : byte; cx, cy : integer) : sPosData
6921:    Function rCheckMove( color : byte; cx, cy : integer) : integer
6922:    //Function rDoStep( data : pBoard) : word
6923:    Function winExecAndWait( const sAppPath : string; wVisible : word) : boolean
6924:  end;
6925:
6926:  procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
6927:  begin
6928:    Function InEditMode( ADataSet : TDataSet) : Boolean
6929:    Function CheckDataSource( ADataSource : TDataSource) : Boolean;
6930:    Function CheckDataSourceel(ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
6931:    Function GetFieldText( AField : TField) : String
6932:  end;
6933:
6934:  procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
6935:  begin
6936:    TPrintMode', '( pmPrint, pmPreview, pmPageCount )
6937:    TMyPrintRange', '( prAll, prSelected )
6938:    TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
6939:    +'ded, ssDateTime, ssTime, ssCustom )
6940:    TSortDirection', '( sdAscending, sdDescending )
6941:    TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
6942:    TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integ'
6943:    +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
6944:    TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
6945:    TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
6946:    SIRegister_TSortOptions(CL);
6947:    SIRegister_TPrintOptions(CL);
6948:    TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
6949:    SIRegister_TSortedList(CL);
6950:    TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
6951:    TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
6952:    TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
6953:    TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
6954:    +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
6955:    SIRegister_TFontSetting(CL);
6956:    SIRegister_TFontList(CL);
6957:    CL.AddTypeS(TFormatDrawCellEvent', 'Procedure ( Sender : TObject; Col, Row : '
6958:    +' integer;State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool);
6959:    TSetFilterEvent', 'Procedure ( ARows : TStringList; var Accept : Boolean)
6960:    TSearchEvent', 'Procedure ( ARows : TStringList; var Accept : Boolean)
6961:    TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
6962:    TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
6963:    TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
6964:    TEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
6965:    TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer'
6966:    +'r; var SortStyle : TSortStyle)
6967:    TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow : '
6968:    +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
6969:    SIRegister_TSortGrid(CL);
6970:    Function ExtendedCompare( const Str1, Str2 : String) : Integer
6971:    Function NormalCompare( const Str1, Str2 : String) : Integer
6972:    Function DateTimeCompare( const Str1, Str2 : String) : Integer
6973:    Function NumericCompare( const Str1, Str2 : String) : Integer
6974:    Function TimeCompare( const Str1, Str2 : String) : Integer

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6975: //Function Compare( Item1, Item2 : Pointer) : Integer
6976: end;
6977:
6978: ***** procedure Register_IB(CL: TPSPascalCompiler);
6979: Procedure IBAlloc( var P, OldSize, NewSize : Integer)
6980: Procedure IBError( ErrMess : TIBClientError; const Args : array of const)
6981: Procedure IBDataBaseError
6982: Function StatusVector : PISC_STATUS
6983: Function StatusVectorArray : PStatusVector
6984: Function CheckStatusVector( ErrorCodes : array of ISC_STATUS) : Boolean
6985: Function StatusVectorAsText : string
6986: Procedure SetIBDataBaseErrorMessages( Value : TIBDataBaseErrorMessages)
6987: Function GetIBDataBaseErrorMessages : TIBDataBaseErrorMessages
6988:
6989:
6990: //*****unit uPSI_BoldUtils;*****
6991: Function CharCount( c : char; const s : string) : integer
6992: Function BoldNamesEqual( const name1, name2 : string) : Boolean
6993: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
6994: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
6995: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string) : string
6996: Function BoldTrim( const S : string) : string
6997: Function BoldIsPrefix( const S, Prefix : string) : Boolean
6998: Function BoldStrEqual( P1, P2 : PChar; Len : integer) : Boolean
6999: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer) : Boolean
7000: Function BoldAnsiEqual( const S1, S2 : string) : Boolean
7001: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer) : Boolean
7002: Function BoldCaseIndependentPos( const Substr, S : string) : Integer
7003: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings)
7004: Function CapitalisedToSpaced( Capitalised : String) : String
7005: Function SpacedToCapitalised( Spaced : String) : String
7006: Function BooleanToString( BoolValue : Boolean) : String
7007: Function StringToBoolean( StrValue : String) : Boolean
7008: Function GetUpperLimitForMultiplicity( const Multiplicity : String) : Integer
7009: Function GetLowerLimitForMultiplicity( const Multiplicity : String) : Integer
7010: Function StringListToVarArray( List : TStringList) : variant
7011: Function IsLocalMachine( const Machinename : WideString) : Boolean
7012: Function GetComputerNameStr : string
7013: Function TimeStampComp( const Time1, Time2 : TTimeStamp) : Integer
7014: Function BoldStrToDateFmt(const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7015: Function BoldDateToStrFmt(const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7016: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7017: Function BoldParseFormattedDate(const value:String;const formats:array of string; var
Date:TDateTime):Boolean;
7018: Procedure EnsureTrailing( var Str : String; ch : char)
7019: Function BoldDirectoryExists( const Name : string) : Boolean
7020: Function BoldForceDirectories( Dir : string) : Boolean
7021: Function BoldRootRegistryKey : string
7022: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7023: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings) : Integer
7024: Function LogicalAnd( A, B : Integer) : Boolean
7025: record TByHandleFileInformation dwFileAttributes : DWORD; '
7026: +ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7027: +': TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSiz'
7028: +eLow : DWORD; nNumberOfLinks : DWORD; nFileIndexHigh : DWORD; nFileIndexLow : DWORD; end
7029: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7030: Function IsFirstInstance : Boolean
7031: Procedure ActivateFirst( AString : PChar)
7032: Procedure ActivateFirstCommandLine
7033: function MakeAckPkt(const BlockNumber: Word): string;
7034: procedure SendError(UDPBase:TiUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrorString:
string);
7035: procedure SendError(UDPClient: TiUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7036: procedure SendError(UDPBase: TiUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7037: procedure SendError(UDPClient: TiUDPClient; E: Exception); overload;
7038: function IdStrToWord(const Value: String): Word;
7039: function IdWordToStr(const Value: Word): WordStr;
7040: Function HasInstructionSet( const InstructionSet : TCPUIInstructionSet) : Boolean
7041: Function CPUFeatures : TCPUFeatures
7042:
7043:
7044: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7045: begin
7046: AddTypeS('TXRTLBitIndex', 'Integer
7047: Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex) : Cardinal
7048: Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex) : Boolean
7049: Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7050: Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7051: Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7052: Function XRTLSwapHiLo16( X : Word) : Word
7053: Function XRTLSwapHiLo32( X : Cardinal) : Cardinal
7054: Function XRTLSwapHiLo64( X : Int64) : Int64
7055: Function XRTLROL32( A, S : Cardinal) : Cardinal
7056: Function XRTLROL32( A, S : Cardinal) : Cardinal
7057: Function XRTLROL16( A : Word; S : Cardinal) : Word
7058: Function XRTLROL16( A : Word; S : Cardinal) : Word
7059: Function XRTLROL8( A : Byte; S : Cardinal) : Byte
7060: Function XRTLROL8( A : Byte; S : Cardinal) : Byte
7061: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)

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7062: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7063: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer)
7064: Function XRTLPopulation( A : Cardinal ) : Cardinal
7065: end;
7066:
7067: Function XRTLURLDecode( const ASrc : WideString ) : WideString
7068: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7069: Function XRTLURINormalize( const AURI : WideString ) : WideString
7070: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
VPassword : WideString)
7071: Function XRTLExtractLongPathName(APath: string): string;
7072:
7073: procedure SIRegister_cFundamentUtils(CI: TPSPascalCompiler);
7074: begin
7075:   AddTypeS('Int8', 'ShortInt
7076:   AddTypeS('Int16', 'SmallInt
7077:   AddTypeS('Int32', 'LongInt
7078:   AddTypeS('UInt8', 'Byte
7079:   AddTypeS('UInt16', 'Word
7080:   AddTypeS('UInt32', 'LongWord
7081:   AddTypeS('UInt64', 'Int64
7082:   AddTypeS('Word8', 'UInt8
7083:   AddTypeS('Word16', 'UInt16
7084:   AddTypeS('Word32', 'UInt32
7085:   AddTypeS('Word64', 'UInt64
7086:   AddTypeS('LargeInt', 'Int64
7087:   AddTypeS('NativeInt', 'Integer
7088:   AddTypeS('NativeUInt', 'Cardinal
7089:   Const('BitsPerByte','LongInt').SetInt( 8);
7090:   Const('BitsPerWord','LongInt').SetInt( 16);
7091:   Const('BitsPerLongWord','LongInt').SetInt( 32);
7092:   //Const('BitsPerCardinal','LongInt').SetInt( BytesPerCardinal * 8);
7093:   //Const('BitsPerNativeWord','LongInt').SetInt( BytesPerNativeWord * 8);
7094:   Function MinI( const A, B : Integer ) : Integer
7095:   Function MaxI( const A, B : Integer ) : Integer
7096:   Function MinC( const A, B : Cardinal ) : Cardinal
7097:   Function MaxC( const A, B : Cardinal ) : Cardinal
7098:   Function SumClipI( const A, I : Integer ) : Integer
7099:   Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7100:   Function InByteRange( const A : Int64 ) : Boolean
7101:   Function InWordRange( const A : Int64 ) : Boolean
7102:   Function InLongWordRange( const A : Int64 ) : Boolean
7103:   Function InShortIntRange( const A : Int64 ) : Boolean
7104:   Function InSmallIntRange( const A : Int64 ) : Boolean
7105:   Function InLongIntRange( const A : Int64 ) : Boolean
7106:   AddTypeS('Bool8', 'ByteBool
7107:   AddTypeS('Bool16', 'WordBool
7108:   AddTypeS('Bool32', 'LongBool
7109:   AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7110:   AddTypeS('TCompareResultSet', 'set of TCompareResult
7111:   Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7112:   Const('MinSingle','Single').setExtended( 1.5E-45);
7113:   Const('MaxSingle','Single').setExtended( 3.4E+38);
7114:   Const('MinDouble','Double').setExtended( 5.0E-324);
7115:   Const('MaxDouble','Double').setExtended( 1.7E+308);
7116:   Const('MinExtended','Extended').setExtended(3.4E-4932);
7117:   Const('MaxExtended','Extended').setExtended(1.1E+4932);
7118:   Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807);
7119:   Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807);
7120:   Function MinF( const A, B : Float ) : Float
7121:   Function MaxF( const A, B : Float ) : Float
7122:   Function ClipF( const Value : Float; const Low, High : Float ) : Float
7123:   Function InSingleRange( const A : Float ) : Boolean
7124:   Function InDoubleRange( const A : Float ) : Boolean
7125:   Function InCurrencyRange( const A : Float ) : Boolean;
7126:   Function InCurrencyRange1( const A : Int64 ) : Boolean;
7127:   Function FloatExponentBase2( const A : Extended; var Exponent : Integer ) : Boolean
7128:   Function FloatExponentBase10( const A : Extended; var Exponent : Integer ) : Boolean
7129:   Function FloatIsInfinity( const A : Extended ) : Boolean
7130:   Function FloatIsNaN( const A : Extended ) : Boolean
7131:   Const('SingleCompareDelta','Extended').setExtended( 1.0E-34);
7132:   Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280);
7133:   Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400);
7134:   Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34);
7135:   Function FloatZero( const A : Float; const CompareDelta : Float ) : Boolean
7136:   Function FloatOne( const A : Float; const CompareDelta : Float ) : Boolean
7137:   Function FloatsEqual( const A, B : Float; const CompareDelta : Float ) : Boolean
7138:   Function FloatsCompare( const A, B : Float; const CompareDelta : Float ) : TCompareResult
7139:   Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5);
7140:   Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13);
7141:   Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17);
7142:   Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10);
7143:   Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double ) : Boolean
7144:   Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double): TCompareResult
7145:   Function cClearBit( const Value, BitIndex : LongWord ) : LongWord
7146:   Function cSetBit( const Value, BitIndex : LongWord ) : LongWord
7147:   Function cIsBitSet( const Value, BitIndex : LongWord ) : Boolean
7148:   Function cToggleBit( const Value, BitIndex : LongWord ) : LongWord
7149:   Function cIsHighBitSet( const Value : LongWord ) : Boolean

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7150: Function SetBitScanForward( const Value : LongWord) : Integer;
7151: Function SetBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7152: Function SetBitScanReverse( const Value : LongWord) : Integer;
7153: Function SetBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7154: Function ClearBitScanForward( const Value : LongWord) : Integer;
7155: Function ClearBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7156: Function ClearBitScanReverse( const Value : LongWord) : Integer;
7157: Function ClearBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7158: Function cReverseBits( const Value : LongWord) : LongWord;
7159: Function cReverseBits1( const Value : LongWord; const BitCount : Integer) : LongWord;
7160: Function cSwapEndian( const Value : LongWord) : LongWord;
7161: Function cTwosComplement( const Value : LongWord) : LongWord;
7162: Function RotateLeftBits16( const Value : Word; const Bits : Byte) : Word;
7163: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte) : LongWord;
7164: Function RotateRightBits16( const Value : Word; const Bits : Byte) : Word;
7165: Function RotateRightBits32( const Value : LongWord; const Bits : Byte) : LongWord;
7166: Function cBitCount( const Value : LongWord) : LongWord;
7167: Function cIsPowerOfTwo( const Value : LongWord) : Boolean;
7168: Function LowBitMask( const HighBitIndex : LongWord) : LongWord;
7169: Function HighBitMask( const LowBitIndex : LongWord) : LongWord;
7170: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord) : LongWord;
7171: Function SetBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord;
7172: Function ClearBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord;
7173: Function ToggleBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord;
7174: Function IsBitRangeSet( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean;
7175: Function IsBitRangeClear( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean;
7176: // AddTypeS('CharSet', 'set of AnsiChar
7177: AddTypeS('CharSet', 'set of Char      //!!!
7178: AddTypeS('AnsiCharSet', 'TCharSet
7179: AddTypeS('ByteSet', 'set of Byte
7180: AddTypeS('AnsiChar', 'Char
7181: // Function AsCharSet( const C : array of AnsiChar) : CharSet
7182: Function AsByteSet( const C : array of Byte) : ByteSet;
7183: Procedure ComplementChar( var C : CharSet; const Ch : Char);
7184: Procedure ClearCharSet( var C : CharSet);
7185: Procedure FillCharSet( var C : CharSet);
7186: Procedure ComplementCharSet( var C : CharSet);
7187: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet);
7188: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet);
7189: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet);
7190: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet);
7191: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet);
7192: Function IsSubSet( const A, B : CharSet) : Boolean;
7193: Function IsEqual( const A, B : CharSet) : Boolean;
7194: Function IsEmpty( const C : CharSet) : Boolean;
7195: Function IsComplete( const C : CharSet) : Boolean;
7196: Function cCharCount( const C : CharSet) : Integer;
7197: Procedure ConvertCaseInsensitive( var C : CharSet);
7198: Function CaseInsensitiveCharSet( const C : CharSet) : CharSet;
7199: Function IntRangeLength( const Low, High : Integer) : Int64;
7200: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer) : Boolean;
7201: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer) : Boolean;
7202: Function IntRangeHasElement( const Low, High, Element : Integer) : Boolean;
7203: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer) : Boolean;
7204: Function IntRangeIncludeElementRange( var Low, High : Integer; const LowElement, HighElement : Integer) : Boolean;
7205: Function CardRangeLength( const Low, High : Cardinal) : Int64;
7206: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal) : Boolean;
7207: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal) : Boolean;
7208: Function CardRangeHasElement( const Low, High, Element : Cardinal) : Boolean;
7209: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal) : Boolean;
7210: Function CardRangeIncludeElementRange( var Low, High : Cardinal; const LowElement, HighElement : Cardinal) : Boolean;
7211: AddTypeS('UnicodeChar', 'WideChar
7212: Function Compare( const I1, I2 : Boolean) : TCompareResult;
7213: Function Compare1( const I1, I2 : Integer) : TCompareResult;
7214: Function Compare2( const I1, I2 : Int64) : TCompareResult;
7215: Function Compare3( const I1, I2 : Extended) : TCompareResult;
7216: Function CompareA( const I1, I2 : AnsiString) : TCompareResult;
7217: Function CompareW( const I1, I2 : WideString) : TCompareResult;
7218: Function cSgn( const A : LongInt) : Integer;
7219: Function cSgn1( const A : Int64) : Integer;
7220: Function cSgn2( const A : Extended) : Integer;
7221: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )
7222: Function AnsiCharToInt( const A : AnsiChar) : Integer;
7223: Function WideCharToInt( const A : WideChar) : Integer;
7224: Function CharToInt( const A : Char) : Integer;
7225: Function IntToAnsiChar( const A : Integer) : AnsiChar;
7226: Function IntToWideChar( const A : Integer) : WideChar;
7227: Function IntToChar( const A : Integer) : Char;
7228: Function IsHexAnsiChar( const Ch : AnsiChar) : Boolean;
7229: Function IsHexWideChar( const Ch : WideChar) : Boolean;
7230: Function IsHexChar( const Ch : Char) : Boolean;
7231: Function HexAnsiCharToInt( const A : AnsiChar) : Integer;
7232: Function HexWideCharToInt( const A : WideChar) : Integer;
7233: Function HexCharToInt( const A : Char) : Integer;
7234: Function IntToUpperHexAnsiChar( const A : Integer) : AnsiChar;
7235: Function IntToUpperHexWideChar( const A : Integer) : WideChar;
7236: Function IntToUpperHexChar( const A : Integer) : Char;
7237: Function IntToLowerHexAnsiChar( const A : Integer) : AnsiChar;
7238: Function IntToLowerHexWideChar( const A : Integer) : WideChar;

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7239: Function IntToLowerHexChar( const A : Integer ) : Char
7240: Function IntToStringA( const A : Int64 ) : AnsiString
7241: Function IntToStringW( const A : Int64 ) : WideString
7242: Function IntToString( const A : Int64 ) : String
7243: Function UIntToStringA( const A : NativeUInt ) : AnsiString
7244: Function UIntToStringW( const A : NativeUInt ) : WideString
7245: Function UIntToString( const A : NativeUInt ) : String
7246: Function LongWordToStrA( const A : LongWord; const Digits : Integer ) : AnsiString
7247: Function LongWordToStrW( const A : LongWord; const Digits : Integer ) : WideString
7248: Function LongWordToStrU( const A : LongWord; const Digits : Integer ) : UnicodeString
7249: Function LongWordToStr( const A : LongWord; const Digits : Integer ) : String
7250: Function LongWordToHexA( const A : LongWord; const Digits : Integer; const UpperCase : Boolean ) : AnsiString;
7251: Function LongWordToHexW( const A : LongWord; const Digits : Integer; const UpperCase : Boolean ) : WideString;
7252: Function LongWordToHex( const A : LongWord; const Digits : Integer; const UpperCase : Boolean ) : String
7253: Function LongWordToOctA( const A : LongWord; const Digits : Integer ) : AnsiString
7254: Function LongWordToOctW( const A : LongWord; const Digits : Integer ) : WideString
7255: Function LongWordToOct( const A : LongWord; const Digits : Integer ) : String
7256: Function LongWordToBinA( const A : LongWord; const Digits : Integer ) : AnsiString
7257: Function LongWordToBinW( const A : LongWord; const Digits : Integer ) : WideString
7258: Function LongWordToBin( const A : LongWord; const Digits : Integer ) : String
7259: Function TryStringToInt64A( const S : AnsiString; out A : Int64 ) : Boolean
7260: Function TryStringToInt64W( const S : WideString; out A : Int64 ) : Boolean
7261: Function TryStringToInt64( const S : String; out A : Int64 ) : Boolean
7262: Function StringToInt64DefA( const S : AnsiString; const Default : Int64 ) : Int64
7263: Function StringToInt64DefW( const S : WideString; const Default : Int64 ) : Int64
7264: Function StringToInt64Def( const S : String; const Default : Int64 ) : Int64
7265: Function StringToInt64A( const S : AnsiString ) : Int64
7266: Function StringToInt64W( const S : WideString ) : Int64
7267: Function StringToInt64( const S : String ) : Int64
7268: Function TryStringToIntA( const S : AnsiString; out A : Integer ) : Boolean
7269: Function TryStringToIntW( const S : WideString; out A : Integer ) : Boolean
7270: Function TryStringToInt( const S : String; out A : Integer ) : Boolean
7271: Function StringToIntDefA( const S : AnsiString; const Default : Integer ) : Integer
7272: Function StringToIntDefW( const S : WideString; const Default : Integer ) : Integer
7273: Function StringToIntDef( const S : String; const Default : Integer ) : Integer
7274: Function StringToIntA( const S : AnsiString ) : Integer
7275: Function StringToIntW( const S : WideString ) : Integer
7276: Function StringToInt( const S : String ) : Integer
7277: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7278: Function TryStringToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7279: Function TryStringToLongWord( const S : String; out A : LongWord ) : Boolean
7280: Function StringToLongWordA( const S : AnsiString ) : LongWord
7281: Function StringToLongWordW( const S : WideString ) : LongWord
7282: Function StringToLongWord( const S : String ) : LongWord
7283: Function HexToUIntA( const S : AnsiString ) : NativeUInt
7284: Function HexToUIntW( const S : WideString ) : NativeUInt
7285: Function HexToUInt( const S : String ) : NativeUInt
7286: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7287: Function TryHexToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7288: Function TryHexToLongWord( const S : String; out A : LongWord ) : Boolean
7289: Function HexToLongWordA( const S : AnsiString ) : LongWord
7290: Function HexToLongWordW( const S : WideString ) : LongWord
7291: Function HexToLongWord( const S : String ) : LongWord
7292: Function TryOctToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7293: Function TryOctToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7294: Function TryOctToLongWord( const S : String; out A : LongWord ) : Boolean
7295: Function OctToLongWordA( const S : AnsiString ) : LongWord
7296: Function OctToLongWordW( const S : WideString ) : LongWord
7297: Function OctToLongWord( const S : String ) : LongWord
7298: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7299: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7300: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7301: Function BinToLongWordA( const S : AnsiString ) : LongWord
7302: Function BinToLongWordW( const S : WideString ) : LongWord
7303: Function BinToLongWord( const S : String ) : LongWord
7304: Function FloatToStringA( const A : Extended ) : AnsiString
7305: Function FloatToStringW( const A : Extended ) : WideString
7306: Function FloatToString( const A : Extended ) : String
7307: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7308: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7309: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7310: Function StringToFloatA( const A : AnsiString ) : Extended
7311: Function StringToFloatW( const A : WideString ) : Extended
7312: Function StringToFloat( const A : String ) : Extended
7313: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7314: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7315: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended
7316: Function EncodeBase64( const S, Alphabet : AnsiString; const Pad : Boolean; const PadMultiple : Integer; const
    PadChar : AnsiChar ) : AnsiString
7317: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7318: unit uPSI_oFundamentUtils;
7319: Const ('b64_MIMEBase64', 'Str').String('ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
7320: Const ('b64_UUEncode', 'String').String('!\"#$%&'()*+,-./0123456789;<=>?@ABCDEFGHIJKLMN O PQRSTUVWXYZ[\]^_';
7321: Const ('b64_XXEncode', 'String').String('+-0123456789ABCDEFGHIJKLMN O PQRSTUVWXYZabcdefghijklmnopqrstuvwxyz';
7322: Const ('CCHARSET', 'String').SetString(b64_XXEncode);
7323: Const ('CHEXSET', 'String').SetString('0123456789ABCDEF
7324: Const ('HEXDIGITS', 'String').SetString('0123456789ABCDEF
7325: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7326: Const ('DIGSET', 'String').SetString('0123456789

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7327: Const('LETTERSET','String').SetString('ABCDEFGHIJKLMNOPQRSTUVWXYZ
7328: Const('DIGISET2','String').SetSet('0123456789
7329: Const('LETTERSET2','String').SetSet('ABCDEFGHIJKLMNOPQRSTUVWXYZ
7330: Function CharSetToStr( const C : CharSet ) : AnsiString
7331: Function StrToCharSet( const S : AnsiString ) : CharSet
7332: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7333: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7334: Function UUDecode( const S : AnsiString ) : AnsiString
7335: Function XXDecode( const S : AnsiString ) : AnsiString
7336: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7337: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7338: Function InterfaceToStrW( const I : IInterface ) : WideString
7339: Function InterfaceToStr( const I : IInterface ) : String
7340: Function ObjectClassName( const O : TObject ) : String
7341: Function ClassClassName( const C : TClass ) : String
7342: Function ObjectToStr( const O : TObject ) : String
7343: Function ObjectToString( const O : TObject ) : String
7344: Function CharSetToStr( const C : CharSet ) : AnsiString
7345: Function StrToCharSet( const S : AnsiString ) : CharSet
7346: Function HashStrA( const S : AnsiString; const Index : Integer; const Count : Integer; const
  AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7347: Function HashStrW( const S : WideString; const Index : Integer; const Count : Integer; const
  AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7348: Function HashStr( const S : String; const Index : Integer; const Count : Integer; const
  AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7349: Function HashInteger( const I : Integer; const Slots : LongWord ) : LongWord
7350: Function HashLongWord( const I : LongWord; const Slots : LongWord ) : LongWord
7351: Const('Bytes1KB','LongInt').SetInt( 1024);
7352: SIRegister_IInterface(CL);
7353: Procedure SelfTestCFundamentUtils
7354:
7355: Function CreateSchedule : IJclSchedule
7356: Function NullStamp : TTimeStamp
7357: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7358: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7359: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7360:
7361: procedure SIRegister_uwinplot(CL: TPSPascalCompiler);
7362: begin
7363:   AddTypeS('TFunc', 'function(X : Float) : Float;
7364: Function InitGraphics( Width, Height : Integer ) : Boolean
7365: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
7366: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
7367: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
7368: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float)
7369: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float)
7370: Procedure SetGraphTitle( Title : String)
7371: Procedure SetOxTitle( Title : String)
7372: Procedure SetOyTitle( Title : String)
7373: Function GetGraphTitle : String
7374: Function GetOxTitle : String
7375: Function GetOyTitle : String
7376: Procedure PlotOxAxis( Canvas : TCanvas)
7377: Procedure PlotOyAxis( Canvas : TCanvas)
7378: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid)
7379: Procedure WriteGraphTitle( Canvas : TCanvas)
7380: Function SetMaxCurv( NCurv : Byte ) : Boolean
7381: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor)
7382: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor)
7383: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String)
7384: Procedure SetCurvStep( CurvIndex, Step : Integer)
7385: Function GetMaxCurv : Byte
7386: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor)
7387: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7388: Function GetCurvLegend( CurvIndex : Integer ) : String
7389: Function GetCurvStep( CurvIndex : Integer ) : Integer
7390: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer)
7391: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer)
7392: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7393: Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7394: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean)
7395: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
7396: Function Xpixel( X : Float ) : Integer
7397: Function Ypixel( Y : Float ) : Integer
7398: Function Xuser( X : Integer ) : Float
7399: Function Yuser( Y : Integer ) : Float
7400: end;
7401:
7402: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7403: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7404: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector)
7405: Procedure FFT_Integer_Cleanup
7406: Procedure CalcFrequency(NumSamples,FrequencyIndex: Integer;InArray: TCompVector;var FT : Complex)
7407: //unit uPSI_JclStreams;
7408: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin ) : Int64
7409: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer ) : Int64
7410: Function CompareStreams( A, B : TStream; BufferSize : Integer ) : Boolean
7411: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer ) : Boolean
7412:

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7413: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7414: begin
7415:   FindClass('TOBJECT','EInvalidDest
7416:   FindClass('TOBJECT','EFCantMove
7417:   Procedure fmxCopyFile( const FileName, DestName : string)
7418:   Procedure fmxMoveFile( const FileName, DestName : string)
7419:   Function fmxGetFileSize( const FileName : string) : LongInt
7420:   Function fmxFileDateTime( const FileName : string) : TDateTime
7421:   Function fmxHasAttr( const FileName : string; Attr : Word) : Boolean
7422:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7423: end;
7424:
7425: procedure SIRegister_FindFileIter(CL: TPSPascalCompiler);
7426: begin
7427:   SIRegister_IFindFileIterator(CL);
7428:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7429: end;
7430:
7431: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7432: begin
7433:   Function SkipWhite( cp : PChar) : PChar
7434:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7435:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7436:   Function ReadIdent( cp : PChar; var ident : string) : PChar
7437: end;
7438:
7439: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7440: begin
7441:   SIRegister_TStringHashMapTraits(CL);
7442:   Function CaseSensitiveTraits : TStringHashMapTraits
7443:   Function CaseInsensitiveTraits : TStringHashMapTraits
7444:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod'
7445:   + 'e; Right : PHashNode; end
7446:   //PHashArray', '^THashArray // will not work
7447:   SIRegister_TStringHashMap(CL);
7448:   THashValue', 'Cardinal
7449:   Function StrHash( const s : string) : THashValue
7450:   Function TextHash( const s : string) : THashValue
7451:   Function DataHash( var AValue, ASize : Cardinal) : THashValue
7452:   Function Iterate_FreeObjects( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7453:   Function Iterate_Dispose( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7454:   Function Iterate_FreeMem( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7455:   SIRegister_TCaseSensitiveTraits(CL);
7456:   SIRegister_TCaseInsensitiveTraits(CL);
7457:
7458:
7459: //*****unit uPSI_umath;
7460: Function uExpo( X : Float) : Float
7461: Function uExp2( X : Float) : Float
7462: Function uExp10( X : Float) : Float
7463: Function uLog( X : Float) : Float
7464: Function uLog2( X : Float) : Float
7465: Function uLog10( X : Float) : Float
7466: Function uLogA( X, A : Float) : Float
7467: Function uIntPower( X : Float; N : Integer) : Float
7468: Function uPower( X, Y : Float) : Float
7469: Function SgnGamma( X : Float) : Integer
7470: Function Stirling( X : Float) : Float
7471: Function StirLog( X : Float) : Float
7472: Function Gamma( X : Float) : Float
7473: Function LnGamma( X : Float) : Float
7474: Function DiGamma( X : Float) : Float
7475: Function TriGamma( X : Float) : Float
7476: Function IGamma( X : Float) : Float
7477: Function JGamma( X : Float) : Float
7478: Function InvGamma( X : Float) : Float
7479: Function Erf( X : Float) : Float
7480: Function Erfc( X : Float) : Float
7481: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7482: { Correlation coefficient between samples X and Y }
7483: function DBeta(A, B, X : Float) : Float;
7484: { Density of Beta distribution with parameters A and B }
7485: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7486: Function Beta(X, Y : Float) : Float
7487: Function Binomial( N, K : Integer) : Float
7488: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7489: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7490: Procedure LU_Decom( A : TMatrix; Lb, Ub : Integer)
7491: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7492: Function DNorm( X : Float) : Float
7493:
7494: function DGamma(A, B, X : Float) : Float;
7495: { Density of Gamma distribution with parameters A and B }
7496: function DKhi2(Nu : Integer; X : Float) : Float;
7497: { Density of Khi-2 distribution with Nu d.o.f. }
7498: function DStudent(Nu : Integer; X : Float) : Float;
7499: { Density of Student distribution with Nu d.o.f. }
7500: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float;
7501: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }

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7502: function IBeta(A, B, X : Float) : Float;
7503: { Incomplete Beta function}
7504: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7505:
7506: procedure SIRegister_unlfit(CL: TPSPascalCompiler);
7507: begin
7508:   Procedure SetOptAlgo( Algo : TOptAlgo)
7509:   procedure SetOptAlgo(Algo : TOptAlgo);
7510:   { -----
7511:     Sets the optimization algorithm according to Algo, which must be
7512:     NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ   }
7513:
7514:   Function GetOptAlgo : TOptAlgo
7515:   Procedure SetMaxParam( N : Byte)
7516:   Function GetMaxParam : Byte
7517:   Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7518:   Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7519:   Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7520:   Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDerivProc; X, Y : TVector; Lb, Ub : Integer; MaxIter :
Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7521:   Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDerivProc; X, Y, S : TVector; Lb, Ub:Integer;
MaxIter:Integer;Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7522:   Procedure SetMCFile( FileName : String)
7523:   Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7524:   Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
LastPar:Integer;V:TMatrix);
7525: end;
7526:
7527: (*-----*)
7528: procedure SIRegister_usimplex(CL: TPSPascalCompiler);
7529: begin
7530:   Procedure SaveSimplex( FileName : string)
7531:   Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7532: end;
7533: (*-----*)
7534: procedure SIRegister_uregtest(CL: TPSPascalCompiler);
7535: begin
7536:   Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest)
7537:   Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest);
7538: end;
7539:
7540: procedure SIRegister_ustrings(CL: TPSPascalCompiler);
7541: begin
7542:   Function LTrim( S : String) : String
7543:   Function RTrim( S : String) : String
7544:   Function uTrim( S : String) : String
7545:   Function StrChar( N : Byte; C : Char) : String
7546:   Function RFill( S : String; L : Byte) : String
7547:   Function LFill( S : String; L : Byte) : String
7548:   Function CFill( S : String; L : Byte) : String
7549:   Function Replace( S : String; C1, C2 : Char) : String
7550:   Function Extract( S : String; var Index : Byte; Delim : Char) : String
7551:   Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7552:   Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7553:   Function FloatStr( X : Float) : String
7554:   Function IntStr( N : LongInt) : String
7555:   Function uCompStr( Z : Complex) : String
7556: end;
7557:
7558: procedure SIRegister_uhyper(CL: TPSPascalCompiler);
7559: begin
7560:   Function uSinh( X : Float) : Float
7561:   Function uCosh( X : Float) : Float
7562:   Function uTanh( X : Float) : Float
7563:   Function uArcSinh( X : Float) : Float
7564:   Function uArcCosh( X : Float) : Float
7565:   Function ArcTanh( X : Float) : Float
7566:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7567: end;
7568:
7569: procedure SIRegister_urandom(CL: TPSPascalCompiler);
7570: begin
7571:   type RNG_Type =
7572:     (RNG_MWC, { Multiply-With-Carry }
7573:     RNG_MT, { Mersenne Twister }
7574:     RNG_UVAG); { Universal Virtual Array Generator }
7575:   Procedure SetRNG( RNG : RNG_Type)
7576:   Procedure InitGen( Seed : RNG_IntType)
7577:   Procedure SRand( Seed : RNG_IntType)
7578:   Function IRanGen : RNG_IntType
7579:   Function IRanGen31 : RNG_IntType
7580:   Function RanGen1 : Float
7581:   Function RanGen2 : Float
7582:   Function RanGen3 : Float
7583:   Function RanGen53 : Float
7584: end;
7585:
7586: // Optimization by Simulated Annealing
7587: procedure SIRegister_usimann(CL: TPSPascalCompiler);

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7588: begin
7589:   Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7590:   Procedure SA_CreateLogFile( FileName : String)
7591:   Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7592: end;
7593:
7594: procedure SIRegister_uranuvag(CL: TPSPascalCompiler);
7595: begin
7596:   Procedure InitUVAGbyString( KeyPhrase : string)
7597:   Procedure InitUVAG( Seed : RNG_IntType)
7598:   Function IRanUVAG : RNG_IntType
7599: end;
7600:
7601: procedure SIRegister_ugenalg(CL: TPSPascalCompiler);
7602: begin
7603:   Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7604:   Procedure GA_CreateLogFile( LogFileName : String)
7605:   Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7606: end;
7607:
7608:   TVector', 'array of Float
7609: procedure SIRegister_uqsort(CL: TPSPascalCompiler);
7610: begin
7611:   Procedure QSort( X : TVector; Lb, Ub : Integer)
7612:   Procedure DQSort( X : TVector; Lb, Ub : Integer)
7613: end;
7614:
7615: procedure SIRegister_uinterv(CL: TPSPascalCompiler);
7616: begin
7617:   Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7618:   Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7619: end;
7620:
7621: procedure SIRegister_D2XXUnit(CL: TPSPascalCompiler);
7622: begin
7623:   FT_Result', 'Integer
7624:   //TDWordptr', '^DWord // will not work
7625:   TFFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWor
7626:   d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PChar
7627:   r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP
7628:   ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B
7629:   yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By
7630:   te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte
7631:   ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S
7632:   erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh
7633:   Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By
7634:   te; IFAIsFastSer : Byte; AIsVCP : Byte; IFBIsFifo : Byte; IFBIsFifoTar : B
7635:   yte; IFBIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs :
7636:   Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; I
7637:   nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv
7638:   ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0
7639:   : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIsVCP : B
7640:   yte; end
7641: end;
7642:
7643:
7644: //***** PaintFX*****
7645: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7646: begin
7647:   //with RegClassS(CL, 'TComponent', 'TJvPaintFX') do
7648:   with AddClassN(FindClass('TComponent'), 'TJvPaintFX') do begin
7649:     Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7650:     Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7651:     Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7652:     Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7653:     Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7654:     Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7655:     Procedure Turn( Src, Dst : TBitmap)
7656:     Procedure TurnRight( Src, Dst : TBitmap)
7657:     Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7658:     Procedure TexturizeTile( const Dst : TBitmap; Amount : Integer)
7659:     Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7660:     Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7661:     Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7662:     Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7663:     Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7664:     Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7665:     Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7666:     Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7667:     Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7668:     Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7669:     Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7670:     Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7671:     Procedure Emboss( var Bmp : TBitmap)
7672:     Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7673:     Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7674:     Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7675:     Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7676:     Procedure KeepGreen( const Dst : TBitmap; Factor : Single)

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7677: Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7678: Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7679: Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7680: Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7681: Procedure QuartoOpaque( Src, Dst : TBitmap)
7682: Procedure SemiOpaque( Src, Dst : TBitmap)
7683: Procedure ShadowDownLeft( const Dst : TBitmap)
7684: Procedure ShadowDownRight( const Dst : TBitmap)
7685: Procedure ShadowUpLeft( const Dst : TBitmap)
7686: Procedure ShadowUpRight( const Dst : TBitmap)
7687: Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7688: Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7689: Procedure FlipRight( const Dst : TBitmap)
7690: Procedure FlipDown( const Dst : TBitmap)
7691: Procedure SpotLight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7692: Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7693: Procedure MakeSeamlessClip( var Dst : TBitmap; Seam : Integer)
7694: Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7695: Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7696: Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7697: Procedure SmoothResize( var Src, Dst : TBitmap)
7698: Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7699: Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7700: Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7701: Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7702: Procedure GrayScale( const Dst : TBitmap)
7703: Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7704: Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7705: Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7706: Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7707: Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7708: Procedure Spray( const Dst : TBitmap; Amount : Integer)
7709: Procedure AntiAlias( const Dst : TBitmap)
7710: Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7711: Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7712: Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7713: Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7714: Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7715: Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7716: Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7717: Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7718: Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7719: Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7720: Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7721: Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7722: Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7723: Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7724: Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7725: Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7726: Procedure Invert( Src : TBitmap)
7727: Procedure MirrorRight( Src : TBitmap)
7728: Procedure MirrorDown( Src : TBitmap)
7729: end;
7730: end;
7731:
7732: (*-----*)
7733: procedure SIRegister_JvPaintFX(CL: TPSPascalCompiler);
7734: begin
7735:   AddTypeS('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe'
7736:     + 'ye, lbrotate, lbtwist, lbrimple, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7737:     + 'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )'
7738:   );
7739:   SIRegister_TJvPaintFX(CL);
7740:   Function SplineFilter( Value : Single) : Single
7741:   Function BellFilter( Value : Single) : Single
7742:   Function TriangleFilter( Value : Single) : Single
7743:   Function BoxFilter( Value : Single) : Single
7744:   Function HermiteFilter( Value : Single) : Single
7745:   Function Lanczos3Filter( Value : Single) : Single
7746:   Function MitchellFilter( Value : Single) : Single
7747: end;
7748:
7749: (*-----*)
7750: procedure SIRegister_Chart(CL: TPSPascalCompiler);
7751: begin
7752:   TeeMsg_DefaultFunctionName, 'String').SetString( 'TeeFunction
7753: TeeMsg_DefaultSeriesName, 'String').SetString( 'Series
7754: TeeMsg_DefaultToolName, 'String').SetString( 'ChartTool
7755: ChartComponentPalette, 'String').SetString( 'TeeChart
7756: TeeMaxLegendColumns, 'LongInt').SetInt( 2);
7757: TeeDefaultLegendSymbolWidth, 'LongInt').SetInt( 20);
7758: TeeTitleFootDistance, 'LongInt').SetInt( 5);
7759: SIRegister_TCustomChartWall(CL);
7760: SIRegister_TChartWall(CL);
7761: SIRegister_TChartLegendGradient(CL);
7762: TLegendStyle, '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7763: TLegendAlignment, '( laLeft, laRight, laTop, laBottom )
7764: FindClass('TOBJECT'), 'LegendException
7765: TOnGetLegendText, 'Procedure ( Sender : TCustomAxisPanel; Legen'

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7766:   +dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7767: FindClass('TObject'),'TCustomChartLegend
7768: TLegendSymbolSize', '( lcsPercent, lcsPixels )
7769: TLegendSymbolPosition', '( spLeft, spRight )
7770: TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7771: TSymbolCalcHeight', 'Function : Integer
7772: SIRegister_TLegendSymbol(CL);
7773: SIRegister_TTeeCustomShapePosition(CL);
7774: TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7775: SIRegister_TLegendTitle(CL);
7776: SIRegister_TLegendItem(CL);
7777: SIRegister_TLegendItems(CL);
7778: TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7779: FindClass('TObject'),'TCustomChart
7780: SIRegister_TCustomChartLegend(CL);
7781: SIRegister_TChartLegend(CL);
7782: SIRegister_TChartTitle(CL);
7783: SIRegister_TChartFootTitle(CL);
7784: TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7785:   +eButton; Shift : TShiftState; X, Y : Integer)
7786: TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7787:   +artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7788: TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7789:   +TChartSeries; ValueIndex : Integer; Button : TMouseButton; Shift:TShiftState;X,Y:Integer)
7790: TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7791:   +TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7792: TOnGetLegendPos', 'Procedure (Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7793: TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7794: TAxisSavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7795:   +toMax : Boolean; Min : Double; Max : Double; end
7796: TAllAxisSavedScales', 'array of TAxisSavedScales
7797: SIRegister_TChartBackWall(CL);
7798: SIRegister_TChartRightWall(CL);
7799: SIRegister_TChartBottomWall(CL);
7800: SIRegister_TChartLeftWall(CL);
7801: SIRegister_TChartWalls(CL);
7802: TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7803: SIRegister_TCustomChart(CL);
7804: SIRegister_TChart(CL);
7805: SIRegister_TTeeSeriesTypes(CL);
7806: SIRegister_TTeeToolTypes(CL);
7807: SIRegister_TTeeDragObject(CL);
7808: SIRegister_TColorPalettes(CL);
7809: Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
AGalleryPage:PString;ANumGallerySeries:Integer;
7810: Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADescription : PString);
7811: Procedure RegisterTeeFunction(AFuncntClass:TTeeFunctionClass;ADescription,
AGalleryPage:PString;ANumGallerySeries: Int;
7812: Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADescription : PString)
7813: Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass;AFunctionClass:TTeeFunctionClass;
ADescription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7814: Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7815: Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7816: Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7817: Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass ) : TTeeFunction
7818: Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
AFunctionClass : TTeeFunctionClass ) : TChartSeries
7819: Function CloneChartSeries( ASeries : TChartSeries ) : TChartSeries;
7820: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel ) : TChartSeries;
7821: Function CloneChartSeries2(ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7822: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7823: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass ) : TChartSeries
7824: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass)
7825: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7826: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7827: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7828: Function GetGallerySeriesName(ASeries : TChartSeries) : String
7829: Procedure PaintSeriesLegend(ASeries:TChartSeries; ACanvas:TCanvas; const R:TRect;ReferenceChart :
TCustomChart);
7830: SIRegister_TChartTheme(CL);
7831: //TChartThemeClass', 'class of TChartTheme
7832: //TCanvasClass', 'class of TCanvas3D
7833: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7834: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7835: Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean)
7836: Procedure ShowMessageUser( const S : String)
7837: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7838: Function HasLabels( ASeries : TChartSeries ) : Boolean
7839: Function HasColors( ASeries : TChartSeries ) : Boolean
7840: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7841: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer)
7842: end;
7843:
7844:
7845: procedure SIRegister_TeeProcs(CL: TPSPascalCompiler);
7846: begin
7847:   //TeeFormBorderStyle', '').SetString( bsNone);
7848:   SIRegister_TMetafile(CL);
7849:   'TeeDefVerticalMargin', 'LongInt').SetInt( 4);

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7850: 'TeeDefHorizMargin','LongInt').SetInt( 3);
7851: 'crTeeHand','LongInt').SetInt( TCursor ( 2020 ));
7852: 'TeeMsg_TeeHand','String').SetString( 'crTeeHand
7853: 'TeeNormalPrintDetail','LongInt').SetInt( 0);
7854: 'TeeHighPrintDetail','LongInt').SetInt( - 100);
7855: 'TeeDefault_PrintMargin','LongInt').SetInt( 15);
7856: 'MaxDefaultColors','LongInt').SetInt( 19);
7857: 'TeeTabDelimiter','Char').SetString( #9);
7858: TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7859: + 'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7860: + 'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7861: + 'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7862: + 'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7863: + 'ourMonths, dtSixMonths, dtOneYear, dtNone )
7864: SIRegister_TCustomPanelNoCaption(CL);
7865: FindClass('TObject'),'TCustomTeePanel
7866: SIRegister_TZoomPanning(CL);
7867: SIRegister_TTeeEvent(CL);
7868: //SIRegister_TTeeEventListeners(CL);
7869: TTeeMouseEventKind', '( meDown, meUp, meMove )
7870: SIRegister_TTeeMouseEvent(CL);
7871: SIRegister_TCustomTeePanel(CL);
7872: //TChartGradient', 'TGradient
7873: //TChartGradientClass', 'class of TChartGradient
7874: TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7875: SIRegister_TTeeZoomPen(CL);
7876: SIRegister_TTeeZoomBrush(CL);
7877: TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7878: SIRegister_TTeeZoom(CL);
7879: FindClass('TObject'),'TCustomTeePanelExtended
7880: TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7881: SIRegister_TBackImage(CL);
7882: SIRegister_TCustomTeePanelExtended(CL);
7883: //TChartBrushClass', 'class of TChartBrush
7884: SIRegister_TTeeCustomShapeBrushPen(CL);
7885: TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7886: TTextFormat', '( ttfNormal, ttfHtml )
7887: SIRegister_TTeeCustomShape(CL);
7888: SIRegister_TTeeShape(CL);
7889: SIRegister_TTeeExportData(CL);
7890: Function TeeStr( const Num : Integer) : String
7891: Function DateTimeDefaultFormat( const AStep : Double) : String
7892: Function TEEDaysInMonth( Year, Month : Word) : Word
7893: Function FindDateTimeStep( const StepValue : Double) : TDateTimeStep
7894: Function NextDateTimeStep( const AStep : Double) : Double
7895: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer) : Boolean;
7896: Function PointInLine1( const P, FromPoint, ToPoint : TPoint) : Boolean;
7897: Function PointInLine2(const P,FromPoint,ToPoint:TPoint;const TolerancePixels:Integer):Boolean;
7898: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels:Integer):Boolean;
7899: Function PointInLineTolerance(const P:TPoint;const px,py,qx,qy,TolerancePixels:Integer):Boolean;
7900: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint) : Boolean
7901: Function PointInTriangle( const P, P0, P1, P2 : TPoint) : Boolean;
7902: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer) : Boolean;
7903: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer) : Boolean
7904: Function PointInEllipse( const P : TPoint; const Rect : TRect) : Boolean;
7905: Function PointInEllipse1( const P: TPoint;Left,Top,Right, Bottom : Integer) : Boolean;
7906: Function DelphiToLocalFormat( const Format : String) : String
7907: Function LocalToDelphiFormat( const Format : String) : String
7908: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
7909: Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime
7910: Procedure TeeDateTimeIncrement(IsDateTime:Boolean;Increment:Boolean;var Value:Double;const
AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
7911: 'TeeSortCompare', 'Function ( a, b : Integer) : Integer
7912: 'TeeSortSwap', 'Procedure ( a, b : Integer)
7913: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:TeeSortCompare;SwapFunc:TeeSortSwap);
7914: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String) : string
7915: Function TeeExtractField( St : String; Index : Integer) : String;
7916: Function TeeExtractField1( St : String; Index : Integer; const Separator : String) : String;
7917: Function TeeNumFields( St : String) : Integer;
7918: Function TeeNumFields1( const St, Separator : String) : Integer;
7919: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap)
7920: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String)
7921: // TColorArray', 'array of TColor
7922: Function GetDefaultColor( const Index : Integer) : TColor
7923: Procedure SetDefaultColorPalette;
7924: Procedure SetDefaultColorPalett1( const Palette : array of TColor);
7925: 'TeeCheckBoxSize','LongInt').SetInt( 11);
7926: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
7927: Function TeeStrToFloatDef( const S : string; const Default : Extended) : Extended
7928: Function TryStrToFloat( const S : String; var Value : Double) : Boolean
7929: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double) : Boolean
7930: Procedure TeeTranslateControl( AControl : TControl);
7931: Procedure TeeTranslateControl1( AControl : TControl; const ExcludeChilds : array of TControl);
7932: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char) : String
7933: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints)
7934: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean) : TBitmap
7935: //Procedure DrawBevel(Canvas:TTEECanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
7936: //Function ScreenRatio( ACanvas : TCanvas3D) : Double
7937: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean) : Boolean

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7938: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean)
7939: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer) : Integer
7940: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer)
7941: Function TeeReadStringOption( const AKey, DefaultValue : String) : String
7942: Procedure TeeSaveStringOption( const AKey, Value : String)
7943: Function TeeDefaultXMLEncoding : String
7944: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean)
7945: TeeWindowHandle', 'Integer
7946: Procedure TeeGotoURL( Handle : TeeWindowHandle; const URL : String)
7947: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String)
7948: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String) : TSize
7949: end;
7950:
7951:
7952: using mXBDEUtils
7953: *****
7954: Procedure SetAlias( aAlias, aDirectory : String)
7955: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
7956: Function GetFileVersionNumber( const FileName : String) : TVersionNo
7957: Procedure SetBDE( aPath, aNode, aValue : String)
7958: function RestartDialog(Wnd: HWND; Reason: PChar; Flags: Integer): Integer; stdcall;
7959: Function GetSystemDirectory( lpBuffer : string; uSize : UINT) : UINT
7960: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT) : UINT
7961: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string) : DWORD
7962: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string) : DWORD
7963: Function GetTempFileName( lpPathName, lpPrefixString:string; uUnique:UINT; lpTempFileName:string) :UINT;
7964:
7965:
7966: procedure SIRegister_cDateTime(CL: TPSPascalCompiler);
7967: begin
7968: AddClassN(FindClass('TOBJECT'),'EDateTime
7969: Function DatePart( const D : TDateTime) : Integer
7970: Function TimePart( const D : TDateTime) : Double
7971: Function Century( const D : TDateTime) : Word
7972: Function Year( const D : TDateTime) : Word
7973: Function Month( const D : TDateTime) : Word
7974: Function Day( const D : TDateTime) : Word
7975: Function Hour( const D : TDateTime) : Word
7976: Function Minute( const D : TDateTime) : Word
7977: Function Second( const D : TDateTime) : Word
7978: Function Millisecond( const D : TDateTime) : Word
7979: ('OneDay','Extended').SetExtended( 1.0);
7980: ('OneHour','Extended').SetExtended( OneDay / 24);
7981: ('OneMinute','Extended').SetExtended( OneHour / 60);
7982: ('OneSecond','Extended').SetExtended( OneMinute / 60);
7983: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000);
7984: ('OneWeek','Extended').SetExtended( OneDay * 7);
7985: ('HoursPerDay','Extended').SetExtended( 24);
7986: ('MinutesPerHour','Extended').SetExtended( 60);
7987: ('SecondsPerMinute','Extended').SetExtended( 60);
7988: Procedure SetYear( var D : TDateTime; const Year : Word)
7989: Procedure SetMonth( var D : TDateTime; const Month : Word)
7990: Procedure SetDay( var D : TDateTime; const Day : Word)
7991: Procedure SetHour( var D : TDateTime; const Hour : Word)
7992: Procedure SetMinute( var D : TDateTime; const Minute : Word)
7993: Procedure SetSecond( var D : TDateTime; const Second : Word)
7994: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
7995: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
7996: Function IsEqual1( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
7997: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
7998: Function IsAM( const D : TDateTime) : Boolean
7999: Function IsPM( const D : TDateTime) : Boolean
8000: Function IsMidnight( const D : TDateTime) : Boolean
8001: Function IsNoon( const D : TDateTime) : Boolean
8002: Function IsSunday( const D : TDateTime) : Boolean
8003: Function IsMonday( const D : TDateTime) : Boolean
8004: Function IsTuesday( const D : TDateTime) : Boolean
8005: Function IsWednesday( const D : TDateTime) : Boolean
8006: Function IsThursday( const D : TDateTime) : Boolean
8007: Function IsFriday( const D : TDateTime) : Boolean
8008: Function IsSaturday( const D : TDateTime) : Boolean
8009: Function IsWeekend( const D : TDateTime) : Boolean
8010: Function Noon( const D : TDateTime) : TDateTime
8011: Function Midnight( const D : TDateTime) : TDateTime
8012: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8013: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8014: Function NextWorkday( const D : TDateTime) : TDateTime
8015: Function PreviousWorkday( const D : TDateTime) : TDateTime
8016: Function FirstDayOfYear( const D : TDateTime) : TDateTime
8017: Function LastDayOfYear( const D : TDateTime) : TDateTime
8018: Function EasterSunday( const Year : Word) : TDateTime
8019: Function GoodFriday( const Year : Word) : TDateTime
8020: Function AddMilliseconds( const D : TDateTime; const N : Int64) : TDateTime
8021: Function AddSeconds( const D : TDateTime; const N : Int64) : TDateTime
8022: Function AddMinutes( const D : TDateTime; const N : Integer) : TDateTime
8023: Function AddHours( const D : TDateTime; const N : Integer) : TDateTime
8024: Function AddDays( const D : TDateTime; const N : Integer) : TDateTime
8025: Function AddWeeks( const D : TDateTime; const N : Integer) : TDateTime

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8026: Function AddMonths( const D : TDateTime; const N : Integer ) : TDateTime
8027: Function AddYears( const D : TDateTime; const N : Integer ) : TDateTime
8028: Function DayOfYear( const Ye, Mo, Da : Word ) : Integer
8029: Function DayOfYear( const D : TDateTime ) : Integer
8030: Function DaysInMonth( const Ye, Mo : Word ) : Integer
8031: Function DaysInMonth( const D : TDateTime ) : Integer
8032: Function DaysInYear( const Ye : Word ) : Integer
8033: Function DaysInYearDate( const D : TDateTime ) : Integer
8034: Function WeekNumber( const D : TDateTime ) : Integer
8035: Function ISOFirstWeekOfYear( const Ye : Word ) : TDateTime
8036: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word )
8037: Function DiffMilliseconds( const D1, D2 : TDateTime ) : Int64
8038: Function DiffSeconds( const D1, D2 : TDateTime ) : Integer
8039: Function DiffMinutes( const D1, D2 : TDateTime ) : Integer
8040: Function DiffHours( const D1, D2 : TDateTime ) : Integer
8041: Function DiffDays( const D1, D2 : TDateTime ) : Integer
8042: Function DiffWeeks( const D1, D2 : TDateTime ) : Integer
8043: Function DiffMonths( const D1, D2 : TDateTime ) : Integer
8044: Function DiffYears( const D1, D2 : TDateTime ) : Integer
8045: Function GMTBias : Integer
8046: Function GMTTimeToLocalTime( const D : TDateTime ) : TDateTime
8047: Function LocalTimeToGMTTime( const D : TDateTime ) : TDateTime
8048: Function NowAsGMTTime : TDateTime
8049: Function DateTimeToISO8601String( const D : TDateTime ) : AnsiString
8050: Function ISO8601StringToTime( const D : AnsiString ) : TDateTime
8051: Function ISO8601StringAsDateTime( const D : AnsiString ) : TDateTime
8052: Function DateTimeToANSI( const D : TDateTime ) : Integer
8053: Function ANSIToDateTime( const Julian : Integer ) : TDateTime
8054: Function DateTimeToISOInteger( const D : TDateTime ) : Integer
8055: Function DateTimeToISOString( const D : TDateTime ) : AnsiString
8056: Function ISOIntegerToDateTime( const ISOInteger : Integer ) : TDateTime
8057: Function TwoDigitRadix2000YearToYear( const Y : Integer ) : Integer
8058: Function DateTimeAsElapsedTime( const D : TDateTime; const IncludeMilliseconds: Boolean ) : AnsiString
8059: Function UnixTimeToDateTime( const UnixTime : LongWord ) : TDateTime
8060: Function DateTimeToUnixTime( const D : TDateTime ) : LongWord
8061: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8062: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8063: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8064: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8065: Function EnglishShortMonthStrA( const Month : Integer ) : AnsiString
8066: Function EnglishShortMonthStrU( const Month : Integer ) : UnicodeString
8067: Function EnglishLongMonthStrA( const Month : Integer ) : AnsiString
8068: Function EnglishLongMonthStrU( const Month : Integer ) : UnicodeString
8069: Function EnglishShortDayOfWeekA( const S : AnsiString ) : Integer
8070: Function EnglishShortDayOfWeekU( const S : UnicodeString ) : Integer
8071: Function EnglishLongDayOfWeekA( const S : AnsiString ) : Integer
8072: Function EnglishLongDayOfWeekU( const S : UnicodeString ) : Integer
8073: Function EnglishShortMonthA( const S : AnsiString ) : Integer
8074: Function EnglishShortMonthU( const S : UnicodeString ) : Integer
8075: Function EnglishLongMonthA( const S : AnsiString ) : Integer
8076: Function EnglishLongMonthU( const S : UnicodeString ) : Integer
8077: Function RFC850DayOfWeekA( const S : AnsiString ) : Integer
8078: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8079: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8080: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8081: Function RFCMonthA( const S : AnsiString ) : Word
8082: Function RFCMonthU( const S : UnicodeString ) : Word
8083: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds: Boolean ) : AnsiString
8084: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds: Boolean ) : UnicodeString
8085: Function GMTDateTimeToRFC1123DateTimeA( const D : TDateTime; const IncludeDayOfWeek: Boolean ) : AnsiString;
8086: Function GMTDateTimeToRFC1123DateTimeU( const D : TDateTime; const IncludeDayOfWeek: Boolean ) : UnicodeString;
8087: Function DateTimeToRFCDateTimeA( const D : TDateTime ) : AnsiString
8088: Function DateTimeToRFCDateTimeU( const D : TDateTime ) : UnicodeString
8089: Function NowAsRFCDateTimeA : AnsiString
8090: Function NowAsRFCDateTimeU : UnicodeString
8091: Function RFCDateTimeToGMTDateTime( const S : AnsiString ) : TDateTime
8092: Function RFCDateTimeToDateTime( const S : AnsiString ) : TDateTime
8093: Function RFCTimeZoneToGMTBias( const Zone : AnsiString ) : Integer
8094: Function TimePeriodStr( const D : TDateTime ) : AnsiString
8095: Procedure SelfTest
8096: end;
8097: //*****CFileUtils
8098: Function PathHasDriveLetterA( const Path : AnsiString ) : Boolean
8099: Function PathHasDriveLetter( const Path : String ) : Boolean
8100: Function PathIsDriveLetterA( const Path : AnsiString ) : Boolean
8101: Function PathIsDriveLetter( const Path : String ) : Boolean
8102: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8103: Function PathIsDriveRoot( const Path : String ) : Boolean
8104: Function PathIsRootA( const Path : AnsiString ) : Boolean
8105: Function PathIsRoot( const Path : String ) : Boolean
8106: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8107: Function PathIsUNCPath( const Path : String ) : Boolean
8108: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8109: Function PathIsAbsolute( const Path : String ) : Boolean
8110: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8111: Function PathIsDirectory( const Path : String ) : Boolean
8112: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8113: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8114: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString

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8115: Function PathExclSuffix( const Path : String; const PathSep : Char) : String
8116: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char)
8117: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char)
8118: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char)
8119: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char)
8120: //Function PathCanonicalA( const Path : AnsiString; const PathSep : Char) : AnsiString
8121: Function PathCanonical( const Path : String; const PathSep : Char) : String
8122: Function PathExpandA( const Path:AnsiString;const BasePath:AnsiString;const PathSep:Char):AnsiString
8123: Function PathExpand( const Path : String; const BasePath : String; const PathSep : Char) : String
8124: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char) : AnsiString
8125: Function PathLeftElement( const Path : String; const PathSep : Char) : String
8126: Procedure PathSplitLeftElementA(const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char);
8127: Procedure PathSplitLeftElement(const Path:String; var LeftElement,RightPath: String;const PathSep:Char);
8128: Procedure DecodeFilePathA(const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char;
8129: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char)
8130: Function FileNameValidA( const FileName : AnsiString) : AnsiString
8131: Function FileNameValid( const FileName : String) : String
8132: Function FilePathA(const FileName,Path:AnsiString;const BasePath:AnsiStr;const PathSep:Char):AnsiString;
8133: Function FilePath(const FileName, Path: String;const BasePath: String;const PathSep : Char) : String
8134: Function DirectoryExpandA(const Path:AnsiString;const BasePath:AnsiString;const PathSep:Char):AnsiString
8135: Function DirectoryExpand(const Path: String; const BasePath: String; const PathSep : Char) : String
8136: Function UnixPathToWinPath( const Path : AnsiString) : AnsiString
8137: Function WinPathToUnixPath( const Path : AnsiString) : AnsiString
8138: Procedure CCopyFile( const FileName, DestName : String)
8139: Procedure CMoveFile( const FileName, DestName : String)
8140: Function CDeleteFiles( const FileMask : String) : Boolean
8141: Function FileSeekEx(const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8142: Procedure FileCloseEx( const FileHandle : TFileHandle)
8143: Function FileExistsA( const FileName : AnsiString) : Boolean
8144: Function CFileExists( const FileName : String) : Boolean
8145: Function CFileSize( const FileName : String) : Int64
8146: Function FileGetDateTime( const FileName : String) : TDateTime
8147: Function FileGetDateTime2( const FileName : String) : TDateTime
8148: Function FileIsReadOnly( const FileName : String) : Boolean
8149: Procedure FileDeleteEx( const FileName : String)
8150: Procedure FileRenameEx( const OldFileName, NewFileName : String)
8151: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode
: TFileCreationMode; const FileOpenWait : PFileOpenWait) : AnsiString
8152: Function DirectoryEntryExists( const Name : String) : Boolean
8153: Function DirectoryEntrySize( const Name : String) : Int64
8154: Function CDirectoryExists( const DirectoryName : String) : Boolean
8155: Function DirectoryGetDateTime( const DirectoryName : String) : TDateTime
8156: Procedure CDirectoryCreate( const DirectoryName : String)
8157: Function GetFirstFileNameMatching( const FileMask : String) : String
8158: Function DirEntryGetAttr( const FileName : AnsiString) : Integer
8159: Function DirEntryIsDirectory( const FileName : AnsiString) : Boolean
8160: Function FileHasAttr( const FileName : String; const Attr : Word) : Boolean
8161: AddTypeS('TLogicalDriveType', '( DriveRemovable, DriveFixed, DriveRemote, '
8162: + 'DriveCDRom, DriveRamDisk, DriveTypeUnknown )
8163: Function DriveIsValid( const Drive : Char) : Boolean
8164: Function DriveGetType( const Path : AnsiString) : TLogicalDriveType
8165: Function DriveFreeSpace( const Path : AnsiString) : Int64
8166:
8167: procedure SIRegister_cTimers(CL: TPSPascalCompiler);
8168: begin
8169:   AddClassN(FindClass('TOBJECT'),'ETimers
8170:   Const('TickFrequency','LongInt').SetInt( 1000);Function GetTick : LongWord
8171: Function TickDelta( const D1, D2 : LongWord) : Integer
8172: Function TickDeltaW( const D1, D2 : LongWord) : LongWord
8173:   AddTypeS('THPTimer', 'Int64
8174: Procedure StartTimer( var Timer : THPTimer)
8175: Procedure StopTimer( var Timer : THPTimer)
8176: Procedure ResumeTimer( var StoppedTimer : THPTimer)
8177: Procedure InitStoppedTimer( var Timer : THPTimer)
8178: Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer)
8179: Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean) : Integer
8180: Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean) : Int64
8181: Procedure WaitMicroseconds( const MicroSeconds : Integer)
8182: Function GetHighPrecisionFrequency : Int64
8183: Function GetHighPrecisionTimerOverhead : Int64
8184: Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64)
8185: Procedure SelfTestCTimer
8186: end;
8187:
8188: procedure SIRegister_cRandom(CL: TPSPascalCompiler);
8189: begin
8190:   Function RandomSeed : LongWord
8191:   Procedure AddEntropy( const Value : LongWord)
8192:   Function RandomUniform : LongWord;
8193:   Function RandomUniform1( const N : Integer) : Integer;
8194:   Function RandomBoolean : Boolean
8195:   Function RandomByte : Byte
8196:   Function RandomByteNonZero : Byte
8197:   Function RandomWord : Word
8198:   Function RandomInt64 : Int64;
8199:   Function RandomInt641( const N : Int64) : Int64;
8200:   Function RandomHex( const Digits : Integer) : String
8201:   Function RandomFloat : Extended
8202:   Function RandomAlphaStr( const Length : Integer) : AnsiString

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8203: Function RandomPseudoWord( const Length : Integer) : AnsiString
8204: Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8205: Function mwcRandomLongWord : LongWord
8206: Function urnRandomLongWord : LongWord
8207: Function moaRandomFloat : Extended
8208: Function mwcRandomFloat : Extended
8209: Function RandomNormalF : Extended
8210: Procedure SelfTestCRandom
8211: end;
8212:
8213: procedure SIRegister_SynEditMiscProcs(CL: TPSPascalCompiler);
8214: begin
8215:   // PIntArray, '^TIntArray // will not work
8216:   AddTypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8217:   AddTypes('TConvertTabsProcEx','function(const Line:AnsiString; TabWidth: integer;var HasTabs: boolean):
AnsiString
8218:   Function synMax( x, y : integer) : integer
8219:   Function synMin( x, y : integer) : integer
8220:   Function synMinMax( x, mi, ma : integer) : integer
8221:   Procedure synSwapInt( var l, r : integer)
8222:   Function synMaxPoint( const P1, P2 : TPoint) : TPoint
8223:   Function synMinPoint( const P1, P2 : TPoint) : TPoint
8224:   //Function synGetIntArray( Count : Cardinal; InitialValue : integer) : PIntArray
8225:   Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect)
8226:   Function synGetBestConvertTabsProc( TabWidth : integer) : TConvertTabsProc
8227:   Function synConvertTabs( const Line : AnsiString; TabWidth : integer) : AnsiString
8228:   Function synGetBestConvertTabsProcEx( TabWidth : integer) : TConvertTabsProcEx
8229:   Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8230:   Function synGetExpandedLength( const aStr : string; aTabWidth : integer) : integer
8231:   Function synCharIndex2CaretPos( Index, TabWidth : integer; const Line : string) : integer
8232:   Function synCaretPos2CharIndex( Position, TabWidth: int;const Line:string;var InsideTabChar:boolean):int;
8233:   Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8234:   Function synStrRScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8235:   TStringType', '( stNone, stHalfNumAlpha, stHalfSymbol, stHalfKat'
8236:   + 'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida )
8237:   ('C3_NONSPACING','LongInt').SetInt( 1);
8238:   ('C3_DIACRITIC','LongInt').SetInt( 2);
8239:   ('C3_VOWELMARK','LongInt').SetInt( 4);
8240:   ('C3_SYMBOL','LongInt').SetInt( 8);
8241:   ('C3_KATAKANA','LongWord').SetUInt( $0010);
8242:   ('C3_HIRAGANA','LongWord').SetUInt( $0020);
8243:   ('C3_HALFWIDTH','LongWord').SetUInt( $0040);
8244:   ('C3_FULLWIDTH','LongWord').SetUInt( $0080);
8245:   ('C3_IDEOGRAPH','LongWord').SetUInt( $0100);
8246:   ('C3_KASHIDA','LongWord').SetUInt( $0200);
8247:   ('C3_LEXICAL','LongWord').SetUInt( $0400);
8248:   ('C3_ALPHA','LongWord').SetUInt( $8000);
8249:   ('C3_NOTAPPLICABLE','LongInt').SetInt( 0);
8250:   Function synStrScanForMultiByteChar( const Line : string; Start : Integer) : Integer
8251:   Function synStrRScanForMultiByteChar( const Line : string; Start : Integer) : Integer
8252:   Function synIsStringType( Value : Word) : TStringType
8253:   Function synGetEOL( Line : PChar) : PChar
8254:   Function synEncodeString( s : string) : string
8255:   Function synDecodeString( s : string) : string
8256:   Procedure synFreeAndNil( var Obj: TObject)
8257:   Procedure synAssert( Expr : Boolean)
8258:   Function synLastDelimiter( const Delimiters, S : string) : Integer
8259:   TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8260:   TReplaceFlags', 'set of TReplaceFlag )
8261:   Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8262:   Function synGetRValue( RGBValue : TColor) : byte
8263:   Function synGetGValue( RGBValue : TColor) : byte
8264:   Function synGetBValue( RGBValue : TColor) : byte
8265:   Function synRGB( r, g, b : Byte) : Cardinal
8266:   // THighlighterAttriProc', 'Function ( Highlighter : TSynCustomHigh'
8267:   // + 'lighter; Attri:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8268:   //Function synEnumHighlighterAttris( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
HighlighterAttriProc: THighlighterAttriProc; Params : array of Pointer) : Boolean
8269:   Function synCalcFCS( const ABuf, ABufSize : Cardinal) : Word
8270:   Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8271: end;
8272:
8273: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM) : WORD
8274: Function GET_DEVICE_LPARAM( lParam : LPARAM) : WORD
8275: Function GET_KEYSTATE_LPARAM( lParam : LPARAM) : WORD
8276:
8277: procedure SIRegister_synautil(CL: TPSPascalCompiler);
8278: begin
8279:   Function STimeZoneBias : integer
8280:   Function TimeZone : string
8281:   Function Rfc822DateTime( t : TDateTime) : string
8282:   Function CDateTime( t : TDateTime) : string
8283:   Function SimpleDateTime( t : TDateTime) : string
8284:   Function AnsiCDateTime( t : TDateTime) : string
8285:   Function GetMonthNumber( Value : string) : integer
8286:   Function GetTimeFromStr( Value : string) : TDateTime
8287:   Function GetDateMDYFromStr( Value : string) : TDateTime
8288:   Function DecodeRfcDateTime( Value : string) : TDateTime

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8289: Function GetUTTime : TDateTime
8290: Function SetUTTime( Newdt : TDateTime) : Boolean
8291: Function SGetTick : LongWord
8292: Function StickDelta( TickOld, TickNew : LongWord) : LongWord
8293: Function CodeInt( Value : Word) : Ansistring
8294: Function DecodeInt( const Value : Ansistring; Index : Integer) : Word
8295: Function CodeLongInt( Value : LongInt) : Ansistring
8296: Function DecodeLongInt( const Value : Ansistring; Index : Integer) : LongInt
8297: Function DumpStr( const Buffer : Ansistring) : string
8298: Function DumpExStr( const Buffer : Ansistring) : string
8299: Procedure Dump( const Buffer : Ansistring; DumpFile : string)
8300: Procedure DumpEx( const Buffer : Ansistring; DumpFile : string)
8301: Function TrimSPLeft( const S : string) : string
8302: Function TrimSPRight( const S : string) : string
8303: Function TrimSP( const S : string) : string
8304: Function SeparateLeft( const Value, Delimiter : string) : string
8305: Function SeparateRight( const Value, Delimiter : string) : string
8306: Function SGetParameter( const Value, Parameter : string) : string
8307: Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings)
8308: Procedure ParseParameters( Value : string; const Parameters : TStrings)
8309: Function IndexByBegin( Value : string; const List : TStrings) : integer
8310: Function GetEmailAddr( const Value : string) : string
8311: Function GetEmailDesc( Value : string) : string
8312: Function CStrToHex( const Value : Ansistring) : string
8313: Function CIntToBin( Value : Integer; Digits : Byte) : string
8314: Function CBinToInt( const Value : string) : Integer
8315: Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8316: Function CReplaceString( Value, Search, Replace : Ansistring) : Ansistring
8317: Function CRPosEx( const Sub, Value : string; From : integer) : Integer
8318: Function CRPos( const Sub, Value : string) : Integer
8319: Function FetchBin( var Value : string; const Delimiter : string) : string
8320: Function CFetch( var Value : string; const Delimiter : string) : string
8321: Function FetchEx( var Value : string; const Delimiter, Quotation : string) : string
8322: Function IsBinaryString( const Value : Ansistring) : Boolean
8323: Function PosCRLF( const Value : Ansistring; var Terminator : Ansistring) : integer
8324: Procedure StringsTrim( const value : TStrings)
8325: Function PosFrom( const SubStr, Value : string; From : integer) : integer
8326: Function IncPoint( const p : __pointer; Value : integer) : __pointer
8327: Function GetBetween( const PairBegin, PairEnd, Value : string) : string
8328: Function CCountOfChar( const Value : string; aChr : char) : integer
8329: Function UnquoteStr( const Value : string; Quote : Char) : string
8330: Function QuoteStr( const Value : string; Quote : Char) : string
8331: Procedure HeadersToList( const Value : TStrings)
8332: Procedure ListToHeaders( const Value : TStrings)
8333: Function SwapBytes( Value : integer) : integer
8334: Function ReadStrFromStream( const Stream : TStream; len : integer) : Ansistring
8335: Procedure WriteStrToStream( const Stream : TStream; Value : Ansistring)
8336: Function GetTempFile( const Dir, prefix : Ansistring) : Ansistring
8337: Function CPadString( const Value : Ansistring; len : integer; Pad : AnsiChar) : Ansistring
8338: Function CXorString( Indata1, Indata2 : Ansistring) : Ansistring
8339: Function NormalizeHeader( Value : TStrings; var Index : Integer) : string
8340: end;
8341:
8342: procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8343: begin
8344:   ('CrcBufSize','LongInt').SetInt( 2048);
8345:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
8346:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
8347:   Function Adler32OfFile( FileName : Ansistring) : LongInt
8348:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8349:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8350:   Function Crc16OfFile( FileName : Ansistring) : Cardinal
8351:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
8352:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
8353:   Function Crc32OfFile( FileName : Ansistring) : LongInt
8354:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8355:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8356:   Function InternetSumOfFile( FileName : Ansistring) : Cardinal
8357:   Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8358:   Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8359:   Function Kermit16OfFile( FileName : Ansistring) : Cardinal
8360: end;
8361:
8362: procedure SIRegister_ComObj(cl: TPSPascalCompiler);
8363: begin
8364:   function CreateOleObject(const ClassName: string): IDispatch;
8365:   function GetActiveOleObject(const ClassName: string): IDispatch;
8366:   function ProgIDToClassID(const ProgID: string): TGUID;
8367:   function ClassIDToProgID(const ClassID: TGUID): string;
8368:   function CreateClassID: string;
8369:   function CreateGUIDString: string;
8370:   function CreateGUIDID: string;
8371:   procedure OleError(ErrorCode: longint)
8372:   procedure OleCheck(Result: HRESULT);
8373: end;
8374:
8375: Function xCreateOleObject( const ClassName : string) : Variant //or IDispatch
8376: Function xGetActiveOleObject( const ClassName : string) : Variant
8377: //Function DllGetClassObject( const CLSID : TCLSID; const IID : TIID; var Obj) : HRESULT

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8378: Function DllCanUnloadNow : HRESULT
8379: Function DllRegisterServer : HRESULT
8380: Function DllUnregisterServer : HRESULT
8381: Function VarFromInterface( Unknown : IUnknown) : Variant
8382: Function VarToInterface( const V : Variant) : IDispatch
8383: Function VarToAutoObject( const V : Variant) : TAutoObject
8384: //Procedure
      DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8385: //Procedure DispInvokeError( Status : HRESULT; const ExcepInfo : TExcepInfo)
8386: Procedure OleError( ErrorCode : HRESULT)
8387: Procedure OleCheck( Result : HRESULT)
8388: Function StringToClassID( const S : string) : TCLSID
8389: Function ClassIDToString( const ClassID : TCLSID) : string
8390: Function xProgIDToClassID( const ProgID : string) : TCLSID
8391: Function xClassIDToProgID( const ClassID : TCLSID) : string
8392: Function xWideCompareStr( const S1, S2 : WideString) : Integer
8393: Function xWideSameStr( const S1, S2 : WideString) : Boolean
8394: Function xGUIDToString( const ClassID : TGUID) : string
8395: Function xStringToGUID( const S : string) : TGUID
8396: Function xGetModuleName( Module : HMODULE) : string
8397: Function xAcquireExceptionObject : TObject
8398: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer) : Integer
8399: Function xUtf8Encode( const WS : WideString) : UTF8String
8400: Function xUtf8Decode( const S : UTF8String) : WideString
8401: Function xExcludeTrailingPathDelimiter( const S : string) : string
8402: Function xIncludeTrailingPathDelimiter( const S : string) : string
8403: Function XRTLHandleCOMException : HRESULT
8404: Procedure XRTLCheckArgument( Flag : Boolean)
8405: //Procedure XRTLCheckOutArgument( out Arg)
8406: Procedure XRTLInterfaceConnect(const Source:IUnknown; const IID:TIID;const Sink:IUnknown;var
      Connection:Longint);
8407: Procedure XRTLInterfaceDisconnect(const Source: IUnknown; const IID:TIID;var Connection : Longint)
8408: Function XRTLRegisterActiveObject(const Unk:IUnknown;ClassID:TCLSID;Flags:DWORD;var
      RegisterCookie:Int):HRESULT
8409: Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer) : HRESULT
8410: //Function XRTLGetActiveObject( ClassID : TCLASSID; RIID : TIID; out Obj) : HRESULT
8411: Procedure XRTLEnumActiveObjects( Strings : TStrings)
8412: function XRTLDefaultCategoryManager: IUnknown;
8413: function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil): Boolean;
8414: // ICatRegister helper functions
8415: function XRTLCreateComponentCategory(CatID: TGUID; CatDescription: WideString;
      LocaleID: TLCID = LOCALE_USER_DEFAULT;
      const CategoryManager: IUnknown = nil): HRESULT;
8416:
8417:
8418: function XRTLRemoveComponentCategory(CatID: TGUID; CatDescription: WideString;
      LocaleID: TLCID = LOCALE_USER_DEFAULT;
      const CategoryManager: IUnknown = nil): HRESULT;
8419:
8420:
8421: function XRTLRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
      const CategoryManager: IUnknown = nil): HRESULT;
8422:
8423: function XRTLUnRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
      const CategoryManager: IUnknown = nil): HRESULT;
8424:
8425: // ICatInformation helper functions
8426: function XRTLGetCategoryDescription(CatID: TGUID; var CatDescription: WideString;
      LocaleID: TLCID = LOCALE_USER_DEFAULT;
      const CategoryManager: IUnknown = nil): HRESULT;
8427:
8428:
8429: function XRTLGetCategoryList(Strings: TStrings; LocaleID: TLCID = LOCALE_USER_DEFAULT;
      const CategoryManager: IUnknown = nil): HRESULT;
8430:
8431: function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
      const CategoryManager: IUnknown = nil): HRESULT;
8432:
8433: function XRTLGetCategoryProgIDList(CatID: TGUID; Strings: TStrings;
      const CategoryManager: IUnknown = nil): HRESULT;
8434:
8435: function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ');
8436: const ADelete: Boolean = True): WideString;
8437: function XRTLFindPos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8438: Function XRTLGetVariantAsString( const Value : Variant) : string
8439: Function XRTLDateTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone) : TDateTime
8440: Function XRTLGetTimeZones : TXRTLTimeZones
8441: Function XFileTimeToDateTime( FileTime : TDateTime) : TDateTime
8442: Function DateTimeToFileTime( DateTime : TDateTime) : TDateTime
8443: Function GMTNow : TDateTime
8444: Function GMTToLocalTime( GMT : TDateTime) : TDateTime
8445: Function LocalTimeToGMT( LocalTime : TDateTime) : TDateTime
8446: Procedure XRTLNotImplemented
8447: Procedure XRTLRaiseError( E : Exception)
8448: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string)
8449:
8450:
8451: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8452: begin
8453:   SIRegister_IXRTLValue(CL);
8454:   SIRegister_TXRTLValue(CL);
8455:   //AddTypes('PXRTLValueArray', '^TXRTLValueArray // will not work
8456:   AddTypes('TXRTLValueArray', 'array of IXRTLValue
8457: Function XRTLValue( const AValue : Cardinal) : IXRTLValue;
8458: Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal) : Cardinal;
8459: Function XRTLGetAsCardinal( const IValue : IXRTLValue) : Cardinal
8460: Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal) : Cardinal
8461: Function XRTLValue1( const AValue : Integer) : IXRTLValue;
8462: Function XRTLSetValue1( const IValue : IXRTLValue; const AValue : Integer) : Integer;
8463: Function XRTLGetAsInteger( const IValue : IXRTLValue) : Integer

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8464: Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer ) : Integer
8465: Function XRTLValue2( const AValue : Int64 ) : IXRTLValue;
8466: Function XRTLSetValue2( const IValue : IXRTLValue; const AValue : Int64 ) : Int64;
8467: Function XRTLGetAsInt64( const IValue : IXRTLValue ) : Int64
8468: Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64 ) : Int64
8469: Function XRTLValue3( const AValue : Single ) : IXRTLValue;
8470: Function XRTLSetValue3( const IValue : IXRTLValue; const AValue : Single ) : Single;
8471: Function XRTLGetAsSingle( const IValue : IXRTLValue ) : Single
8472: Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single ) : Single
8473: Function XRTLValue4( const AValue : Double ) : IXRTLValue;
8474: Function XRTLSetValue4( const IValue : IXRTLValue; const AValue : Double ) : Double;
8475: Function XRTLGetAsDouble( const IValue : IXRTLValue ) : Double
8476: Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double ) : Double
8477: Function XRTLValue5( const AValue : Extended ) : IXRTLValue;
8478: Function XRTLSetValue5( const IValue : IXRTLValue; const AValue : Extended ) : Extended;
8479: Function XRTLGetAsExtended( const IValue : IXRTLValue ) : Extended
8480: Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended ) : Extended
8481: Function XRTLValue6( const AValue : IInterface ) : IXRTLValue;
8482: Function XRTLSetValue6( const IValue : IXRTLValue; const AValue : IInterface ) : IInterface;
8483: Function XRTLGetAsInterface( const IValue : IXRTLValue ) : IInterface;
8484: //Function XRTLGetAsInterface1( const IValue : IXRTLValue; out Obj ) : IInterface;
8485: Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface ) : IInterface;
8486: Function XRTLValue7( const AValue : WideString ) : IXRTLValue;
8487: Function XRTLSetValue7( const IValue : IXRTLValue; const AValue : WideString ) : WideString;
8488: Function XRTLGetAsWideString( const IValue : IXRTLValue ) : WideString
8489: Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString ) : WideString
8490: Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean ) : IXRTLValue;
8491: Function XRTLSetValue8( const IValue : IXRTLValue; const AValue : TObject ) : TObject;
8492: Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean ) : TObject;
8493: Function XRTLGetAsObjectDef( const IValue : IXRTLValue; const DefValue : TObject; const
ADetachOwnership : Boolean ) : TObject;
8494: //Function XRTLValue9( const AValue : __Pointer ) : IXRTLValue;
8495: //Function XRTLSetValue9( const IValue : IXRTLValue; const AValue : __Pointer ) : __Pointer;
8496: //Function XRTLGetAsPointer( const IValue : IXRTLValue ) : __Pointer
8497: //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : __Pointer ) : __Pointer
8498: Function XRTLValueV( const AValue : Variant ) : IXRTLValue;
8499: Function XRTLSetValueV( const IValue : IXRTLValue; const AValue : Variant ) : Variant;
8500: Function XRTLGetAsVariant( const IValue : IXRTLValue ) : Variant
8501: Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant ) : Variant
8502: Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8503: Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8504: Function XRTLGetAsCurrency( const IValue : IXRTLValue ) : Currency
8505: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency
8506: Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8507: Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8508: Function XRTLGetAsComp( const IValue : IXRTLValue ) : Comp
8509: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp
8510: Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8511: Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8512: Function XRTLGetAsClass( const IValue : IXRTLValue ) : TClass
8513: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass
8514: Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8515: Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;
8516: Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID
8517: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID
8518: Function XRTLValue14( const AValue : Boolean ) : IXRTLValue;
8519: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean ) : Boolean;
8520: Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean
8521: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean
8522: end;
8523:
8524: //*****unit uPSI_GR32;*****
8525:
8526: Function Color32( WinColor : TColor ) : TColor32;
8527: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8528: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8529: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32
8530: Function WinColor( Color32 : TColor32 ) : TColor
8531: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32
8532: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte )
8533: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte )
8534: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components
8535: Function RedComponent( Color32 : TColor32 ) : Integer
8536: Function GreenComponent( Color32 : TColor32 ) : Integer
8537: Function BlueComponent( Color32 : TColor32 ) : Integer
8538: Function AlphaComponent( Color32 : TColor32 ) : Integer
8539: Function Intensity( Color32 : TColor32 ) : Integer
8540: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32
8541: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8542: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single );
8543: Function HSLtoRGB1( H, S, L : Integer ) : TColor32;
8544: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte );
8545: Function WinPalette( const P : TPalette32 ) : HPALETTE
8546: Function FloatPoint( X, Y : Single ) : TFloatPoint;
8547: Function FloatPoint1( const P : TPoint ) : TFloatPoint;
8548: Function FloatPoint2( const FXP : TFixedPoint ) : TFloatPoint;
8549: Function FixedPoint( X, Y : Integer ) : TFixedPoint;
8550: Function FixedPoint1( X, Y : Single ) : TFixedPoint;
8551: Function FixedPoint2( const P : TPoint ) : TFixedPoint;

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8552: Function FixedPoint3( const FP : TFloatPoint) : TFixedPoint;
8553:   AddTypeS('TRectRounding', '( rrClosest, rrOutside, rrInside )
8554: Function MakeRect( const L, T, R, B : Integer) : TRect;
8555: Function MakeRect1( const FR : TFloatRect; Rounding : TRectRounding) : TRect;
8556: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding) : TRect;
8557: Function GFixedRect( const L, T, R, B : TFixed) : TRect;
8558: Function FixedRect1( const ARect : TRect) : TRect;
8559: Function FixedRect2( const FR : TFloatRect) : TRect;
8560: Function GFloatRect( const L, T, R, B : TFloat) : TFloatRect;
8561: Function FloatRect1( const ARect : TRect) : TFloatRect;
8562: Function FloatRect2( const FXR : TRect) : TFloatRect;
8563: Function GIntersectRect( out Dst : TRect; const R1, R2 : TRect) : Boolean;
8564: Function IntersectRect1( out Dst : TFloatRect; const FR1, FR2 : TFloatRect) : Boolean;
8565: Function GUnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean;
8566: Function UnionRect1( out Rect : TFloatRect; const R1, R2 : TFloatRect) : Boolean;
8567: Function GEqualRect( const R1, R2 : TRect) : Boolean;
8568: Function EqualRect1( const R1, R2 : TFloatRect) : Boolean;
8569: Procedure GInflateRect( var R : TRect; Dx, Dy : Integer);
8570: Procedure InflateRect1( var FR : TFloatRect; Dx, Dy : TFloat);
8571: Procedure GOffsetRect( var R : TRect; Dx, Dy : Integer);
8572: Procedure OffsetRect1( var FR : TFloatRect; Dx, Dy : TFloat);
8573: Function IsRectEmpty( const R : TRect) : Boolean;
8574: Function IsRectEmpty1( const FR : TFloatRect) : Boolean;
8575: Function GPtInRect( const R : TRect; const P : TPoint) : Boolean;
8576: Function PtInRect1( const R : TFloatRect; const P : TPoint) : Boolean;
8577: Function PtInRect2( const R : TRect; const P : TFloatPoint) : Boolean;
8578: Function PtInRect3( const R : TFloatRect; const P : TFloatPoint) : Boolean;
8579: Function EqualRectSize( const R1, R2 : TRect) : Boolean;
8580: Function EqualRectSize1( const R1, R2 : TFloatRect) : Boolean;
8581: Function MessageBeep( uType : UINT) : BOOL
8582: Function ShowCursor( bShow : BOOL) : Integer
8583: Function SetCursorPos( X, Y : Integer) : BOOL
8584: Function SetCursor( hCursor : HICON) : HCURSOR
8585: Function GetCursorPos( var lpPoint : TPoint) : BOOL
8586: //Function ClipCursor( lpRect : PRect) : BOOL
8587: Function GetClipCursor( var lpRect : TRect) : BOOL
8588: Function GetCursor : HCURSOR
8589: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer) : BOOL
8590: Function GetCaretBlinkTime : UINT
8591: Function SetCaretBlinkTime( uMSeconds : UINT) : BOOL
8592: Function DestroyCaret : BOOL
8593: Function HideCaret( hWnd : HWND) : BOOL
8594: Function ShowCaret( hWnd : HWND) : BOOL
8595: Function SetCaretPos( X, Y : Integer) : BOOL
8596: Function GetCaretPos( var lpPoint : TPoint) : BOOL
8597: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint) : BOOL
8598: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint) : BOOL
8599: Function MapWindowPoints( hWndFrom, hWndTo : HWND; var lpPoints, cPoints : UINT) : Integer
8600: Function WindowFromPoint( Point : TPoint) : HWND
8601: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint) : HWND
8602:
8603:
8604: procedure SIRegister_GR32_Math(CL: TPSPascalCompiler);
8605: begin
8606:   Function FixedFloor( A : TFixed) : Integer
8607:   Function FixedCeil( A : TFixed) : Integer
8608:   Function FixedMul( A, B : TFixed) : TFixed
8609:   Function FixedDiv( A, B : TFixed) : TFixed
8610:   Function OneOver( Value : TFixed) : TFixed
8611:   Function FixedRound( A : TFixed) : Integer
8612:   Function FixedSqr( Value : TFixed) : TFixed
8613:   Function FixedSqrtLP( Value : TFixed) : TFixed
8614:   Function FixedSqrtHP( Value : TFixed) : TFixed
8615:   Function FixedCombine( W, X, Y : TFixed) : TFixed
8616:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat);
8617:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single);
8618:   Function GRHypot( const X, Y : TFloat) : TFloat;
8619:   Function Hypot1( const X, Y : Integer) : Integer;
8620:   Function FastSqrt( const Value : TFloat) : TFloat
8621:   Function FastSqrtBab1( const Value : TFloat) : TFloat
8622:   Function FastSqrtBab2( const Value : TFloat) : TFloat
8623:   Function FastInvSqrt( const Value : Single) : Single;
8624:   Function MulDiv( Multiplicand, Multiplier, Divisor : Integer) : Integer
8625:   Function GRIsPowerOf2( Value : Integer) : Boolean
8626:   Function PrevPowerOf2( Value : Integer) : Integer
8627:   Function NextPowerOf2( Value : Integer) : Integer
8628:   Function Average( A, B : Integer) : Integer
8629:   Function GRSign( Value : Integer) : Integer
8630:   Function FloatMod( x, y : Double) : Double
8631: end;
8632:
8633: procedure SIRegister_GR32_LowLevel(CL: TPSPascalCompiler);
8634: begin
8635:   Function Clamp( const Value : Integer) : Integer;
8636:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword)
8637:   Function StackAlloc( Size : Integer) : Pointer
8638:   Procedure StackFree( P : Pointer)
8639:   Procedure Swap( var A, B : Pointer);
8640:   Procedure Swap1( var A, B : Integer);

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8641: Procedure Swap2( var A, B : TFixed);
8642: Procedure Swap3( var A, B : TColor32);
8643: Procedure TestSwap( var A, B : Integer);
8644: Procedure TestSwap1( var A, B : TFixed);
8645: Function TestClip( var A, B : Integer; const Size : Integer) : Boolean;
8646: Function TestClip1( var A, B : Integer; const Start, Stop : Integer) : Boolean;
8647: Function GRConstrain( const Value, Lo, Hi : Integer) : Integer;
8648: Function Constrain1( const Value, Lo, Hi : Single) : Single;
8649: Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer) : Integer
8650: Function GRMin( const A, B, C : Integer) : Integer;
8651: Function GRMax( const A, B, C : Integer) : Integer;
8652: Function Clamp( Value, Max : Integer) : Integer;
8653: Function Clamp1( Value, Min, Max : Integer) : Integer;
8654: Function Wrap( Value, Max : Integer) : Integer;
8655: Function Wrap1( Value, Min, Max : Integer) : Integer;
8656: Function Wrap3( Value, Max : Single) : Single;
8657: Function WrapPow2( Value, Max : Integer) : Integer;
8658: Function WrapPow21( Value, Min, Max : Integer) : Integer;
8659: Function Mirror( Value, Max : Integer) : Integer;
8660: Function Mirror1( Value, Min, Max : Integer) : Integer;
8661: Function MirrorPow2( Value, Max : Integer) : Integer;
8662: Function MirrorPow21( Value, Min, Max : Integer) : Integer;
8663: Function GetOptimalWrap( Max : Integer) : TWrapProc;
8664: Function GetOptimalWrap1( Min, Max : Integer) : TWrapProcEx;
8665: Function GetOptimalMirror( Max : Integer) : TWrapProc;
8666: Function GetOptimalMirror1( Min, Max : Integer) : TWrapProcEx;
8667: Function GetWrapProc( WrapMode : TWrapMode) : TWrapProc;
8668: Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer) : TWrapProc;
8669: Function GetWrapProcEx( WrapMode : TWrapMode) : TWrapProcEx;
8670: Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer):TWrapProcEx;
8671: Function Div255( Value : Cardinal) : Cardinal
8672: Function SAR_4( Value : Integer) : Integer
8673: Function SAR_8( Value : Integer) : Integer
8674: Function SAR_9( Value : Integer) : Integer
8675: Function SAR_11( Value : Integer) : Integer
8676: Function SAR_12( Value : Integer) : Integer
8677: Function SAR_13( Value : Integer) : Integer
8678: Function SAR_14( Value : Integer) : Integer
8679: Function SAR_15( Value : Integer) : Integer
8680: Function SAR_16( Value : Integer) : Integer
8681: Function ColorSwap( WinColor : TColor) : TColor32
8682: end;
8683:
8684: procedure SIRegister_GR32_Filters(CL: TPSPascalCompiler);
8685: begin
8686:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )
8687:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components);
8688:   Procedure CopyComponents1(Dst:TCustomBmap32;DstX,
DstY:Integer;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8689:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32)
8690:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean)
8691:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32)
8692:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components)
8693:   Procedure InvertRGB( Dst, Src : TCustomBitmap32)
8694:   Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean)
8695:   Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32)
8696:   Function CreateBitmask( Components : TColor32Components) : TColor32
8697:   Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
Bitmask : TColor32; LogicalOperator : TLogicalOperator);
8698:   Procedure
ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8699:   Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean)
8700: end;
8701:
8702:
8703: procedure SIRegister_JclNTFS(CL: TPSPascalCompiler);
8704: begin
8705:   AddClassN(FindClass('TOBJECT'),'EJclNtfsError
8706:   AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )
8707:   Function NtfsGetCompression( const FileName : string; var State : Short) : Boolean;
8708:   Function NtfsGetCompression1( const FileName : string) : TFileCompressionState;
8709:   Function NtfsSetCompression( const FileName : string; const State : Short) : Boolean
8710:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState)
8711:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState)
8712:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState)
8713:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState;Recursive:Boolean;
8714:   //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloca'
8715:   //+tedRangeBuffer; MoreData : Boolean; end
8716:   Function NtfsSetSparse( const FileName : string) : Boolean
8717:   Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Integer) : Boolean
8718:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Integer) : Boolean
8719:   //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Integer;var
Ranges:TNtfsAllocRanges):Boolean;
8720:   //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
Index:Integer):TFileAllocatedRangeBuffer
8721:   Function NtfsSparseStreamsSupported( const Volume : string) : Boolean
8722:   Function NtfsGetSparse( const FileName : string) : Boolean
8723:   Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD) : Boolean
8724:   Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword) : Boolean

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8725: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8726: Function NtfsGetReparseTag( const Path : string; var Tag : DWORD) : Boolean
8727: Function NtfsReparsePointsSupported( const Volume : string) : Boolean
8728: Function NtfsFileHasReparsePoint( const Path : string) : Boolean
8729: Function NtfsFolderMountPoint( const Path : string) : Boolean
8730: Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char) : Boolean
8731: Function NtfsMountVolume( const Volume : Char; const MountPoint : string) : Boolean
8732: AddTypes('TOpenLock', '( olExclusive, olReadOnly, olBatch, olFilter )
8733: Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped) : Boolean
8734: Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped) : Boolean
8735: Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped) : Boolean
8736: Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped) : Boolean
8737: Function NtfsRequestOpLock( Handle : THandle; Kind : TOpenLock; Overlapped : TOverlapped) : Boolean
8738: Function NtfsCreateJunctionPoint( const Source, Destination : string) : Boolean
8739: Function NtfsDeleteJunctionPoint( const Source : string) : Boolean
8740: Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string) : Boolean
8741: AddTypes('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8742: + 'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )
8743: AddTypes('TStreamIds', 'set of TStreamId
8744: AddTypes('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8745: + ' : __Pointer; StreamIds : TStreamIds; end
8746: AddTypes('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8747: + 'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8748: Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8749: Function NtfsFindNextStream( var Data : TFindStreamData) : Boolean
8750: Function NtfsFindStreamClose( var Data : TFindStreamData) : Boolean
8751: Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string) : Boolean
8752: AddTypes('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8753: Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo) : Boolean
8754: Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
List:TStrings):Bool;
8755: Function NtfsDeleteHardLinks( const FileName : string) : Boolean
8756: Function JclAppInstances : TJclAppInstances;
8757: Function JclAppInstances1( const UniqueAppIdGuidStr : string) : TJclAppInstances;
8758: Function ReadMessageCheck( var Message : TMessage;const IgnoredOriginatorWnd: HWND) : TJclAppInstDataKind
8759: Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer)
8760: Procedure ReadMessageString( const Message : TMessage; var S : string)
8761: Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings)
8762:
8763:
8764: (*-----*)
8765: procedure SIRegister_TJclGraphics(CL: TPSPascalCompiler);
8766: begin
8767: FindClass('TOBJECT'),'EJclGraphicsError
8768: TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8769: TDynPointArray', 'array of TPoint
8770: TDynDynPointArrayArray', 'array of TDynPointArray
8771: TPointF', 'record X : Single; Y : Single; end
8772: TDynPointArrayF', 'array of TPointF
8773: TDrawMode2', '( dmOpaque, dmBlend )
8774: TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8775: TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8776: TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8777: TMatrix3d', 'record array[0..2,0..2] of extended end
8778: TDynDynPointArrayArrayF', 'array of TDynPointArrayF
8779: TScanLine', 'array of Integer
8780: TScanLines', 'array of TScanLine
8781: TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8782: TGradientDirection', '( gdVertical, gdHorizontal )
8783: TPolyFillMode', '( fmAlternate, fmWinding )
8784: TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8785: TJclRegionBitmapMode', '( rmInclude, rmExclude )
8786: TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8787: SIRegister_TJclDesktopCanvas(CL);
8788: FindClass('TOBJECT'),'TJclRegion
8789: SIRegister_TJclRegionInfo(CL);
8790: SIRegister_TJclRegion(CL);
8791: SIRegister_TJclThreadPersistent(CL);
8792: SIRegister_TJclCustomMap(CL);
8793: SIRegister_TJclBitmap32(CL);
8794: SIRegister_TJclByteMap(CL);
8795: SIRegister_TJclTransformation(CL);
8796: SIRegister_TJclLinearTransformation(CL);
8797: Procedure Stretch(NewWidth,
NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8798: Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8799: Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8800: Function GetAntialiasedBitmap( const Bitmap : TBitmap) : TBitmap
8801: Procedure BitmapToJpeg( const FileName : string)
8802: Procedure JpegToBitmap( const FileName : string)
8803: Function ExtractIconCount( const FileName : string) : Integer
8804: Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer) : HICON
8805: Function IconToBitmapJ( Icon : HICON) : HBITMAP
8806: Procedure BlockTransfer( Dst : TJclBitmap32; DstX : Integer; DstY : Integer; Src : TJclBitmap32; SrcRect
: TRect; CombineOp : TDrawMode)
8807: Procedure StretchTransfer(Dst:TJclBitmap32;
DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8808: Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8809: Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect)

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8810: Function FillGradient( DC : HDC; ARect : TRect; ColorCount : Integer; StartColor, EndColor : TColor;
ADirection : TGradientDirection ) : Boolean;
8811: Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
RegionBitmapMode:TJclRegionBitmapMode): HRGN
8812: Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND);
8813: Procedure ScreenShot1( bm : TBitmap);
8814: Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8815: Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8816: Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8817: Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8818: Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8819: Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8820: Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8821: Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8822: Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArrayF;Color:TColor32);
8823: Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32)
8824: Procedure IntensityToAlpha( Dst, Src : TJclBitmap32)
8825: Procedure Invert( Dst, Src : TJclBitmap32)
8826: Procedure InvertRGB( Dst, Src : TJclBitmap32)
8827: Procedure ColorToGrayscale( Dst, Src : TJclBitmap32)
8828: Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8)
8829: Procedure SetGamma( Gamma : Single)
8830: end;
8831:
8832: (*-----*)
8833: procedure SIRegister_JclSynch(CL: TPSPascalCompiler);
8834: begin
8835: Function LockedAdd( var Target : Integer; Value : Integer) : Integer
8836: Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer) : Integer;
8837: Function LockedCompareExchange1( var Target : __Pointer; Exch, Comp : __Pointer) : Pointer;
8838: Function LockedDec( var Target : Integer) : Integer
8839: Function LockedExchange( var Target : Integer; Value : Integer) : Integer
8840: Function LockedExchangeAdd( var Target : Integer; Value : Integer) : Integer
8841: Function LockedExchangeDec( var Target : Integer) : Integer
8842: Function LockedExchangeInc( var Target : Integer) : Integer
8843: Function LockedExchangeSub( var Target : Integer; Value : Integer) : Integer
8844: Function LockedInc( var Target : Integer) : Integer
8845: Function LockedSub( var Target : Integer; Value : Integer) : Integer
8846: TJclWaitResult, '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8847: SIRegister_TJclDispatcherObject(CL);
8848: Function WaitForMultipleObjects(const Objects:array of
TJclDispatcherObject;WaitAll:Bool;Timeout:Cardinal):Cardinal;
8849: Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
Timeout : Cardinal):Cardinal
8850: SIRegister_TJclCriticalSection(CL);
8851: SIRegister_TJclCriticalSectionEx(CL);
8852: SIRegister_TJclEvent(CL);
8853: SIRegister_TJclWaitableTimer(CL);
8854: SIRegister_TJclSemaphore(CL);
8855: SIRegister_TJclMutex(CL);
8856: POptexSharedInfo, '^TOptexSharedInfo // will not work
8857: TOptexSharedInfo, 'record SpinCount: Int; LockCount: Int; ThreadId: Longword; RecursionCount: Int; end
8858: SIRegister_TJclOptex(CL);
8859: TMrewPreferred, '( mpReaders, mpWriters, mpEqual )
8860: TMrewThreadInfo, 'record ThreadId : Longword; RecursionCount: Integer; Reader : Boolean; end
8861: TMrewThreadInfoArray, 'array of TMrewThreadInfo
8862: SIRegister_TJclMultiReadExclusiveWrite(CL);
8863: PMetSectSharedInfo, '^TMetSectSharedInfo // will not work
8864: TMetSectSharedInfo, 'record Initialized : LongBool; SpinLock : '
+ 'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8866: PMeteredSection, '^TMeteredSection // will not work
8867: TMeteredSection, 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8868: SIRegister_TJclMeteredSection(CL);
8869: TEventInfo, 'record EventType : Longint; Signaled : LongBool; end
8870: TMutexInfo, 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8871: TSemaphoreCounts, 'record CurrentCount : Longint; MaximumCount : Longint; end
8872: TTimerInfo, 'record Remaining : TLargeInteger; Signaled : LongBool; end
8873: Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTLCriticalSection) : Boolean
8874: Function QueryEvent( Handle : THandle; var Info : TEventInfo) : Boolean
8875: Function QueryMutex( Handle : THandle; var Info : TMutexInfo) : Boolean
8876: Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts) : Boolean
8877: Function QueryTimer( Handle : THandle; var Info : TTimerInfo) : Boolean
8878: FindClass('TOBJECT'),'EJclWin32HandleObjectError
8879: FindClass('TOBJECT'),'EJclDispatcherObjectError
8880: FindClass('TOBJECT'),'EJclCriticalSectionError
8881: FindClass('TOBJECT'),'EJclEventError
8882: FindClass('TOBJECT'),'EJclWaitableTimerError
8883: FindClass('TOBJECT'),'EJclSemaphoreError
8884: FindClass('TOBJECT'),'EJclMutexError
8885: FindClass('TOBJECT'),'EJclMeteredSectionError
8886: end;
8887:
8888:
8889: //*****unit uPSI_mORMotReport;
8890: Procedure SetCurrentPrinterAsDefault
8891: Function CurrentPrinterName : string
8892: Function mCurrentPrinterPaperSize : string
8893: Procedure UseDefaultPrinter
8894:

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8895: procedure SIRegisterTSTREAM(C1: TPSPascalCompiler);
8896: begin
8897:   with FindClass('TOBJECT'), 'TStream' do begin
8898:     IsAbstract := True;
8899:     //RegisterMethod('Function Read( var Buffer, Count : Longint) : Longint
8900:     // RegisterMethod('Function Write( const Buffer, Count : Longint) : Longint
8901:     function Read(Buffer:String;Count:LongInt):LongInt
8902:     function Write(Buffer:String;Count:LongInt):LongInt
8903:     procedure ReadAB(Buffer: TByteArray;Count:LongInt)
8904:     procedure WriteAB(Buffer: TByteArray;Count:LongInt)
8905:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
8906:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
8907:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
8908:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
8909:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
8910:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
8911:
8912:     function Seek(Offset:LongInt;Origin:Word):LongInt
8913:     procedure ReadBuffer(Buffer:String;Count:LongInt)
8914:     procedure WriteBuffer(Buffer:String;Count:LongInt)
8915:     procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
8916:     procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
8917:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
8918:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
8919:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8920:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8921:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8922:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8923:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8924:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8925:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8926:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8927:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8928:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8929:
8930:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
8931:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
8932:     function InstanceSize: Longint
8933:     procedure FixupResourceHeader( FixupInfo : Integer)
8934:     procedure ReadResHeader
8935:
8936:     {$IFDEF DELPHI4UP}
8937:     function CopyFrom(Source:TStream;Count:Int64):LongInt
8938:     {$ELSE}
8939:     function CopyFrom(Source:TStream;Count:Integer):LongInt
8940:     {$ENDIF}
8941:     RegisterProperty('Position', 'LongInt', iptrw);
8942:     RegisterProperty('Size', 'LongInt', iptrw);
8943:   end;
8944: end;
8945:
8946:
8947: { *****
8948:   Unit DMATH - Interface for DMATH.DLL
8949:   ***** }
8950: // see more docs/dmath_manual.pdf
8951:
8952: Function InitEval : Integer
8953: Procedure SetVariable( VarName : Char; Value : Float)
8954: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
8955: Function Eval( ExpressionString : String) : Float
8956:
8957: unit dmath; //types are in built, others are external in DLL
8958: interface
8959: {$IFDEF DELPHI}
8960: uses
8961:   StdCtrls, Graphics;
8962: {$ENDIF}
8963: { -----
8964:   Types and constants
8965:   ----- }
8966: {$i types.inc}
8967: { -----
8968:   Error handling
8969:   ----- }
8970: procedure SetErrCode(ErrCode : Integer); external 'dmath';
8971: { Sets the error code }
8972: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
8973: { Sets error code and default function value }
8974: function MathErr : Integer; external 'dmath';
8975: { Returns the error code }
8976: { -----
8977:   Dynamic arrays
8978:   ----- }
8979: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
8980: { Sets the auto-initialization of arrays }
8981: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
8982: { Creates floating point vector V[0..Ub] }
8983: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';

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8984: { Creates integer vector V[0..Ub] }
8985: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
8986: { Creates complex vector V[0..Ub] }
8987: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
8988: { Creates boolean vector V[0..Ub] }
8989: procedure DimStrVector(var V : TStrVector; Ub : Integer); external 'dmath';
8990: { Creates string vector V[0..Ub] }
8991: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
8992: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
8993: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
8994: { Creates integer matrix A[0..Ub1, 0..Ub2] }
8995: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
8996: { Creates complex matrix A[0..Ub1, 0..Ub2] }
8997: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
8998: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
8999: procedure DimStrMatrix(var A : TStrMatrix; Ub1, Ub2 : Integer); external 'dmath';
9000: { Creates string matrix A[0..Ub1, 0..Ub2] }
9001: { -----
9002:   Minimum, maximum, sign and exchange
9003:   ----- }
9004: function FMin(X, Y : Float) : Float; external 'dmath';
9005: { Minimum of 2 reals }
9006: function FMax(X, Y : Float) : Float; external 'dmath';
9007: { Maximum of 2 reals }
9008: function IMin(X, Y : Integer) : Integer; external 'dmath';
9009: { Minimum of 2 integers }
9010: function IMax(X, Y : Integer) : Integer; external 'dmath';
9011: { Maximum of 2 integers }
9012: function Sgn(X : Float) : Integer; external 'dmath';
9013: { Sign (returns 1 if X = 0) }
9014: function Sgn0(X : Float) : Integer; external 'dmath';
9015: { Sign (returns 0 if X = 0) }
9016: function DSgn(A, B : Float) : Float; external 'dmath';
9017: { Sgn(B) * |A| }
9018: procedure FSwap(var X, Y : Float); external 'dmath';
9019: { Exchange 2 reals }
9020: procedure ISwap(var X, Y : Integer); external 'dmath';
9021: { Exchange 2 integers }
9022: { -----
9023:   Rounding functions
9024:   ----- }
9025: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9026: { Rounds X to N decimal places }
9027: function Ceil(X : Float) : Integer; external 'dmath';
9028: { Ceiling function }
9029: function Floor(X : Float) : Integer; external 'dmath';
9030: { Floor function }
9031: { -----
9032:   Logarithms, exponentials and power
9033:   ----- }
9034: function Expo(X : Float) : Float; external 'dmath';
9035: { Exponential }
9036: function Exp2(X : Float) : Float; external 'dmath';
9037: { 2^X }
9038: function Exp10(X : Float) : Float; external 'dmath';
9039: { 10^X }
9040: function Log(X : Float) : Float; external 'dmath';
9041: { Natural log }
9042: function Log2(X : Float) : Float; external 'dmath';
9043: { Log, base 2 }
9044: function Log10(X : Float) : Float; external 'dmath';
9045: { Decimal log }
9046: function LogA(X, A : Float) : Float; external 'dmath';
9047: { Log, base A }
9048: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9049: { X^N }
9050: function Power(X, Y : Float) : Float; external 'dmath';
9051: { X^Y, X >= 0 }
9052: { -----
9053:   Trigonometric functions
9054:   ----- }
9055: function Pythag(X, Y : Float) : Float; external 'dmath';
9056: { Sqrt(X^2 + Y^2) }
9057: function FixAngle(Theta : Float) : Float; external 'dmath';
9058: { Set Theta in -Pi..Pi }
9059: function Tan(X : Float) : Float; external 'dmath';
9060: { Tangent }
9061: function ArcSin(X : Float) : Float; external 'dmath';
9062: { Arc sinus }
9063: function ArcCos(X : Float) : Float; external 'dmath';
9064: { Arc cosinus }
9065: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9066: { Angle (Ox, OM) with M(X,Y) }
9067: { -----
9068:   Hyperbolic functions
9069:   ----- }
9070: function Sinh(X : Float) : Float; external 'dmath';
9071: { Hyperbolic sine }
9072: function Cosh(X : Float) : Float; external 'dmath';

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9073: { Hyperbolic cosine }
9074: function Tanh(X : Float) : Float; external 'dmath';
9075: { Hyperbolic tangent }
9076: function ArcSinh(X : Float) : Float; external 'dmath';
9077: { Inverse hyperbolic sine }
9078: function ArcCosh(X : Float) : Float; external 'dmath';
9079: { Inverse hyperbolic cosine }
9080: function ArcTanh(X : Float) : Float; external 'dmath';
9081: { Inverse hyperbolic tangent }
9082: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9083: { Sinh & Cosh }
9084: { ----- }
9085:   Gamma function and related functions
9086: { ----- }
9087: function Fact(N : Integer) : Float; external 'dmath';
9088: { Factorial }
9089: function SgnGamma(X : Float) : Integer; external 'dmath';
9090: { Sign of Gamma function }
9091: function Gamma(X : Float) : Float; external 'dmath';
9092: { Gamma function }
9093: function LnGamma(X : Float) : Float; external 'dmath';
9094: { Logarithm of Gamma function }
9095: function Stirling(X : Float) : Float; external 'dmath';
9096: { Stirling's formula for the Gamma function }
9097: function StirLog(X : Float) : Float; external 'dmath';
9098: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9099: function DiGamma(X : Float) : Float; external 'dmath';
9100: { Digamma function }
9101: function TriGamma(X : Float) : Float; external 'dmath';
9102: { Trigamma function }
9103: function IGamma(A, X : Float) : Float; external 'dmath';
9104: { Incomplete Gamma function }
9105: function JGamma(A, X : Float) : Float; external 'dmath';
9106: { Complement of incomplete Gamma function }
9107: function InvGamma(A, P : Float) : Float; external 'dmath';
9108: { Inverse of incomplete Gamma function }
9109: function Erf(X : Float) : Float; external 'dmath';
9110: { Error function }
9111: function Erfc(X : Float) : Float; external 'dmath';
9112: { Complement of error function }
9113: { ----- }
9114:   Beta function and related functions
9115: { ----- }
9116: function Beta(X, Y : Float) : Float; external 'dmath';
9117: { Beta function }
9118: function IBeta(A, B, X : Float) : Float; external 'dmath';
9119: { Incomplete Beta function }
9120: function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9121: { Inverse of incomplete Beta function }
9122: { ----- }
9123:   Lambert's function
9124: { ----- }
9125: function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9126: { ----- }
9127:   Binomial distribution
9128: { ----- }
9129: function Binomial(N, K : Integer) : Float; external 'dmath';
9130: { Binomial coefficient C(N,K) }
9131: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9132: { Probability of binomial distribution }
9133: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9134: { Cumulative probability for binomial distrib. }
9135: { ----- }
9136:   Poisson distribution
9137: { ----- }
9138: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9139: { Probability of Poisson distribution }
9140: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9141: { Cumulative probability for Poisson distrib. }
9142: { ----- }
9143:   Exponential distribution
9144: { ----- }
9145: function DExpo(A, X : Float) : Float; external 'dmath';
9146: { Density of exponential distribution with parameter A }
9147: function FExpo(A, X : Float) : Float; external 'dmath';
9148: { Cumulative probability function for exponential dist. with parameter A }
9149: { ----- }
9150:   Standard normal distribution
9151: { ----- }
9152: function DNorm(X : Float) : Float; external 'dmath';
9153: { Density of standard normal distribution }
9154: function FNorm(X : Float) : Float; external 'dmath';
9155: { Cumulative probability for standard normal distrib. }
9156: function PNorm(X : Float) : Float; external 'dmath';
9157: { Prob(|U| > X) for standard normal distrib. }
9158: function InvNorm(P : Float) : Float; external 'dmath';
9159: { Inverse of standard normal distribution }
9160: { ----- }
9161:   Student's distribution

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9162: ----- }
9163: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9164: { Density of Student distribution with Nu d.o.f. }
9165: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9166: { Cumulative probability for Student distrib. with Nu d.o.f. }
9167: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9168: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9169: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9170: { Inverse of Student's t-distribution function }
9171: { ----- }
9172: { Khi-2 distribution }
9173: ----- }
9174: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9175: { Density of Khi-2 distribution with Nu d.o.f. }
9176: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9177: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9178: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9179: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9180: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9181: { Inverse of Khi-2 distribution function }
9182: { ----- }
9183: { Fisher-Snedecor distribution }
9184: ----- }
9185: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9186: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9187: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9188: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9189: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9190: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9191: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9192: { Inverse of Snedecor's F-distribution function }
9193: { ----- }
9194: { Beta distribution }
9195: ----- }
9196: function DBeta(A, B, X : Float) : Float; external 'dmath';
9197: { Density of Beta distribution with parameters A and B }
9198: function FBeta(A, B, X : Float) : Float; external 'dmath';
9199: { Cumulative probability for Beta distrib. with param. A and B }
9200: { ----- }
9201: { Gamma distribution }
9202: ----- }
9203: function DGamma(A, B, X : Float) : Float; external 'dmath';
9204: { Density of Gamma distribution with parameters A and B }
9205: function FGamma(A, B, X : Float) : Float; external 'dmath';
9206: { Cumulative probability for Gamma distrib. with param. A and B }
9207: { ----- }
9208: { Expression evaluation }
9209: ----- }
9210: function InitEval : Integer; external 'dmath';
9211: { Initializes built-in functions and returns their number }
9212: function Eval(ExpressionString : String) : Float; external 'dmath';
9213: { Evaluates an expression at run-time }
9214: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9215: { Assigns a value to a variable }
9216: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9217: { Adds a function to the parser }
9218: { ----- }
9219: { Matrices and linear equations }
9220: ----- }
9221: procedure GaussJordan(A : TMatrix;
9222:   Lb, Ub1, Ub2 : Integer;
9223:   var Det : Float); external 'dmath';
9224: { Transforms a matrix according to the Gauss-Jordan method }
9225: procedure LinEq(A : TMatrix;
9226:   B : TVector;
9227:   Lb, Ub : Integer;
9228:   var Det : Float); external 'dmath';
9229: { Solves a linear system according to the Gauss-Jordan method }
9230: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9231: { Cholesky factorization of a positive definite symmetric matrix }
9232: procedure LU_Decomp(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9233: { LU decomposition }
9234: procedure LU_Solve(A : TMatrix;
9235:   B : TVector;
9236:   Lb, Ub : Integer;
9237:   X : TVector); external 'dmath';
9238: { Solution of linear system from LU decomposition }
9239: procedure QR_Decomp(A : TMatrix;
9240:   Lb, Ub1, Ub2 : Integer;
9241:   R : TMatrix); external 'dmath';
9242: { QR decomposition }
9243: procedure QR_Solve(Q, R : TMatrix;
9244:   B : TVector;
9245:   Lb, Ub1, Ub2 : Integer;
9246:   X : TVector); external 'dmath';
9247: { Solution of linear system from QR decomposition }
9248: procedure SV_Decomp(A : TMatrix;
9249:   Lb, Ub1, Ub2 : Integer;
9250:   S : TVector);

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9251:          V          : TMatrix); external 'dmath';
9252: { Singular value decomposition }
9253: procedure SV_SetZero(S      : TVector;
9254:                    Lb, Ub : Integer;
9255:                    Tol    : Float); external 'dmath';
9256: { Set lowest singular values to zero }
9257: procedure SV_Solve(U      : TMatrix;
9258:                  S      : TVector;
9259:                  V      : TMatrix;
9260:                  B      : TVector;
9261:                  Lb, Ub1, Ub2 : Integer;
9262:                  X      : TVector); external 'dmath';
9263: { Solution of linear system from SVD }
9264: procedure SV_Approx(U      : TMatrix;
9265:                   S      : TVector;
9266:                   V      : TMatrix;
9267:                   Lb, Ub1, Ub2 : Integer;
9268:                   A      : TMatrix); external 'dmath';
9269: { Matrix approximation from SVD }
9270: procedure EigenVals(A      : TMatrix;
9271:                   Lb, Ub : Integer;
9272:                   Lambda : TCompVector); external 'dmath';
9273: { Eigenvalues of a general square matrix }
9274: procedure EigenVect(A      : TMatrix;
9275:                   Lb, Ub : Integer;
9276:                   Lambda : TCompVector;
9277:                   V      : TMatrix); external 'dmath';
9278: { Eigenvalues and eigenvectors of a general square matrix }
9279: procedure EigenSym(A      : TMatrix;
9280:                   Lb, Ub : Integer;
9281:                   Lambda : TVector;
9282:                   V      : TMatrix); external 'dmath';
9283: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9284: procedure Jacobi(A      : TMatrix;
9285:                 Lb, Ub, MaxIter : Integer;
9286:                 Tol            : Float;
9287:                 Lambda         : TVector;
9288:                 V              : TMatrix); external 'dmath';
9289: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9290: { -----
9291:   Optimization
9292:   ----- }
9293: procedure MinBrack(Func      : TFunc;
9294:                   var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9295: { Brackets a minimum of a function }
9296: procedure GoldSearch(Func      : TFunc;
9297:                     A, B      : Float;
9298:                     MaxIter   : Integer;
9299:                     Tol       : Float;
9300:                     var Xmin, Ymin : Float); external 'dmath';
9301: { Minimization of a function of one variable (golden search) }
9302: procedure LinMin(Func      : TFuncNVar;
9303:                 X, DeltaX : TVector;
9304:                 Lb, Ub    : Integer;
9305:                 var R      : Float;
9306:                 MaxIter   : Integer;
9307:                 Tol       : Float;
9308:                 var F_min : Float); external 'dmath';
9309: { Minimization of a function of several variables along a line }
9310: procedure Newton(Func      : TFuncNVar;
9311:                 HessGrad   : THessGrad;
9312:                 X          : TVector;
9313:                 Lb, Ub     : Integer;
9314:                 MaxIter    : Integer;
9315:                 Tol        : Float;
9316:                 var F_min  : Float;
9317:                 G          : TVector;
9318:                 H_inv      : TMatrix;
9319:                 var Det    : Float); external 'dmath';
9320: { Minimization of a function of several variables (Newton's method) }
9321: procedure SaveNewton(FileName : string); external 'dmath';
9322: { Save Newton iterations in a file }
9323: procedure Marquardt(Func      : TFuncNVar;
9324:                   HessGrad   : THessGrad;
9325:                   X          : TVector;
9326:                   Lb, Ub     : Integer;
9327:                   MaxIter    : Integer;
9328:                   Tol        : Float;
9329:                   var F_min  : Float;
9330:                   G          : TVector;
9331:                   H_inv      : TMatrix;
9332:                   var Det    : Float); external 'dmath';
9333: { Minimization of a function of several variables (Marquardt's method) }
9334: procedure SaveMarquardt(FileName : string); external 'dmath';
9335: { Save Marquardt iterations in a file }
9336: procedure BFGS(Func      : TFuncNVar;
9337:               Gradient   : TGradient;
9338:               X          : TVector;
9339:               Lb, Ub     : Integer;

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9340:             MaxIter   : Integer;
9341:             Tol        : Float;
9342:             var F_min   : Float;
9343:             G           : TVector;
9344:             H_inv       : TMatrix; external 'dmath';
9345: { Minimization of a function of several variables (BFGS method) }
9346: procedure SaveBFGS(FileName : string); external 'dmath';
9347: { Save BFGS iterations in a file }
9348: procedure Simplex(Func      : TFuncNVar;
9349:                   X         : TVector;
9350:                   Lb, Ub    : Integer;
9351:                   MaxIter   : Integer;
9352:                   Tol        : Float;
9353:                   var F_min : Float); external 'dmath';
9354: { Minimization of a function of several variables (Simplex) }
9355: procedure SaveSimplex(FileName : string); external 'dmath';
9356: { Save Simplex iterations in a file }
9357: { -----
9358:   Nonlinear equations
9359: ----- }
9360: procedure RootBrack(Func      : TFunc;
9361:                   var X, Y, FX, FY : Float); external 'dmath';
9362: { Brackets a root of function Func between X and Y }
9363: procedure Bisect(Func      : TFunc;
9364:                 var X, Y : Float;
9365:                 MaxIter   : Integer;
9366:                 Tol        : Float;
9367:                 var F      : Float); external 'dmath';
9368: { Bisection method }
9369: procedure Secant(Func      : TFunc;
9370:                 var X, Y : Float;
9371:                 MaxIter   : Integer;
9372:                 Tol        : Float;
9373:                 var F      : Float); external 'dmath';
9374: { Secant method }
9375: procedure NewtEq(Func, Deriv : TFunc;
9376:                 var X         : Float;
9377:                 MaxIter       : Integer;
9378:                 Tol           : Float;
9379:                 var F         : Float); external 'dmath';
9380: { Newton-Raphson method for a single nonlinear equation }
9381: procedure NewtEqs(Equations : TEquations;
9382:                 Jacobian    : TJacobian;
9383:                 X, F        : TVector;
9384:                 Lb, Ub      : Integer;
9385:                 MaxIter     : Integer;
9386:                 Tol         : Float); external 'dmath';
9387: { Newton-Raphson method for a system of nonlinear equations }
9388: procedure Broyden(Equations : TEquations;
9389:                 X, F        : TVector;
9390:                 Lb, Ub      : Integer;
9391:                 MaxIter     : Integer;
9392:                 Tol         : Float); external 'dmath';
9393: { Broyden's method for a system of nonlinear equations }
9394: { -----
9395:   Polynomials and rational fractions
9396: ----- }
9397: function Poly(X         : Float;
9398:              Coef       : TVector;
9399:              Deg         : Integer) : Float; external 'dmath';
9400: { Evaluates a polynomial }
9401: function RFrac(X         : Float;
9402:               Coef       : TVector;
9403:               Deg1, Deg2 : Integer) : Float; external 'dmath';
9404: { Evaluates a rational fraction }
9405: function RootPol1(A, B : Float;
9406:                 var X : Float) : Integer; external 'dmath';
9407: { Solves the linear equation A + B * X = 0 }
9408: function RootPol2(Coef : TVector;
9409:                 Z       : TCompVector) : Integer; external 'dmath';
9410: { Solves a quadratic equation }
9411: function RootPol3(Coef : TVector;
9412:                 Z       : TCompVector) : Integer; external 'dmath';
9413: { Solves a cubic equation }
9414: function RootPol4(Coef : TVector;
9415:                 Z       : TCompVector) : Integer; external 'dmath';
9416: { Solves a quartic equation }
9417: function RootPol(Coef : TVector;
9418:                 Deg   : Integer;
9419:                 Z      : TCompVector) : Integer; external 'dmath';
9420: { Solves a polynomial equation }
9421: function SetRealRoots(Deg : Integer;
9422:                     Z     : TCompVector;
9423:                     Tol   : Float) : Integer; external 'dmath';
9424: { Set the imaginary part of a root to zero }
9425: procedure SortRoots(Deg : Integer;
9426:                   Z      : TCompVector); external 'dmath';
9427: { Sorts the roots of a polynomial }
9428: { -----

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9429: Numerical integration and differential equations
9430: ----- }
9431: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9432: { Integration by trapezoidal rule }
9433: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9434: { Integral from A to B }
9435: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9436: { Integral from 0 to B }
9437: function Convolve(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9438: { Convolution product at time T }
9439: procedure ConvTrap(Func1, Func2: TFunc; T, Y: TVector; N: Integer); external 'dmath';
9440: { Convolution by trapezoidal rule }
9441: procedure RKF45(F : TDiffEqs;
9442:               Negn : Integer;
9443:               Y, Yp : TVector;
9444:               var T : Float;
9445:               Tout, RelErr, AbsErr : Float;
9446:               var Flag : Integer); external 'dmath';
9447: { Integration of a system of differential equations }
9448: { ----- }
9449: Fast Fourier Transform
9450: ----- }
9451: procedure FFT(NumSamples : Integer;
9452:              InArray, OutArray : TCompVector); external 'dmath';
9453: { Fast Fourier Transform }
9454: procedure IFFT(NumSamples : Integer;
9455:              InArray, OutArray : TCompVector); external 'dmath';
9456: { Inverse Fast Fourier Transform }
9457: procedure FFT_Integer(NumSamples : Integer;
9458:                   RealIn, ImagIn : TIntVector;
9459:                   OutArray : TCompVector); external 'dmath';
9460: { Fast Fourier Transform for integer data }
9461: procedure FFT_Integer_Cleanup; external 'dmath';
9462: { Clear memory after a call to FFT_Integer }
9463: procedure CalcFrequency(NumSamples,
9464:                       FrequencyIndex : Integer;
9465:                       InArray : TCompVector;
9466:                       var FFT : Complex); external 'dmath';
9467: { Direct computation of Fourier transform }
9468: { ----- }
9469: Random numbers
9470: ----- }
9471: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9472: { Select generator }
9473: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9474: { Initialize generator }
9475: function IRanGen : RNG_IntType; external 'dmath';
9476: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9477: function IRanGen31 : RNG_IntType; external 'dmath';
9478: { 31-bit random integer in [0 .. 2^31 - 1] }
9479: function RanGen1 : Float; external 'dmath';
9480: { 32-bit random real in [0,1] }
9481: function RanGen2 : Float; external 'dmath';
9482: { 32-bit random real in [0,1] }
9483: function RanGen3 : Float; external 'dmath';
9484: { 32-bit random real in (0,1) }
9485: function RanGen53 : Float; external 'dmath';
9486: { 53-bit random real in [0,1] }
9487: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9488: { Initializes the 'Multiply with carry' random number generator }
9489: function IRanMWC : RNG_IntType; external 'dmath';
9490: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9491: procedure InitMT(Seed : RNG_IntType); external 'dmath';
9492: { Initializes Mersenne Twister generator with a seed }
9493: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9494:                       KeyLength : Word); external 'dmath';
9495: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9496: function IRanMT : RNG_IntType; external 'dmath';
9497: { Random integer from MT generator }
9498: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9499: { Initializes the UVAG generator with a string }
9500: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9501: { Initializes the UVAG generator with an integer }
9502: function IRanUVAG : RNG_IntType; external 'dmath';
9503: { Random integer from UVAG generator }
9504: function RanGaussStd : Float; external 'dmath';
9505: { Random number from standard normal distribution }
9506: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9507: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9508: procedure RanMult(M : TVector; L : TMatrix;
9509:                 Lb, Ub : Integer;
9510:                 X : TVector); external 'dmath';
9511: { Random vector from multinormal distribution (correlated) }
9512: procedure RanMultIndep(M, S : TVector;
9513:                      Lb, Ub : Integer;
9514:                      X : TVector); external 'dmath';
9515: { Random vector from multinormal distribution (uncorrelated) }
9516: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9517: { Initializes Metropolis-Hastings parameters }

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9518: procedure GetMHPParams(var NCycles, MaxSim, SavedSim: Integer); external 'dmath';
9519: { Returns Metropolis-Hastings parameters }
9520: procedure Hastings(Func      : TFuncNVar;
9521:                    T         : Float;
9522:                    X         : TVector;
9523:                    V         : TMatrix;
9524:                    Lb, Ub    : Integer;
9525:                    Xmat      : TMatrix;
9526:                    X_min     : TVector;
9527:                    var F_min : Float); external 'dmath';
9528: { Simulation of a probability density function by Metropolis-Hastings }
9529: procedure InitGAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9530: { Initializes Simulated Annealing parameters }
9531: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9532: { Initializes log file }
9533: procedure SimAnn(Func      : TFuncNVar;
9534:                  X, Xmin, Xmax : TVector;
9535:                  Lb, Ub      : Integer;
9536:                  var F_min   : Float); external 'dmath';
9537: { Minimization of a function of several var. by simulated annealing }
9538: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9539: { Initializes Genetic Algorithm parameters }
9540: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9541: { Initializes log file }
9542: procedure GenAlg(Func      : TFuncNVar;
9543:                  X, Xmin, Xmax : TVector;
9544:                  Lb, Ub      : Integer;
9545:                  var F_min   : Float); external 'dmath';
9546: { Minimization of a function of several var. by genetic algorithm }
9547: { -----
9548:   Statistics
9549: ----- }
9550: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9551: { Mean of sample X }
9552: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9553: { Minimum of sample X }
9554: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9555: { Maximum of sample X }
9556: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9557: { Median of sample X }
9558: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9559: { Standard deviation estimated from sample X }
9560: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9561: { Standard deviation of population }
9562: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9563: { Correlation coefficient }
9564: function Skewness(X : TVector; Lb, Ub : Integer; M, Sigma: Float) : Float; external 'dmath';
9565: { Skewness of sample X }
9566: function Kurtosis(X : TVector; Lb, Ub : Integer; M, Sigma: Float) : Float; external 'dmath';
9567: { Kurtosis of sample X }
9568: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9569: { Quick sort (ascending order) }
9570: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9571: { Quick sort (descending order) }
9572: procedure Interval(X1, X2      : Float;
9573:                  MinDiv, MaxDiv : Integer;
9574:                  var Min, Max, Step : Float); external 'dmath';
9575: { Determines an interval for a set of values }
9576: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9577:                   var XMin, XMax, XStep : Float); external 'dmath';
9578: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9579: procedure StudIndep(N1, N2      : Integer;
9580:                   M1, M2, S1, S2 : Float;
9581:                   var T          : Float;
9582:                   var DoF        : Integer); external 'dmath';
9583: { Student t-test for independent samples }
9584: procedure StudPaired(X, Y : TVector;
9585:                   Lb, Ub : Integer;
9586:                   var T : Float;
9587:                   var DoF : Integer); external 'dmath';
9588: { Student t-test for paired samples }
9589: procedure AnOVA1(Ns      : Integer;
9590:                 N        : TIntVector;
9591:                 M, S     : TVector;
9592:                 var V_f, V_r, F : Float;
9593:                 var DoF_f, DoF_r : Integer); external 'dmath';
9594: { One-way analysis of variance }
9595: procedure AnOVA2(NA, NB, Nobs : Integer;
9596:                 M, S        : TMatrix;
9597:                 V, F        : TVector;
9598:                 DoF        : TIntVector); external 'dmath';
9599: { Two-way analysis of variance }
9600: procedure Snedecor(N1, N2      : Integer;
9601:                   S1, S2     : Float;
9602:                   var F      : Float;
9603:                   var DoF1, DoF2 : Integer); external 'dmath';
9604: { Snedecor's F-test (comparison of two variances) }
9605: procedure Bartlett(Ns      : Integer;
9606:                   N        : TIntVector;

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9607:         S      : TVector;
9608:     var Khi2 : Float;
9609:     var DoF   : Integer); external 'dmath';
9610: { Bartlett's test (comparison of several variances) }
9611: procedure Mann_Whitney(N1, N2      : Integer;
9612:                       X1, X2      : TVector;
9613:                       var U, Eps : Float); external 'dmath';
9614: { Mann-Whitney test }
9615: procedure Wilcoxon(X, Y      : TVector;
9616:                   Lb, Ub     : Integer;
9617:                   var Ndiff  : Integer;
9618:                   var T, Eps : Float); external 'dmath';
9619: { Wilcoxon test }
9620: procedure Kruskal_Wallis(Ns      : Integer;
9621:                          N       : TIntVector;
9622:                          X       : TMatrix;
9623:                          var H   : Float;
9624:                          var DoF : Integer); external 'dmath';
9625: { Kruskal-Wallis test }
9626: procedure Khi2_Conform(N_cls      : Integer;
9627:                       N_estim     : Integer;
9628:                       Obs         : TIntVector;
9629:                       Calc        : TVector;
9630:                       var Khi2    : Float;
9631:                       var DoF     : Integer); external 'dmath';
9632: { Khi-2 test for conformity }
9633: procedure Khi2_Indep(N_lin      : Integer;
9634:                    N_col       : Integer;
9635:                    Obs         : TIntMatrix;
9636:                    var Khi2    : Float;
9637:                    var DoF     : Integer); external 'dmath';
9638: { Khi-2 test for independence }
9639: procedure Woolf_Conform(N_cls      : Integer;
9640:                       N_estim     : Integer;
9641:                       Obs         : TIntVector;
9642:                       Calc        : TVector;
9643:                       var G       : Float;
9644:                       var DoF     : Integer); external 'dmath';
9645: { Woolf's test for conformity }
9646: procedure Woolf_Indep(N_lin      : Integer;
9647:                    N_col       : Integer;
9648:                    Obs         : TIntMatrix;
9649:                    var G       : Float;
9650:                    var DoF     : Integer); external 'dmath';
9651: { Woolf's test for independence }
9652: procedure DimStatClassVector(var C : TStatClassVector;
9653:                             Ub    : Integer); external 'dmath';
9654: { Allocates an array of statistical classes: C[0..Ub] }
9655: procedure Distrib(X      : TVector;
9656:                 Lb, Ub   : Integer;
9657:                 A, B, H  : Float;
9658:                 C        : TStatClassVector); external 'dmath';
9659: { Distributes an array X[Lb..Ub] into statistical classes }
9660: { -----
9661:   Linear / polynomial regression
9662:   ----- }
9663: procedure LinFit(X, Y      : TVector;
9664:                 Lb, Ub     : Integer;
9665:                 B          : TVector;
9666:                 V          : TMatrix); external 'dmath';
9667: { Linear regression : Y = B(0) + B(1) * X }
9668: procedure WLinFit(X, Y, S : TVector;
9669:                 Lb, Ub   : Integer;
9670:                 B        : TVector;
9671:                 V        : TMatrix); external 'dmath';
9672: { Weighted linear regression : Y = B(0) + B(1) * X }
9673: procedure SVDLinFit(X, Y      : TVector;
9674:                   Lb, Ub     : Integer;
9675:                   SVDTol    : Float;
9676:                   B         : TVector;
9677:                   V         : TMatrix); external 'dmath';
9678: { Unweighted linear regression by singular value decomposition }
9679: procedure WSVDLinFit(X, Y, S : TVector;
9680:                   Lb, Ub   : Integer;
9681:                   SVDTol  : Float;
9682:                   B       : TVector;
9683:                   V       : TMatrix); external 'dmath';
9684: { Weighted linear regression by singular value decomposition }
9685: procedure MulFit(X      : TMatrix;
9686:                 Y       : TVector;
9687:                 Lb, Ub, Nvar : Integer;
9688:                 ConsTerm  : Boolean;
9689:                 B         : TVector;
9690:                 V         : TMatrix); external 'dmath';
9691: { Multiple linear regression by Gauss-Jordan method }
9692: procedure WMulFit(X      : TMatrix;
9693:                  Y, S    : TVector;
9694:                  Lb, Ub, Nvar : Integer;
9695:                  ConsTerm  : Boolean;

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9696:         B          : TVector;
9697:         V          : TMatrix); external 'dmath';
9698: { Weighted multiple linear regression by Gauss-Jordan method }
9699: procedure SVDFit(X      : TMatrix;
9700:                 Y      : TVector;
9701:                 Lb, Ub, Nvar : Integer;
9702:                 ConstTerm : Boolean;
9703:                 SVDTol   : Float;
9704:                 B        : TVector;
9705:                 V        : TMatrix); external 'dmath';
9706: { Multiple linear regression by singular value decomposition }
9707: procedure WSVDFit(X      : TMatrix;
9708:                  Y, S    : TVector;
9709:                  Lb, Ub, Nvar : Integer;
9710:                  ConstTerm : Boolean;
9711:                  SVDTol   : Float;
9712:                  B        : TVector;
9713:                  V        : TMatrix); external 'dmath';
9714: { Weighted multiple linear regression by singular value decomposition }
9715: procedure PolFit(X, Y      : TVector;
9716:                 Lb, Ub, Deg : Integer;
9717:                 B          : TVector;
9718:                 V          : TMatrix); external 'dmath';
9719: { Polynomial regression by Gauss-Jordan method }
9720: procedure WPolFit(X, Y, S    : TVector;
9721:                  Lb, Ub, Deg : Integer;
9722:                  B          : TVector;
9723:                  V          : TMatrix); external 'dmath';
9724: { Weighted polynomial regression by Gauss-Jordan method }
9725: procedure SVDPolFit(X, Y      : TVector;
9726:                    Lb, Ub, Deg : Integer;
9727:                    SVDTol   : Float;
9728:                    B        : TVector;
9729:                    V        : TMatrix); external 'dmath';
9730: { Unweighted polynomial regression by singular value decomposition }
9731: procedure WSVDPolFit(X, Y, S    : TVector;
9732:                     Lb, Ub, Deg : Integer;
9733:                     SVDTol   : Float;
9734:                     B        : TVector;
9735:                     V        : TMatrix); external 'dmath';
9736: { Weighted polynomial regression by singular value decomposition }
9737: procedure RegTest(Y, Ycalc : TVector;
9738:                  LbY, UbY : Integer;
9739:                  V        : TMatrix;
9740:                  LbV, UbV : Integer;
9741:                  var Test : TRegTest); external 'dmath';
9742: { Test of unweighted regression }
9743: procedure WRegTest(Y, Ycalc, S : TVector;
9744:                   LbY, UbY    : Integer;
9745:                   V          : TMatrix;
9746:                   LbV, UbV    : Integer;
9747:                   var Test    : TRegTest); external 'dmath';
9748: { Test of weighted regression }
9749: { -----
9750:   Nonlinear regression
9751:   ----- }
9752: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';
9753: { Sets the optimization algorithm for nonlinear regression }
9754: function GetOptAlgo : TOptAlgo; external 'dmath';
9755: { Returns the optimization algorithm }
9756: procedure SetMaxParam(N : Byte); external 'dmath';
9757: { Sets the maximum number of regression parameters for nonlinear regression }
9758: function GetMaxParam : Byte; external 'dmath';
9759: { Returns the maximum number of regression parameters for nonlinear regression }
9760: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9761: { Sets the bounds on the I-th regression parameter }
9762: procedure GetParamBounds(I : Byte; var ParamMin, ParamMax : Float); external 'dmath';
9763: { Returns the bounds on the I-th regression parameter }
9764: procedure NLFit(RegFunc : TRegFunc;
9765:                DerivProc : TDerivProc;
9766:                X, Y      : TVector;
9767:                Lb, Ub    : Integer;
9768:                MaxIter   : Integer;
9769:                Tol       : Float;
9770:                B         : TVector;
9771:                FirstPar, LastPar : Integer;
9772:                V         : TMatrix); external 'dmath';
9773: { Unweighted nonlinear regression }
9774: procedure WNLFit(RegFunc : TRegFunc;
9775:                 DerivProc : TDerivProc;
9776:                 X, Y, S    : TVector;
9777:                 Lb, Ub    : Integer;
9778:                 MaxIter   : Integer;
9779:                 Tol       : Float;
9780:                 B         : TVector;
9781:                 FirstPar, LastPar : Integer;
9782:                 V         : TMatrix); external 'dmath';

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9785: { Weighted nonlinear regression }
9786: procedure SetMCFile(FileName : String); external 'dmath';
9787: { Set file for saving MCMC simulations }
9788: procedure SimFit(RegFunc : TRegFunc;
9789:                 X, Y      : TVector;
9790:                 Lb, Ub     : Integer;
9791:                 B          : TVector;
9792:                 FirstPar,
9793:                 LastPar    : Integer;
9794:                 V          : TMatrix); external 'dmath';
9795: { Simulation of unweighted nonlinear regression by MCMC }
9796: procedure WSimFit(RegFunc : TRegFunc;
9797:                  X, Y, S   : TVector;
9798:                  Lb, Ub    : Integer;
9799:                  B         : TVector;
9800:                  FirstPar,
9801:                  LastPar   : Integer;
9802:                  V         : TMatrix); external 'dmath';
9803: { Simulation of weighted nonlinear regression by MCMC }
9804: { -----
9805:   Nonlinear regression models
9806: ----- }
9807: procedure FracFit(X, Y      : TVector;
9808:                  Lb, Ub     : Integer;
9809:                  Deg1, Deg2 : Integer;
9810:                  ConsTerm   : Boolean;
9811:                  MaxIter    : Integer;
9812:                  Tol        : Float;
9813:                  B          : TVector;
9814:                  V          : TMatrix); external 'dmath';
9815: { Unweighted fit of rational fraction }
9816: procedure WFracFit(X, Y, S : TVector;
9817:                   Lb, Ub   : Integer;
9818:                   Deg1, Deg2 : Integer;
9819:                   ConsTerm  : Boolean;
9820:                   MaxIter   : Integer;
9821:                   Tol       : Float;
9822:                   B         : TVector;
9823:                   V         : TMatrix); external 'dmath';
9824: { Weighted fit of rational fraction }
9825:
9826: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9827: { Returns the value of the rational fraction at point X }
9828: procedure ExpFit(X, Y      : TVector;
9829:                  Lb, Ub, Nexp : Integer;
9830:                  ConsTerm     : Boolean;
9831:                  MaxIter      : Integer;
9832:                  Tol          : Float;
9833:                  B            : TVector;
9834:                  V            : TMatrix); external 'dmath';
9835: { Unweighted fit of sum of exponentials }
9836: procedure WExpFit(X, Y, S : TVector;
9837:                  Lb, Ub, Nexp : Integer;
9838:                  ConsTerm     : Boolean;
9839:                  MaxIter      : Integer;
9840:                  Tol          : Float;
9841:                  B            : TVector;
9842:                  V            : TMatrix); external 'dmath';
9843: { Weighted fit of sum of exponentials }
9844: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9845: { Returns the value of the regression function at point X }
9846: procedure IncExpFit(X, Y      : TVector;
9847:                    Lb, Ub     : Integer;
9848:                    ConsTerm   : Boolean;
9849:                    MaxIter    : Integer;
9850:                    Tol        : Float;
9851:                    B          : TVector;
9852:                    V          : TMatrix); external 'dmath';
9853: { Unweighted fit of model of increasing exponential }
9854: procedure WIncExpFit(X, Y, S : TVector;
9855:                     Lb, Ub   : Integer;
9856:                     ConsTerm  : Boolean;
9857:                     MaxIter   : Integer;
9858:                     Tol       : Float;
9859:                     B         : TVector;
9860:                     V         : TMatrix); external 'dmath';
9861: { Weighted fit of increasing exponential }
9862: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9863: { Returns the value of the regression function at point X }
9864: procedure ExpLinFit(X, Y      : TVector;
9865:                    Lb, Ub     : Integer;
9866:                    MaxIter    : Integer;
9867:                    Tol        : Float;
9868:                    B          : TVector;
9869:                    V          : TMatrix); external 'dmath';
9870: { Unweighted fit of the "exponential + linear" model }
9871: procedure WExpLinFit(X, Y, S : TVector;
9872:                     Lb, Ub   : Integer;
9873:                     MaxIter  : Integer;

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9874:         Tol      : Float;
9875:         B         : TVector;
9876:         V         : TMatrix); external 'dmath';
9877: { Weighted fit of the "exponential + linear" model }
9878:
9879: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9880: { Returns the value of the regression function at point X }
9881: procedure MichFit(X, Y      : TVector;
9882:                  Lb, Ub    : Integer;
9883:                  MaxIter   : Integer;
9884:                  Tol       : Float;
9885:                  B         : TVector;
9886:                  V         : TMatrix); external 'dmath';
9887: { Unweighted fit of Michaelis equation }
9888: procedure WMichFit(X, Y, S : TVector;
9889:                  Lb, Ub    : Integer;
9890:                  MaxIter   : Integer;
9891:                  Tol       : Float;
9892:                  B         : TVector;
9893:                  V         : TMatrix); external 'dmath';
9894: { Weighted fit of Michaelis equation }
9895: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9896: { Returns the value of the Michaelis equation at point X }
9897: procedure MintFit(X, Y      : TVector;
9898:                  Lb, Ub    : Integer;
9899:                  MintVar   : TMintVar;
9900:                  Fit_S0    : Boolean;
9901:                  MaxIter   : Integer;
9902:                  Tol       : Float;
9903:                  B         : TVector;
9904:                  V         : TMatrix); external 'dmath';
9905: { Unweighted fit of the integrated Michaelis equation }
9906: procedure WMintFit(X, Y, S : TVector;
9907:                  Lb, Ub    : Integer;
9908:                  MintVar   : TMintVar;
9909:                  Fit_S0    : Boolean;
9910:                  MaxIter   : Integer;
9911:                  Tol       : Float;
9912:                  B         : TVector;
9913:                  V         : TMatrix); external 'dmath';
9914: { Weighted fit of the integrated Michaelis equation }
9915: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9916: { Returns the value of the integrated Michaelis equation at point X }
9917: procedure HillFit(X, Y      : TVector;
9918:                  Lb, Ub    : Integer;
9919:                  MaxIter   : Integer;
9920:                  Tol       : Float;
9921:                  B         : TVector;
9922:                  V         : TMatrix); external 'dmath';
9923: { Unweighted fit of Hill equation }
9924: procedure WHillFit(X, Y, S : TVector;
9925:                  Lb, Ub    : Integer;
9926:                  MaxIter   : Integer;
9927:                  Tol       : Float;
9928:                  B         : TVector;
9929:                  V         : TMatrix); external 'dmath';
9930: { Weighted fit of Hill equation }
9931: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9932: { Returns the value of the Hill equation at point X }
9933: procedure LogiFit(X, Y      : TVector;
9934:                  Lb, Ub    : Integer;
9935:                  ConsTerm  : Boolean;
9936:                  General   : Boolean;
9937:                  MaxIter   : Integer;
9938:                  Tol       : Float;
9939:                  B         : TVector;
9940:                  V         : TMatrix); external 'dmath';
9941: { Unweighted fit of logistic function }
9942: procedure WLogiFit(X, Y, S : TVector;
9943:                  Lb, Ub    : Integer;
9944:                  ConsTerm  : Boolean;
9945:                  General   : Boolean;
9946:                  MaxIter   : Integer;
9947:                  Tol       : Float;
9948:                  B         : TVector;
9949:                  V         : TMatrix); external 'dmath';
9950: { Weighted fit of logistic function }
9951: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9952: { Returns the value of the logistic function at point X }
9953: procedure PKFit(X, Y      : TVector;
9954:                  Lb, Ub    : Integer;
9955:                  MaxIter   : Integer;
9956:                  Tol       : Float;
9957:                  B         : TVector;
9958:                  V         : TMatrix); external 'dmath';
9959: { Unweighted fit of the acid-base titration curve }
9960: procedure WPKFit(X, Y, S : TVector;
9961:                  Lb, Ub    : Integer;
9962:                  MaxIter   : Integer;

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9963:         Tol      : Float;
9964:         B         : TVector;
9965:         V         : TMatrix); external 'dmath';
9966: { Weighted fit of the acid-base titration curve }
9967: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9968: { Returns the value of the acid-base titration function at point X }
9969: procedure PowFit(X, Y      : TVector;
9970:                 Lb, Ub    : Integer;
9971:                 MaxIter   : Integer;
9972:                 Tol       : Float;
9973:                 B         : TVector;
9974:                 V         : TMatrix); external 'dmath';
9975: { Unweighted fit of power function }
9976: procedure WPowFit(X, Y, S : TVector;
9977:                 Lb, Ub    : Integer;
9978:                 MaxIter   : Integer;
9979:                 Tol       : Float;
9980:                 B         : TVector;
9981:                 V         : TMatrix); external 'dmath';
9982: { Weighted fit of power function }
9983:
9984: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9985: { Returns the value of the power function at point X }
9986: procedure GammaFit(X, Y      : TVector;
9987:                  Lb, Ub    : Integer;
9988:                  MaxIter   : Integer;
9989:                  Tol       : Float;
9990:                  B         : TVector;
9991:                  V         : TMatrix); external 'dmath';
9992: { Unweighted fit of gamma distribution function }
9993: procedure WGammaFit(X, Y, S : TVector;
9994:                  Lb, Ub    : Integer;
9995:                  MaxIter   : Integer;
9996:                  Tol       : Float;
9997:                  B         : TVector;
9998:                  V         : TMatrix); external 'dmath';
9999: { Weighted fit of gamma distribution function }
10000: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10001: { Returns the value of the gamma distribution function at point X }
10002: { -----
10003:   Principal component analysis
10004:   ----- }
10005: procedure VecMean(X      : TMatrix;
10006:                 Lb, Ub, Nvar : Integer;
10007:                 M          : TVector); external 'dmath';
10008: { Computes the mean vector M from matrix X }
10009: procedure VecSD(X      : TMatrix;
10010:                Lb, Ub, Nvar : Integer;
10011:                M, S        : TVector); external 'dmath';
10012: { Computes the vector of standard deviations S from matrix X }
10013: procedure MatVarCov(X      : TMatrix;
10014:                   Lb, Ub, Nvar : Integer;
10015:                   M          : TVector;
10016:                   V          : TMatrix); external 'dmath';
10017: { Computes the variance-covariance matrix V from matrix X }
10018: procedure MatCorrel(V      : TMatrix;
10019:                   Nvar : Integer;
10020:                   R      : TMatrix); external 'dmath';
10021: { Computes the correlation matrix R from the var-cov matrix V }
10022: procedure PCA(R      : TMatrix;
10023:              Nvar : Integer;
10024:              Lambda : TVector;
10025:              C, Rc   : TMatrix); external 'dmath';
10026: { Performs a principal component analysis of the correlation matrix R }
10027: procedure ScaleVar(X      : TMatrix;
10028:                  Lb, Ub, Nvar : Integer;
10029:                  M, S        : TVector;
10030:                  Z          : TMatrix); external 'dmath';
10031: { Scales a set of variables by subtracting means and dividing by SD's }
10032: procedure PrinFac(Z      : TMatrix;
10033:                  Lb, Ub, Nvar : Integer;
10034:                  C, F        : TMatrix); external 'dmath';
10035: { Computes principal factors }
10036: { -----
10037:   Strings
10038:   ----- }
10039: function LTrim(S : String) : String; external 'dmath';
10040: { Removes leading blanks }
10041: function RTrim(S : String) : String; external 'dmath';
10042: { Removes trailing blanks }
10043: function Trim(S : String) : String; external 'dmath';
10044: { Removes leading and trailing blanks }
10045: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10046: { Returns a string made of character C repeated N times }
10047: function RFill(S : String; L : Byte) : String; external 'dmath';
10048: { Completes string S with trailing blanks for a total length L }
10049: function LFill(S : String; L : Byte) : String; external 'dmath';
10050: { Completes string S with leading blanks for a total length L }
10051: function CFill(S : String; L : Byte) : String; external 'dmath';

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10052: { Centers string S on a total length L }
10053: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10054: { Replaces in string S all the occurrences of C1 by C2 }
10055: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10056: { Extracts a field from a string }
10057: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10058: { Parses a string into its constitutive fields }
10059: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10060: { Sets the numeric format }
10061: function FloatStr(X : Float) : String; external 'dmath';
10062: { Converts a real to a string according to the numeric format }
10063: function IntStr(N : LongInt) : String; external 'dmath';
10064: { Converts an integer to a string }
10065: function CompStr(Z : Complex) : String; external 'dmath';
10066: { Converts a complex number to a string }
10067: {$IFDEF DELPHI}
10068: function StrDec(S : String) : String; external 'dmath';
10069: { Set decimal separator to the symbol defined in SysUtils }
10070: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10071: { Test if a string represents a number and returns it in X }
10072: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10073: { Reads a floating point number from an Edit control }
10074: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10075: { Writes a floating point number in a text file }
10076: {$ENDIF}
10077: { -----
10078:   BGI / Delphi graphics
10079: ----- }
10080: function InitGraphics
10081: {$IFDEF DELPHI}
10082: (Width, Height : Integer) : Boolean;
10083: {$ELSE}
10084: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10085: { Enters graphic mode }
10086: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10087:   X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10088: { Sets the graphic window }
10089: procedure SetOxScale(Scale
10090:   OxMin, OxMax, OxStep : Float); external 'dmath';
10091: { Sets the scale on the Ox axis }
10092: procedure SetOyScale(Scale
10093:   OyMin, OyMax, OyStep : Float); external 'dmath';
10094: { Sets the scale on the Oy axis }
10095: procedure GetOxScale(var Scale
10096:   var OxMin, OxMax, OxStep : Float); external 'dmath';
10097: { Returns the scale on the Ox axis }
10098: procedure GetOyScale(var Scale
10099:   var OyMin, OyMax, OyStep : Float); external 'dmath';
10100: { Returns the scale on the Oy axis }
10101: procedure SetGraphTitle(Title : String); external 'dmath'; { Sets the title for the graph }
10102: procedure SetOxTitle(Title : String); external 'dmath'; { Sets the title for the Ox axis }
10103: procedure SetOyTitle(Title : String); external 'dmath'; { Sets the title for the Oy axis }
10104: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10105: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10106: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10107: {$IFDEF DELPHI}
10108: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10109: { Sets the font for the main graph title }
10110: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10111: { Sets the font for the Ox axis (title and labels) }
10112: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10113: { Sets the font for the Oy axis (title and labels) }
10114: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10115: { Sets the font for the legends }
10116: procedure SetClipping(Clip : Boolean); external 'dmath';
10117: { Determines whether drawings are clipped at the current viewport
10118:   boundaries, according to the value of the Boolean parameter Clip }
10119: {$ENDIF}
10120: procedure PlotOxAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10121: { Plots the horizontal axis }
10122: procedure PlotOyAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10123: { Plots the vertical axis }
10124: procedure PlotGrid({$IFDEF DELPHI}Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10125: { Plots a grid on the graph }
10126: procedure WriteGraphTitle{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10127: { Writes the title of the graph }
10128: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10129: { Sets the maximum number of curves and re-initializes their parameters }
10130: procedure SetPointParam
10131: {$IFDEF DELPHI}
10132: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10133: {$ELSE}
10134: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10135: { Sets the point parameters for curve # CurvIndex }
10136: procedure SetLineParam
10137: {$IFDEF DELPHI}
10138: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10139: {$ELSE}
10140: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';

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10141: { Sets the line parameters for curve # CurvIndex }
10142: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10143: { Sets the legend for curve # CurvIndex }
10144: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10145: { Sets the step for curve # CurvIndex }
10146: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10147: procedure GetPointParam
10148: {$IFDEF DELPHI}
10149: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10150: {$ELSE}
10151: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10152: { Returns the point parameters for curve # CurvIndex }
10153: procedure GetLineParam
10154: {$IFDEF DELPHI}
10155: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10156: {$ELSE}
10157: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10158: { Returns the line parameters for curve # CurvIndex }
10159: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10160: { Returns the legend for curve # CurvIndex }
10161: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10162: { Returns the step for curve # CurvIndex }
10163: {$IFDEF DELPHI}
10164: procedure PlotPoint(Canvas : TCanvas;
10165:                     X, Y : Float; CurvIndex : Integer); external 'dmath';
10166: {$ELSE}
10167: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10168: {$ENDIF}
10169: { Plots a point on the screen }
10170: procedure PlotCurve({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10171:                     X, Y : TVector;
10172:                     Lb, Ub, CurvIndex : Integer); external 'dmath';
10173: { Plots a curve }
10174: procedure PlotCurveWithErrorBars({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10175:                                   X, Y, S : TVector;
10176:                                   Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10177: { Plots a curve with error bars }
10178: procedure PlotFunc({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10179:                    Func : TFunc;
10180:                    Xmin, Xmax : Float;
10181:                    {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10182:                    CurvIndex : Integer); external 'dmath';
10183: { Plots a function }
10184: procedure WriteLegend({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10185:                       NCurv : Integer;
10186:                       ShowPoints, ShowLines : Boolean); external 'dmath';
10187: { Writes the legends for the plotted curves }
10188: procedure ConRec({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10189:                  Nx, Ny, Nc : Integer;
10190:                  X, Y, Z : TVector;
10191:                  F : TMatrix); external 'dmath';
10192: { Contour plot }
10193: function Xpixel(X : Float):Integer; external 'dmath'; {Converts user abscissa X to screen coordinate }
10194: function Ypixel(Y : Float):Integer; external 'dmath'; {Converts user ordinate Y to screen coordinate }
10195: function Xuser(X : Integer):Float; external 'dmath'; {Converts screen coordinate X to user abscissa }
10196: function Yuser(Y : Integer):Float; external 'dmath'; {Converts screen coordinate Y to user ordinate }
10197: {$IFDEF DELPHI}
10198: procedure LeaveGraphics; external 'dmath';
10199: { Quits graphic mode }
10200: {$ENDIF}
10201: { -----
10202: LaTeX graphics
10203: ----- }
10204: function TeX_InitGraphics(FileName : String; PgWidth, PgHeight : Integer;
10205:                           Header : Boolean) : Boolean; external 'dmath';
10206: { Initializes the LaTeX file }
10207: procedure TeX_SetWindow(X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10208: { Sets the graphic window }
10209: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10210: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10211: { Sets the scale on the Ox axis }
10212: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10213: { Sets the scale on the Oy axis }
10214: procedure TeX_SetGraphTitle(Title : String); external 'dmath'; { Sets the title for the graph }
10215: procedure TeX_SetOxTitle(Title : String); external 'dmath'; { Sets the title for the Ox axis }
10216: procedure TeX_SetOyTitle(Title : String); external 'dmath'; { Sets the title for the Oy axis }
10217: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10218: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10219: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10220: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph }
10221: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10222: { Sets the maximum number of curves and re-initializes their parameters }
10223: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10224: { Sets the point parameters for curve # CurvIndex }
10225: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10226:                             Width : Float; Smooth : Boolean); external 'dmath';
10227: { Sets the line parameters for curve # CurvIndex }
10228: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10229: { Sets the legend for curve # CurvIndex }

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10230: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10231: { Sets the step for curve # CurvIndex }
10232: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10233: { Plots a curve }
10234: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10235:                                     Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10236: { Plots a curve with error bars }
10237: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10238:                       Npt : Integer; CurvIndex : Integer); external 'dmath';
10239: { Plots a function }
10240: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10241: { Writes the legends for the plotted curves }
10242: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10243: { Contour plot }
10244: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10245: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10246:
10247: //*****unit uPSI_SynPdf;
10248: function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10249: function _DateToPdfDate( ADate : TDateTime ) : TPDFDate
10250: function _PdfDateToDateTime( const AText : TPDFDate ) : TDateTime
10251: function PdfRect( Left, Top, Right, Bottom : Single ) : TPDFRect;
10252: function PdfRect1( const Box : TPDFBox ) : TPDFRect;
10253: function PdfBox( Left, Top, Width, Height : Single ) : TPDFBox
10254: //Function _GetCharCount( Text : PAnsiChar ) : integer
10255: //Procedure L2R( W : PWideChar; L : integer)
10256: function PdfCoord( MM : single ) : integer
10257: function CurrentPrinterPaperSize : TPDFPaperSize
10258: function CurrentPrinterRes : TPoint
10259: procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10260: procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10261: procedure GDICommentLink( MetaHandle:HDC; const aBookmarkName:RawUTF8; const aRect : TRect )
10262: const('Usp10','String').SetString( 'usp10.dll
10263: AddTypeS('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10264: 'fCharShape, fDigitSubstitute, fInhibitLigate, fDisplayZWG, fArabicNumContext, fGcpClusters )
10265: AddTypeS('TScriptState_set', 'set of TScriptState_enum
10266: //*****
10267:
10268: procedure SIRegister_PMrand(CL: TPSPascalCompiler); //ParkMiller
10269: begin
10270:   Procedure PMrandomize( I : word)
10271:   Function PMrandom : longint
10272:   Function Rrand : extended
10273:   Function Irand( N : word) : word
10274:   Function Brand( P : extended) : boolean
10275:   Function Nrand : extended
10276: end;
10277:
10278: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10279: begin
10280:   Function Endian( x : LongWord ) : LongWord
10281:   Function Endian64( x : Int64 ) : Int64
10282:   Function spRol( x : LongWord; y : Byte ) : LongWord
10283:   Function spRor( x : LongWord; y : Byte ) : LongWord
10284:   Function Ror64( x : Int64; y : Byte ) : Int64
10285: end;
10286:
10287: procedure SIRegister_MapReader(CL: TPSPascalCompiler);
10288: begin
10289:   Procedure ClearModules
10290:   Procedure ReadMapFile( FName : string)
10291:   Function AddressInfo( Address : dword ) : string
10292: end;
10293:
10294: procedure SIRegister_LibTar(CL: TPSPascalCompiler);
10295: begin
10296:   TTarPermission, '( tpReadByOwner, tpWriteByOwner, tpExecuteByOw'
10297:   + 'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWri'
10298:   + 'teByOther, tpExecuteByOther )
10299:   TTarPermissions, 'set of TTarPermission
10300:   TFileType, '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10301:   + 'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader;
10302:   TTarMode, '( tmSetUid, tmSetGid, tmSaveText )
10303:   TTarModes, 'set of TTarMode
10304:   TTarDirRec, 'record Name : STRING; Size : INT64; DateTime : TDa'
10305:   + 'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10306:   + 'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING;'
10307:   + 'ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10308:   + 'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10309:   SIRegister_TTarArchive(CL);
10310:   SIRegister_TTarWriter(CL);
10311:   Function PermissionString( Permissions : TTarPermissions ) : STRING
10312:   Function ConvertFilename( Filename : STRING ) : STRING
10313:   Function FileTimeGMT( FileName : STRING ) : TDateTime;
10314:   Function FileTimeGMT1( SearchRec : TSearchRec ) : TDateTime;
10315:   Procedure ClearDirRec( var DirRec : TTarDirRec )
10316: end;
10317:
10318:

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10319: //*****unit uPSI_TlHelp32;
10320: procedure SIRegister_TlHelp32(CL: TPSPascalCompiler);
10321: begin
10322:   Const('MAX_MODULE_NAME32','LongInt').SetInt( 255);
10323:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD) : THandle
10324:   Const('TH32CS_SNAPHEAPLIST','LongWord').SetUInt( $00000001);
10325:   Const('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002);
10326:   Const('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004);
10327:   Const('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008);
10328:   Const('TH32CS_INHERIT','LongWord').SetUInt( $80000000);
10329:   tagHEAPLIST32', record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10330:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10331:   AddTypeS('THeapList32', 'tagHEAPLIST32
10332:   Const('HF32_DEFAULT','LongInt').SetInt( 1);
10333:   Const('HF32_SHARED','LongInt').SetInt( 2);
10334:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10335:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10336:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAd'
10337:   + 'dress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10338:   + 'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10339:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10340:   AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10341:   Const('LF32_FIXED','LongWord').SetUInt( $00000001);
10342:   Const('LF32_FREE','LongWord').SetUInt( $00000002);
10343:   Const('LF32_MOVEABLE','LongWord').SetUInt( $00000004);
10344:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD) : BOOL
10345:   Function Heap32Next( var lphe : THeapEntry32) : BOOL
10346:   DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10347:   AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10348:   + '2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10349:   + 'aPri : Longint; dwFlags : DWORD; end
10350:   AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10351:   AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10352:   Function Thread32First( hSnapshot : THandle; var lpthe : TThreadEntry32) : BOOL
10353:   Function Thread32Next( hSnapshot : THandle; var lpthe : TThreadEntry32) : BOOL
10354: end;
10355: Const('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042);
10356: Const('EW_REBOOTSYSTEM','LongWord').SetUInt( $0043);
10357: Const('EW_EXITANDEXECAPP','LongWord').SetUInt( $0044);
10358: Const('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD ( $80000000 ));
10359: Const('EWX_LOGOFF','LongInt').SetInt( 0);
10360: Const('EWX_SHUTDOWN','LongInt').SetInt( 1);
10361: Const('EWX_REBOOT','LongInt').SetInt( 2);
10362: Const('EWX_FORCE','LongInt').SetInt( 4);
10363: Const('EWX_POWEROFF','LongInt').SetInt( 8);
10364: Const('EWX_FORCEIFHUNG','LongWord').SetUInt( $10);
10365: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt) : Shortint
10366: Function GET_DEVICE_LPARAM( const lParam : LongInt) : Word
10367: Function GET_MOUSEORKEY_LPARAM( const lParam : LongInt) : Word
10368: Function GET_FLAGS_LPARAM( const lParam : LongInt) : Word
10369: Function GET_KEYSTATE_LPARAM( const lParam : LongInt) : Word
10370: Function GetWindowWord( hWnd : HWND; nIndex : Integer) : Word
10371: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word) : Word
10372: Function GetWindowLong( hWnd : HWND; nIndex : Integer) : Longint
10373: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : Longint
10374: Function GetClassWord( hWnd : HWND; nIndex : Integer) : Word
10375: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word) : Word
10376: Function GetClassLong( hWnd : HWND; nIndex : Integer) : DWORD
10377: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : DWORD
10378: Function GetDesktopWindow : HWND
10379: Function GetParent( hWnd : HWND) : HWND
10380: Function SetParent( hWndChild, hWndNewParent : HWND) : HWND
10381: Function GetTopWindow( hWnd : HWND) : HWND
10382: Function GetNextWindow( hWnd : HWND; uCmd : UINT) : HWND
10383: Function GetWindow( hWnd : HWND; uCmd : UINT) : HWND
10384: //Delphi DFM
10385: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10386: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string) : integer
10387: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10388: function GetHighlightersFilter(AHighlighters: TStringList): string;
10389: function GetHighlighterFromFileExt(AHighlighters: TStringList;Extension: string):TSynCustomHighlighter;
10390: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL) : BOOL
10391: Function OpenIcon( hWnd : HWND) : BOOL
10392: Function CloseWindow( hWnd : HWND) : BOOL
10393: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL) : BOOL
10394: Function SetWindowPos(hWnd: HWND;hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UINT) : BOOL
10395: Function IsWindowVisible( hWnd : HWND) : BOOL
10396: Function IsIconic( hWnd : HWND) : BOOL
10397: Function AnyPopup : BOOL
10398: Function BringWindowToTop( hWnd : HWND) : BOOL
10399: Function IsZoomed( hWnd : HWND) : BOOL
10400: Function IsWindow( hWnd : HWND) : BOOL
10401: Function IsMenu( hMenu : HMENU) : BOOL
10402: Function IsChild( hWndParent, hWnd : HWND) : BOOL
10403: Function DestroyWindow( hWnd : HWND) : BOOL
10404: Function ShowWindow( hWnd : HWND; nCmdShow : Integer) : BOOL
10405: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD) : BOOL
10406: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer) : BOOL
10407: Function FlashWindow( hWnd : HWND; bInvert : BOOL) : BOOL

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10408: Function IsWindowUnicode( hWnd : HWND ) : BOOL
10409: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL
10410: Function IsWindowEnabled( hWnd : HWND ) : BOOL
10411:
10412: procedure SIRegister_IDECmdLine(CL: TPSPascalCompiler);
10413: begin
10414:   const ('ShowSetupDialogOptLong','String').SetString( '--setup
10415:   PrimaryConfPathOptLong','String').SetString( '--primary-config-path=
10416:   PrimaryConfPathOptShort','String').SetString( '--pcp=
10417:   SecondaryConfPathOptLong','String').SetString( '--secondary-config-path=
10418:   SecondaryConfPathOptShort','String').SetString( '--scp=
10419:   NoSplashScreenOptLong','String').SetString( '--no-splash-screen
10420:   NoSplashScreenOptShort','String').SetString( '--nsc
10421:   StartedByStartLazarusOpt','String').SetString( '--started-by-startlazarus
10422:   SkipLastProjectOpt','String').SetString( '--skip-last-project
10423:   DebugLogOpt','String').SetString( '--debug-log=
10424:   DebugLogOptEnable','String').SetString( '--debug-enable=
10425:   LanguageOpt','String').SetString( '--language=
10426:   LazarusDirOpt','String').SetString( '--lazarusdir=
10427:   Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10428:   Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean) : string
10429:   Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings ) : string
10430:   Function IsHelpRequested : Boolean
10431:   Function IsVersionRequested : boolean
10432:   Function GetLanguageSpecified : string
10433:   Function ParamIsOption( ParamIndex : integer; const Option : string) : boolean
10434:   Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10435:   Procedure ParseNoGuiCmdLineParams
10436:   Function ExtractCmdLineFileNames : TStrings
10437: end;
10438:
10439:
10440: procedure SIRegister_LazFileUtils(CL: TPSPascalCompiler);
10441: begin
10442:   Function CompareFileNames( const Filename1, Filename2 : string) : integer
10443:   Function CompareFileNamesIgnoreCase( const Filename1, Filename2 : string) : integer
10444:   Function CompareFileExt( const Filename, Ext : string; CaseSensitive : boolean) : integer;
10445:   Function CompareFileExt1( const Filename, Ext : string) : integer;
10446:   Function CompareFileNamesStarts( const Filename1, Filename2 : string) : integer
10447:   Function CompareFileNames(Filename1:PChar;Len1:integer; Filename2:PChar;Len2:integer):integer
10448:   Function CompareFileNamesP( Filename1, Filename2 : PChar; IgnoreCase : boolean) : integer
10449:   Function DirPathExists( DirectoryName : string) : boolean
10450:   Function DirectoryIsWritable( const DirectoryName : string) : boolean
10451:   Function ExtractFileNameOnly( const AFilename : string) : string
10452:   Function FilenameIsAbsolute( const TheFilename : string) : boolean
10453:   Function FilenameIsWinAbsolute( const TheFilename : string) : boolean
10454:   Function FilenameIsUnixAbsolute( const TheFilename : string) : boolean
10455:   Function ForceDirectory( DirectoryName : string) : boolean
10456:   Procedure CheckIfFileIsExecutable( const AFilename : string)
10457:   Procedure CheckIfFileIsSymlink( const AFilename : string)
10458:   Function FileIsText( const AFilename : string) : boolean
10459:   Function FileIsText2( const AFilename : string; out FileReadable : boolean) : boolean
10460:   Function FilenameIsTrimmed( const TheFilename : string) : boolean
10461:   Function FilenameIsTrimmed2( StartPos : PChar; NameLen : integer) : boolean
10462:   Function TrimFilename( const AFilename : string) : string
10463:   Function ResolveDots( const AFilename : string) : string
10464:   Procedure ForcePathDelims( var FileName : string)
10465:   Function GetForcedPathDelims( const FileName : string) : String
10466:   Function CleanAndExpandFilename( const Filename : string) : string
10467:   Function CleanAndExpandDirectory( const Filename : string) : string
10468:   Function TrimAndExpandFilename( const Filename : string; const BaseDir : string) : string
10469:   Function TrimAndExpandDirectory( const Filename : string; const BaseDir : string) : string
10470:   Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String) : Boolean
10471:   Function CreateRelativePath( const Filename,BaseDirectory:String; UsePointDirectory:boolean;
AlwaysRequireSharedBaseFolder : Boolean) : string
10472:   Function FileIsInPath( const Filename, Path : string) : boolean
10473:   Function AppendPathDelim( const Path : string) : string
10474:   Function ChompPathDelim( const Path : string) : string
10475:   Function CreateAbsolutePathSearchPath( const SearchPath, BaseDirectory : string) : string
10476:   Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string) : string
10477:   Function MinimizeSearchPath( const SearchPath : string) : string
10478:   Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
(*Function FileExistsUTF8( const Filename : string) : boolean
10480: Function FileAgeUTF8( const FileName : string) : Longint
10481: Function DirectoryExistsUTF8( const Directory : string) : Boolean
10482: Function ExpandFileNameUTF8( const FileName : string; BaseDir : string) : string
10483: Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10484: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
10485: Procedure FindCloseUTF8( var F : TSearchRec)
10486: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
10487: Function FileGetAttrUTF8( const FileName : String) : Longint
10488: Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
10489: Function DeleteFileUTF8( const FileName : String) : Boolean
10490: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
10491: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
10492: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
10493: Function GetCurrentDirUTF8 : String
10494: Function SetCurrentDirUTF8( const NewDir : String) : Boolean

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10495: Function CreateDirUTF8( const NewDir : String) : Boolean
10496: Function RemoveDirUTF8( const Dir : String) : Boolean
10497: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
10498: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
10499: Function FileCreateUTF8( const FileName : string) : THandle;
10500: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
10501: Function FileCreateUtf82( const FileName : String; ShareMode : Integer; Rights : Cardinal) : THandle;
10502: Function FileSizeUtf8( const Filename : string) : int64
10503: Function GetFileDescription( const AFilename : string) : string
10504: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
10505: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean) : string
10506: Function GetTempFileNameUTF8( const Dir, Prefix : String) : String*)
10507: Function IsUNCPath( const Path : String) : Boolean
10508: Function ExtractUNCVolume( const Path : String) : String
10509: Function ExtractFileRoot( FileName : String) : String
10510: Function GetDarwinSystemFilename( Filename : string) : string
10511: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean)
10512: Function StrToCmdLineParam( const Param : string) : string
10513: Function MergeCmdLineParams( ParamList : TStrings) : string
10514: Procedure InvalidateFileStateCache( const Filename : string)
10515: Function FindAllFiles( const SearchPath: String; SearchMask: String; SearchSubDirs: Boolean): TStringList);
10516: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
10517: Function ReadFileToString( const Filename : string) : string
10518: type
10519:   TCopyFileFlag = ( cffOverwriteFile,
10520:     cffCreateDestDirectory, cffPreserveTime );
10521:   TCopyFileFlags = set of TCopyFileFlag;*)
10522:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10523:   TCopyFileFlags', 'set of TCopyFileFlag
10524:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
10525: end;
10526:
10527: procedure SIRegister_lazMasks(CL: TPSPascalCompiler);
10528: begin
10529:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10530:   SIRegister_TMask(CL);
10531:   SIRegister_TParseStringList(CL);
10532:   SIRegister_TMaskList(CL);
10533:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Boolean
10534:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Bool;
10535:   Function MatchesMaskList( const FileName, Mask: String; Separator: Char; const CaseSensitive: Boolean): Bool;
10536:   Function MatchesWindowsMaskList( const FileName, Mask: String; Separat: Char; const CaseSensitive: Bool): Bool;
10537: end;
10538:
10539: procedure SIRegister_JvShellHook(CL: TPSPascalCompiler);
10540: begin
10541:   //PShellHookInfo', '^TShellHookInfo // will not work
10542:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10543:   SHELLHOOKINFO', 'TShellHookInfo
10544:   LPSHELLHOOKINFO', 'PShellHookInfo
10545:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10546:   SIRegister_TJvShellHook(CL);
10547:   Function InitJvShellHooks : Boolean
10548:   Procedure UnInitJvShellHooks
10549: end;
10550:
10551: procedure SIRegister_JvExControls(CL: TPSPascalCompiler);
10552: begin
10553:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10554:   +', dcHasSetSel, dcWantTab, dcNative )
10555:   TDlgCodes', 'set of TDlgCode
10556:   'dcWantMessage', '').SetString( dcWantAllKeys);
10557:   SIRegister_IJvExControl(CL);
10558:   SIRegister_IJvDenySubClassing(CL);
10559:   SIRegister_TStructPtrMessage(CL);
10560:   Procedure SetDotNetFrameColors( FocusedColor, UnfocusedColor : TColor)
10561:   Procedure DrawDotNetControl( Control : TWinControl; AColor : TColor; InControl : Boolean);
10562:   Procedure DrawDotNetControl( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10563:   Procedure HandleDotNetHighlighting( Control: TWinControl; const Msg: TMessage; MouseOver: Boolean; Color: TColor);
10564:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint) : TMessage;
10565:   Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl) : TMessage;
10566:   Function SmallPointToLong( const Pt : TSmallPoint) : Longint
10567:   Function ShiftStateToKeyData( Shift : TShiftState) : Longint
10568:   Function GetFocusedControl( AControl : TControl) : TWinControl
10569:   Function DlgcToDlgCodes( Value : Longint) : TDlgCodes
10570:   Function DlgCodesToDlgc( Value : TDlgCodes) : Longint
10571:   Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10572:   Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage) : Boolean
10573:   SIRegister_TJvExControl(CL);
10574:   SIRegister_TJvExWinControl(CL);
10575:   SIRegister_TJvExCustomControl(CL);
10576:   SIRegister_TJvExGraphicControl(CL);
10577:   SIRegister_TJvExHintWindow(CL);
10578:   SIRegister_TJvExPubGraphicControl(CL);
10579: end;
10580:
10581: (*-----*)
10582: procedure SIRegister_EncdDecd(CL: TPSPascalCompiler);
10583: begin

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10584: Procedure EncodeStream( Input, Output : TStream)
10585: Procedure DecodeStream( Input, Output : TStream)
10586: Function EncodeString1( const Input : string) : string
10587: Function DecodeString1( const Input : string) : string
10588: end;
10589:
10590: (*-----*)
10591: procedure SIRegister_SockAppReg(CL: TPSPascalCompiler);
10592: begin
10593:   SIRegister_TWebAppRegInfo(CL);
10594:   SIRegister_TWebAppRegList(CL);
10595:   Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10596:   Procedure RegisterWebApp( const AFileName, AProgID : string)
10597:   Procedure UnregisterWebApp( const AProgID : string)
10598:   Function FindRegisteredWebApp( const AProgID : string) : string
10599:   Function CreateRegistry( InitializeNewFile : Boolean) : TCustomIniFile
10600:   'sUDPPort', 'String').SetString( 'UDPPort
10601: end;
10602:
10603: procedure SIRegister_PJEnvVars(CL: TPSPascalCompiler);
10604: begin
10605:   // TStringDynArray, 'array of string
10606:   Function GetEnvVarValue( const VarName : string) : string
10607:   Function SetEnvVarValue( const VarName, VarValue : string) : Integer
10608:   Function DeleteEnvVar( const VarName : string) : Integer
10609:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int):Int;
10610:   Function ExpandEnvVars( const Str : string) : string
10611:   Function GetAllEnvVars( const Vars : TStrings) : Integer
10612:   Procedure GetAllEnvVarNames( const Names : TStrings);
10613:   Function GetAllEnvVarNames1 : TStringDynArray;
10614:   Function EnvBlockSize : Integer
10615:   TPJEnvVarsEnum, 'Procedure ( const VarName : string; Data : TObject)
10616:   SIRegister_TPJEnvVarsEnumerator(CL);
10617:   SIRegister_TPJEnvVars(CL);
10618:   FindClass('TOBJECT'),'EPJEnvVars
10619:   FindClass('TOBJECT'),'EPJEnvVars
10620:   //Procedure Register
10621: end;
10622:
10623: (*-----*)
10624: procedure SIRegister_PJConsoleApp(CL: TPSPascalCompiler);
10625: begin
10626:   'cOneSecInMS','LongInt').SetInt( 1000);
10627:   //'cDefTimeSlice','LongInt').SetInt( 50);
10628:   //'cDefMaxExecTime','').SetString( cOneMinInMS);
10629:   'cAppErrorMask','LongInt').SetInt( 1 shl 29);
10630:   Function IsApplicationError( const ErrCode : LongWord) : Boolean
10631:   TPJConsoleAppPriority, '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10632:   TPJConsoleColors, 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10633:   Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor):TPJConsoleColors;
10634:   Function MakeConsoleColors1( const AForeground, ABackground : TColor) : TPJConsoleColors;
10635:   Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor) : TPJConsoleColors;
10636:   Function MakeSize( const ACX, ACY : LongInt) : TSize
10637:   SIRegister_TPJCustomConsoleApp(CL);
10638:   SIRegister_TPJConsoleApp(CL);
10639: end;
10640:
10641: procedure SIRegister_ip_misc(CL: TPSPascalCompiler);
10642: begin
10643:   INVALID_IP_ADDRESS,'LongWord').SetUInt( $ffffff);
10644:   t_encoding, '( uencode, base64, mime )
10645:   Function internet_date( date : TDateTime) : string
10646:   Function lookup_hostname( const hostname : string) : longint
10647:   Function my_hostname : string
10648:   Function my_ip_address : longint
10649:   Function ip2string( ip_address : longint) : string
10650:   Function resolve_hostname( ip : longint) : string
10651:   Function address_from( const s : string; count : integer) : string
10652:   Function encode_base64( data : TStream) : TStringList
10653:   Function decode_base64( source : TStringList) : TMemoryStream
10654:   Function posn( const s, t : string; count : integer) : integer
10655:   Function poscn( c : char; const s : string; n : integer) : integer
10656:   Function filename_of( const s : string) : string
10657:   //Function trim( const s : string) : string
10658:   //Procedure setlength( var s : string; l : byte)
10659:   Function TimeZoneBias : longint
10660:   Function eight2seven_quoteprint( const s : string) : string
10661:   Function eight2seven_german( const s : string) : string
10662:   Function seven2eight_quoteprint( const s : string) : string end;
10663:   type in_addr, 'record s_bytes : array[1..4] of byte; end;
10664:   Function socketerror : cint
10665:   Function fpsocket( domain : cint; xtype : cint; protocol : cint) : cint
10666:   Function fprecv( s : cint; buf : __pointer; len : size_t; flags : cint) : ssize_t
10667:   Function fpsend( s : cint; msg : __pointer; len : size_t; flags : cint) : ssize_t
10668:   //Function fpbind( s : cint; addrx : psockaddr; addrlen : tsocklen) : cint
10669:   Function fplisten( s : cint; backlog : cint) : cint
10670:   //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint) : cint
10671:   //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen) : cint

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10672: //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen) : cint
10673: Function NetAddrToStr( Entry : in_addr) : String
10674: Function HostAddrToStr( Entry : in_addr) : String
10675: Function StrToHostAddr( IP : String) : in_addr
10676: Function StrToNetAddr( IP : String) : in_addr
10677: SOL_SOCKET', 'LongWord').SetUInt( $ffff);
10678: cint8', 'shortint
10679: cuint8', 'byte
10680: cchar', 'cint8
10681: cschar', 'cint8
10682: cuchar', 'cuint8
10683: cint16', 'smallint
10684: cuint16', 'word
10685: cshort', 'cint16
10686: csshort', 'cint16
10687: cushort', 'cuint16
10688: cint32', 'longint
10689: cuint32', 'longword
10690: cint', 'cint32
10691: csint', 'cint32
10692: cuint', 'cuint32
10693: csigned', 'cint
10694: cunsigned', 'cuint
10695: cint64', 'int64
10696: clonglong', 'cint64
10697: cslonglong', 'cint64
10698: cbool', 'longbool
10699: cfloat', 'single
10700: cdouble', 'double
10701: clongdouble', 'extended
10702:
10703: procedure SIRegister_uLkJJSON(CL: TPSPascalCompiler);
10704: begin
10705:   TlkJSONtypes', '(jsBase, jsNumber, jsString, jsBoolean, jsNull, jsList, jsObject )
10706:   SIRegister_TlkJSONdotnetclass(CL);
10707:   SIRegister_TlkJSONbase(CL);
10708:   SIRegister_TlkJSONnumber(CL);
10709:   SIRegister_TlkJSONstring(CL);
10710:   SIRegister_TlkJSONboolean(CL);
10711:   SIRegister_TlkJSONnull(CL);
10712:   TlkJSONFuncEnum', 'Procedure ( ElName : string; Elem : TlkJSONba'
10713:   +se; data : TObjct; var Continue : Boolean)
10714:   SIRegister_TlkJSONcustomlist(CL);
10715:   SIRegister_TlkJSONlist(CL);
10716:   SIRegister_TlkJSONobjectmethod(CL);
10717:   TlkHashItem', 'record hash : cardinal; index : Integer; end
10718:   TlkHashFunction', 'Function ( const ws : WideString) : cardinal
10719:   SIRegister_TlkHashTable(CL);
10720:   SIRegister_TlkBalTree(CL);
10721:   SIRegister_TlkJSONobject(CL);
10722:   SIRegister_TlkJSON(CL);
10723:   SIRegister_TlkJSONstreamed(CL);
10724:   Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer) : string
10725: end;
10726:
10727: procedure SIRegister_ZSysUtils(CL: TPSPascalCompiler);
10728: begin
10729:   TZListSortCompare', 'Function (Item1, Item2 : TObjct) : Integer
10730:   SIRegister_TZSortedList(CL);
10731:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10732:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10733:   //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10734:   //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10735:   Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10736:   Function StartsWith1( const Str, SubStr : RawByteString) : Boolean;
10737:   Function EndsWith( const Str, SubStr : WideString) : Boolean;
10738:   Function EndsWith1( const Str, SubStr : RawByteString) : Boolean;
10739:   Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10740:   Function SQLStrToFloatDef1( Str : String; Def : Extended) : Extended;
10741:   Function SQLStrToFloat( const Str : AnsiString) : Extended
10742:   //Function BufferToStr( Buffer : PWideChar; Length : LongInt) : string;
10743:   //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt) : string;
10744:   Function BufferToBytes( Buffer : TObjct; Length : LongInt) : TByteDynArray
10745:   Function StrToBoolEx( Str : string) : Boolean
10746:   Function BoolToStrEx( Bool : Boolean) : String
10747:   Function IsIpAddr( const Str : string) : Boolean
10748:   Function zSplitString( const Str, Delimiters : string) : TStrings
10749:   Procedure PutSplitString( List : TStrings; const Str, Delimiters : string)
10750:   Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string)
10751:   Function ComposeString( List : TStrings; const Delimiter : string) : string
10752:   Function FloatToSQLStr( Value : Extended) : string
10753:   Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string)
10754:   Function SplitStringEx( const Str, Delimiter : string) : TStrings
10755:   Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string)
10756:   Function zBytesToStr( const Value : TByteDynArray) : AnsiString
10757:   Function zStrToBytes( const Value : AnsiString) : TByteDynArray;
10758:   Function StrToBytes1( const Value : UTF8String) : TByteDynArray;
10759:   Function StrToBytes2( const Value : RawByteString) : TByteDynArray;
10760:   Function StrToBytes3( const Value : WideString) : TByteDynArray;

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10761: Function StrToBytes4( const Value : UnicodeString) : TByteDynArray;
10762: Function BytesToVar( const Value : TByteDynArray) : Variant
10763: Function VarToBytes( const Value : Variant) : TByteDynArray
10764: Function AnsiSQLDateToDateTime( const Value : string) : TDateTime
10765: Function TimestampStrToDateTime( const Value : string) : TDateTime
10766: Function DateTimeToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean) : string
10767: Function EncodeCString( const Value : string) : string
10768: Function DecodeCString( const Value : string) : string
10769: Function ZReplaceChar( const Source, Target : Char; const Str : string) : string
10770: Function MemPas( Buffer : PChar; Length : LongInt) : string
10771: Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10772: Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10773: Function FormatSQLVersion( const SQLVersion : Integer) : String
10774: Function ZStrToFloat( Value : AnsiChar) : Extended;
10775: Function ZStrToFloat1( Value : AnsiString) : Extended;
10776: Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString);
10777: Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString);
10778: Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String);
10779: Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String);
10780: Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString);
10781: Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString);
10782: Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString);
10783: end;
10784:
10785: unit uPSI_ZEncoding;
10786: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word) : RawByteString
10787: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word) : String
10788: Function ZRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10789: Function ZUnicodeToRaw( const US : WideString; CP : Word) : RawByteString
10790: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10791: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10792: Function ZConvertAnsiToUTF8( const Src : AnsiString) : UTF8String
10793: Function ZConvertUTF8ToAnsi( const Src : UTF8String) : AnsiString
10794: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10795: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10796: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10797: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10798: Function ZConvertStringToRawWithAutoEncode(const Src:String;const StringCP,RawCP:Word):RawByteString;
10799: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word) : String
10800: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word) : UTF8String
10801: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP: Word): UTF8String
10802: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10803: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP: Word): AnsiString
10804: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10805: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word) : String
10806: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word) : String
10807: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word) : WideString
10808: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word) : WideString
10809: Function ZConvertStringToUnicodeWithAutoEncode( const Src : String; const StringCP:Word):WideString
10810: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10811: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10812: Function ZMoveAnsiToUTF8( const Src : AnsiString) : UTF8String
10813: Function ZMoveUTF8ToAnsi( const Src : UTF8String) : AnsiString
10814: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10815: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10816: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10817: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10818: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10819: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10820: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word) : String
10821: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word) : UTF8String
10822: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10823: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word) : WideString
10824: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word) : RawByteString
10825: Function ZDefaultSystemCodePage : Word
10826: Function ZCompatibleCodePages( const CP1, CP2 : Word) : Boolean
10827:
10828:
10829: procedure SIRegister_BoldComUtils(CL: TPSPascalCompiler);
10830: begin
10831:   'RPC_C_AUTHN_LEVEL_DEFAULT', 'LongInt').SetInt( 0);
10832:   ('RPC_C_AUTHN_LEVEL_NONE', 'LongInt').SetInt( 1);
10833:   ('RPC_C_AUTHN_LEVEL_CONNECT', 'LongInt').SetInt( 2);
10834:   ('RPC_C_AUTHN_LEVEL_CALL', 'LongInt').SetInt( 3);
10835:   ('RPC_C_AUTHN_LEVEL_PKT', 'LongInt').SetInt( 4);
10836:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY', 'LongInt').SetInt( 5);
10837:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY', 'LongInt').SetInt( 6);
10838:   (('aDefault', '1').SetString( RPC_C_AUTHN_LEVEL_DEFAULT);
10839:   ('aNone', '2').SetString( RPC_C_AUTHN_LEVEL_NONE);
10840:   ('aConnect', '3').SetString( RPC_C_AUTHN_LEVEL_CONNECT);
10841:   ('aCall', '4').SetString( RPC_C_AUTHN_LEVEL_CALL);
10842:   ('aPacket', '5').SetString( RPC_C_AUTHN_LEVEL_PKT);
10843:   ('aPacketIntegrity', '6').SetString( RPC_C_AUTHN_LEVEL_PKT_INTEGRITY);
10844:   ('aPacketPrivacy', '7').SetString( RPC_C_AUTHN_LEVEL_PKT_PRIVACY);}
10845:   ('RPC_C_IMP_LEVEL_DEFAULT', 'LongInt').SetInt( 0);
10846:   ('RPC_C_IMP_LEVEL_ANONYMOUS', 'LongInt').SetInt( 1);
10847:   ('RPC_C_IMP_LEVEL_IDENTIFY', 'LongInt').SetInt( 2);

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10848: ('RPC_C_IMP_LEVEL_IMPERSONATE','LongInt').SetInt( 3);
10849: ('RPC_C_IMP_LEVEL_DELEGATE','LongInt').SetInt( 4);
10850: (('ilDefault','0').SetString( RPC_C_IMP_LEVEL_DEFAULT);
10851: ('ilAnonymous','1').SetString( RPC_C_IMP_LEVEL_ANONYMOUS);
10852: ('ilIdentiry','2').SetString( RPC_C_IMP_LEVEL_IDENTIFY);
10853: ('ilImpersonate','3').SetString( RPC_C_IMP_LEVEL_IMPERSONATE);
10854: ('ilDelegate','4').SetString( RPC_C_IMP_LEVEL_DELEGATE);}
10855: ('EOAC_NONE','LongWord').SetUInt( $0);
10856: ('EOAC_DEFAULT','LongWord').SetUInt( $800);
10857: ('EOAC_MUTUAL_AUTH','LongWord').SetUInt( $1);
10858: ('EOAC_STATIC_CLOACKING','LongWord').SetUInt( $20);
10859: ('EOAC_DYNAMIC_CLOACKING','LongWord').SetUInt( $40);
10860: ('EOAC_ANY_AUTHORITY','LongWord').SetUInt( $80);
10861: ('RPC_C_AUTHN_WINNT','LongInt').SetInt( 10);
10862: ('RPC_C_AUTHN_NONE','LongInt').SetInt( 0);
10863: ('RPC_C_AUTHN_NAME','LongInt').SetInt( 1);
10864: ('RPC_C_AUTHN_DCE','LongInt').SetInt( 2);
10865: FindClass('TOBJECT'),'EBoldCom
10866: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer) : Boolean
10867: Function BoldMemoryToVariant( const Buffer, BufSize : Integer) : OleVariant
10868: Function BoldStreamToVariant( Stream : TStream) : OleVariant
10869: Function BoldStringsToVariant( Strings : TStrings) : OleVariant
10870: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer) : Integer
10871: Function BoldVariantToStream( V : OleVariant; Stream : TStream) : Integer
10872: Function BoldVariantArrayOfArrayOfStringsToStrings( V : OleVariant; Strings : TStrings) : Integer
10873: Function BoldVariantIsNamedValues( V : OleVariant) : Boolean
10874: Function BoldCreateNamedValues(const Names:array of string;const Values:array of OleVariant):OleVariant;
10875: Function BoldGetNamedValue( Data : OleVariant; const Name : string) : OleVariant
10876: Procedure BoldSetNamedValue( Data : OleVariant; const Name : string; Value : OleVariant)
10877: Function BoldCreateGUID : TGUID
10878: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HRESULT) : Boolean
10879: Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IID:TGUID;out Obj:variant;out
Res:HRESULT):Bool;
10880: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint)
10881: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown);
10882: end;
10883:
10884: (*-----*)
10885: procedure SIRegister_BoldIsoDateTime(CL: TPSPascalCompiler);
10886: begin
10887:   Function ParseISODate( s : string) : TDateTime
10888:   Function ParseISODateTime( s : string) : TDateTime
10889:   Function ParseISOTime( str : string) : TDateTime
10890: end;
10891:
10892: (*-----*)
10893: procedure SIRegister_BoldGUIDUtils(CL: TPSPascalCompiler);
10894: begin
10895:   Function BoldCreateGUIDAsString( StripBrackets : Boolean) : string
10896:   Function BoldCreateGUIDWithBracketsAsString : string
10897: end;
10898:
10899: procedure SIRegister_BoldFileHandler(CL: TPSPascalCompiler);
10900: begin
10901:   FindClass('TOBJECT'),'TBoldFileHandler
10902:   FindClass('TOBJECT'),'TBoldDiskFileHandler
10903:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
10904:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList)
10905:   SIRegister_TBoldFileHandler(CL);
10906:   SIRegister_TBoldDiskFileHandler(CL);
10907:   Procedure BoldCloseAllFilehandlers
10908:   Procedure BoldRemoveUnchangedFilesFromEditor
10909:   Function BoldFileHandlerList : TBoldObjectArray
10910:   Function BoldFileHandlerForFile(path,FileName:String; ModuleType:TBoldModuleType;ShowInEditor:Bool;
OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
10911: end;
10912:
10913: procedure SIRegister_BoldWinINet(CL: TPSPascalCompiler);
10914: begin
10915:   PCharArr, 'array of PChar
10916:   Function BoldInternetOpen(Agent:String;
AccessType:integer;Proxy:String;ProxyByPass:String;Flags:integer):ptr;
10917:   Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags,Context:cardinal):Pointer
10918:   Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumberOfBytesToRead:Card;var
NumberOfBytesRead:Card):LongBool;
10919:   Function BoldInternetCloseHandle( HINet : Pointer) : LongBool
10920:   Function BoldHttpRequestInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
Cardinal; Reserved : Cardinal) : LongBool
10921:   Function BoldInternetQueryDataAvailable( hFile : Pointer; var NumberOfBytesAvailable : Cardinal; flags :
Cardinal; Context : Cardinal) : LongBool
10922:   Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
: PCharArr; Flags, Context : Cardinal) : Pointer
10923:   Function BoldHttpSendRequest(hRequest:Pointer;Headers:string; Optional:Pointer;OptionalLength:Cardinal):
LongBool
10924:   Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD; var lppvData:Pointer):
DWORD
10925:   Function BoldInternetAttemptConnect( dwReserved : DWORD) : DWORD
10926:   Function BoldInternetConnect( hInet : HINTERNET; ServerName : string; nServerPort : INTERNET_PORT;
Username : string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD) : HINTERNET

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10927: Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD; var lpUrlComponents:TURLComponents):BOOL;
10928: end;
10929:
10930: procedure SIRegister_BoldQueryUserDlg(CL: TPSPascalCompiler);
10931: begin
10932:   TBoldQueryResult', '( qrYesAll, qrYes, qrNo, qrNoAll )
10933:   SIRegister_TfrmBoldQueryUser(CL);
10934:   Function QueryUser( const Title, Query : string) : TBoldQueryResult
10935: end;
10936:
10937: (*-----*)
10938: procedure SIRegister_BoldQueue(CL: TPSPascalCompiler);
10939: begin
10940:   (('befIsInDisplayList', '').SetString( BoldElementFlag0);
10941:   (('befStronglyDependedOfPrioritized', '').SetString( BoldElementFlag1);
10942:   (('befFollowerSelected', '').SetString( BoldElementFlag2);
10943:   FindClass('TObject'), 'TBoldQueue
10944:   FindClass('TObject'), 'TBoldQueueable
10945:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
10946:   SIRegister_TBoldQueueable(CL);
10947:   SIRegister_TBoldQueue(CL);
10948:   Function BoldQueueFinalized : Boolean
10949:   Function BoldInstalledQueue : TBoldQueue
10950: end;
10951:
10952: procedure SIRegister_Barcode(CL: TPSPascalCompiler);
10953: begin
10954:   const mmPerInch, 'Extended').setExtended( 25.4);
10955:   TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial, '
10956:   + ' bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
10957:   + 'Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
10958:   + 'bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
10959:   + 'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
10960:   TBarLineType', '( white, black, black_half )
10961:   TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )
10962:   TShowTextPosition', '( stpTopLeft, stpTopRight, stpTopCenter, st'
10963:   + 'pBottomLeft, stpBottomRight, stpBottomCenter )
10964:   TChecksumMethod', '( csmNone, csmModulo10 )
10965:   SIRegister_TASBarcode(CL);
10966:   Function CheckSumModulo10( const data : string) : string
10967:   Function ConvertMmToPixelsX( const Value : Double) : Integer
10968:   Function ConvertMmToPixelsY( const Value : Double) : Integer
10969:   Function ConvertInchToPixelsX( const Value : Double) : Integer
10970:   Function ConvertInchToPixelsY( const Value : Double) : Integer
10971: end;
10972:
10973: procedure SIRegister_Geometry(CL: TPSPascalCompiler); //OpenGL
10974: begin
10975:   THomogeneousByteVector', 'array[0..3] of Byte
10976:   THomogeneousWordVector', 'array[0..3] of Word
10977:   THomogeneousIntVector', 'array[0..3] of Integer
10978:   THomogeneousFltVector', 'array[0..3] of single
10979:   THomogeneousDblVector', 'array[0..3] of double
10980:   THomogeneousExtVector', 'array[0..3] of extended
10981:   TAffineByteVector', 'array[0..2] of Byte
10982:   TAffineWordVector', 'array[0..2] of Word
10983:   TAffineIntVector', 'array[0..2] of Integer
10984:   TAffineFltVector', 'array[0..2] of single
10985:   TAffineDblVector', 'array[0..2] of double
10986:   TAffineExtVector', 'array[0..2] of extended
10987:   THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
10988:   THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
10989:   THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
10990:   THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
10991:   THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
10992:   THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
10993:   TAffineByteMatrix', 'array[0..2] of TAffineByteVector
10994:   TAffineWordMatrix', 'array[0..2] of TAffineWordVector
10995:   TAffineIntMatrix', 'array[0..2] of TAffineIntVector
10996:   TAffineFltMatrix', 'array[0..3] of TAffineFltVector
10997:   TAffineDblMatrix', 'array[0..3] of TAffineDblVector
10998:   TAffineExtMatrix', 'array[0..3] of TAffineExtVector
10999:   TMatrix4b', 'THomogeneousByteMatrix
11000:   TMatrix4w', 'THomogeneousWordMatrix
11001:   TMatrix4i', 'THomogeneousIntMatrix
11002:   TMatrix4f', 'THomogeneousFltMatrix
11003:   TMatrix4d', 'THomogeneousDblMatrix
11004:   TMatrix4e', 'THomogeneousExtMatrix
11005:   TMatrix3b', 'TAffineByteMatrix
11006:   TMatrix3w', 'TAffineWordMatrix
11007:   TMatrix3i', 'TAffineIntMatrix
11008:   TMatrix3f', 'TAffineFltMatrix
11009:   TMatrix3d', 'TAffineDblMatrix
11010:   TMatrix3e', 'TAffineExtMatrix
11011:   //PMatrix', '^TMatrix // will not work
11012:   TMatrixGL', 'THomogeneousFltMatrix
11013:   THomogeneousMatrix', 'THomogeneousFltMatrix
11014:   TAffineMatrix', 'TAffineFltMatrix
11015:   TQuaternion', 'record Vector : TVector4f; end

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11016: TRectangle', 'record Left : integer; Top : integer; Width : inte'
11017: + 'ger; Height : Integer; end
11018: TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11019: + 'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11020: + ', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11021: 'EPSILON', 'Extended').setExtended( 1E-100);
11022: 'EPSILON2', 'Extended').setExtended( 1E-50);
11023: Function VectorAddGL( V1, V2 : TVectorGL) : TVectorGL
11024: Function VectorAffineAdd( V1, V2 : TAffineVector) : TAffineVector
11025: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11026: Function VectorAffineDotProduct( V1, V2 : TAffineVector) : Single
11027: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single) : TAffineVector
11028: Function VectorAffineSubtract( V1, V2 : TAffineVector) : TAffineVector
11029: Function VectorAngle( V1, V2 : TAffineVector) : Single
11030: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single) : TVectorGL
11031: Function VectorCrossProduct( V1, V2 : TAffineVector) : TAffineVector
11032: Function VectorDotProduct( V1, V2 : TVectorGL) : Single
11033: Function VectorLength( V : array of Single) : Single
11034: Function VectorLerp( V1, V2 : TVectorGL; t : Single) : TVectorGL
11035: Procedure VectorNegate( V : array of Single)
11036: Function VectorNorm( V : array of Single) : Single
11037: Function VectorNormalize( V : array of Single) : Single
11038: Function VectorPerpendicular( V, N : TAffineVector) : TAffineVector
11039: Function VectorReflect( V, N : TAffineVector) : TAffineVector
11040: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single)
11041: Procedure VectorScale( V : array of Single; Factor : Single)
11042: Function VectorSubtractGL( V1, V2 : TVectorGL) : TVectorGL
11043: Function CreateRotationMatrixX( Sine, Cosine : Single) : TMatrixGL
11044: Function CreateRotationMatrixY( Sine, Cosine : Single) : TMatrixGL
11045: Function CreateRotationMatrixZ( Sine, Cosine : Single) : TMatrixGL
11046: Function CreateScaleMatrix( V : TAffineVector) : TMatrixGL
11047: Function CreateTranslationMatrix( V : TVectorGL) : TMatrixGL
11048: Procedure MatrixAdjoint( var M : TMatrixGL)
11049: Function MatrixAffineDeterminant( M : TAffineMatrix) : Single
11050: Procedure MatrixAffineTranspose( var M : TAffineMatrix)
11051: Function MatrixDeterminant( M : TMatrixGL) : Single
11052: Procedure MatrixInvert( var M : TMatrixGL)
11053: Function MatrixMultiply( M1, M2 : TMatrixGL) : TMatrixGL
11054: Procedure MatrixScale( var M : TMatrixGL; Factor : Single)
11055: Procedure MatrixTranspose( var M : TMatrixGL)
11056: Function QuaternionConjugate( Q : TQuaternion) : TQuaternion
11057: Function QuaternionFromPoints( V1, V2 : TAffineVector) : TQuaternion
11058: Function QuaternionMultiply( qL, qR : TQuaternion) : TQuaternion
11059: Function QuaternionSlerp( QStart, QEnd: TQuaternion; Spin: Integer; t: Single): TQuaternion
11060: Function QuaternionToMatrix( Q : TQuaternion) : TMatrixGL
11061: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector)
11062: Function ConvertRotation( Angles : TAffineVector) : TVectorGL
11063: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single) : TMatrixGL
11064: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations) : Boolean
11065: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix) : TAffineVector
11066: Function VectorTransform( V : TVector4f; M : TMatrixGL) : TVector4f;
11067: Function VectorTransforml( V : TVector3f; M : TMatrixGL) : TVector3f;
11068: Function MakeAffineDblVector( V : array of Double) : THomogeneousDblVector
11069: Function MakeDblVector( V : array of Double) : THomogeneousDblVector
11070: Function MakeAffineVector( V : array of Single) : TAffineVector
11071: Function MakeQuaternion( Imag : array of Single; Real : Single) : TQuaternion
11072: Function MakeVector( V : array of Single) : TVectorGL
11073: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single) : Boolean
11074: Function VectorAffineDblToFlt( V : TAffineDblVector) : TAffineVector
11075: Function VectorDblToFlt( V : THomogeneousDblVector) : THomogeneousVector
11076: Function VectorAffineFltToDbl( V : TAffineVector) : TAffineDblVector
11077: Function VectorFltToDbl( V : TVectorGL) : THomogeneousDblVector
11078: Function ArcCosGL( X : Extended) : Extended
11079: Function ArcSinGL( X : Extended) : Extended
11080: Function ArcTan2GL( Y, X : Extended) : Extended
11081: Function CoTanGL( X : Extended) : Extended
11082: Function DegToRadGL( Degrees : Extended) : Extended
11083: Function RadToDegGL( Radians : Extended) : Extended
11084: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended)
11085: Function TanGL( X : Extended) : Extended
11086: Function Turn( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11087: Function Turnl( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle : Single): TMatrixGL;
11088: Function Pitch( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11089: Function Pitchl( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11090: Function Roll( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11091: Function Rolll( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11092: end;
11093:
11094:
11095: procedure SIRegister_JclRegistry(CL: TPSPascalCompiler);
11096: begin
11097: Function RegCreateKey( const RootKey : HKEY; const Key, Value : string) : Longint
11098: Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string) : Boolean
11099: Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string) : Boolean
11100: Function RegReadBool( const RootKey : HKEY; const Key, Name : string) : Boolean
11101: Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean) : Boolean
11102: Function RegReadInteger( const RootKey : HKEY; const Key, Name : string) : Integer
11103: Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer) : Integer
11104: Function RegReadString( const RootKey : HKEY; const Key, Name : string) : string

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11105: Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string) : string
11106: Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string) : Int64
11107: Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64) : Int64
11108: Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean)
11109: Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer)
11110: Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string)
11111: Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64)
11112: Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings) : Boolean
11113: Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings) : Boolean
11114: Function RegHasSubKeys( const RootKey : HKEY; const Key : string) : Boolean
11115: Function RegKeyExists( const RootKey : HKEY; const Key : string) : Boolean
11116: AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser'
11117: + 'RunOnce, ekServiceRun, ekServiceRunOnce )
11118: AddClassN(FindClass('TOBJECT'), 'EJclRegistryError
11119: Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string) : Boolean
11120: Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string) : Boolean
11121: Function RegSaveList(const RootKey:HKEY; const Key:string; const ListName:string;const
Items:TStrings):Bool;
11122: Function RegLoadList(const RootKey:HKEY; const Key:string; const ListName:string;const
SaveTo:TStrings):Bool;
11123: Function RegDelList( const RootKey:HKEY; const Key:string; const ListName:string): Boolean
11124: end;
11125:
11126: procedure SIRegister_JclCOM(CL: TPSPascalCompiler);
11127: begin
11128: CLSID_StdComponentCategoriesMgr('TGUID').SetString( '{0002E005-0000-0000-C000-000000000046}'
11129: CATID_SafeForInitializing, 'TGUID').SetString( '{7DD95802-9882-11CF-9FA9-00AA006C42C4}'
11130: CATID_SafeForScripting, 'TGUID').SetString( '{7DD95801-9882-11CF-9FA9-00AA006C42C4}'
11131: icMAX_CATEGORY_DESC_LEN, 'LongInt').SetInt( 128);
11132: FindClass('TOBJECT'), 'EInvalidParam
11133: Function IsDCOMInstalled : Boolean
11134: Function IsDCOMEnabled : Boolean
11135: Function GetDCOMVersion : string
11136: Function GetMDACVersion : string
11137: Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;
11138: Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var stm:IStream):HResult;
11139: Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;
11140: Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream):HResult;
11141: Function MarshalInterMachineInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;
11142: Function CreateComponentCategory( const CatID : TGUID; const sDescription : string) : HResult
11143: Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HResult
11144: Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HResult
11145: Function ResetIStreamToStart( Stream : IStream) : Boolean
11146: Function SizeOfIStreamContents( Stream : IStream) : Largeint
11147: Function StreamToVariantArray( Stream : TStream) : OleVariant;
11148: Function StreamToVariantArray1( Stream : IStream) : OleVariant;
11149: Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream);
11150: Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream);
11151: end;
11152:
11153:
11154: procedure SIRegister_JclUnitConv_mX2(CL: TPSPascalCompiler);
11155: begin
11156: Const('CelsiusFreezingPoint', 'Extended').setExtended( 0.0);
11157: FahrenheitFreezingPoint, 'Extended').setExtended( 32.0);
11158: KelvinFreezingPoint, 'Extended').setExtended( 273.15);
11159: CelsiusAbsoluteZero, 'Extended').setExtended( - 273.15);
11160: FahrenheitAbsoluteZero, 'Extended').setExtended( - 459.67);
11161: KelvinAbsoluteZero, 'Extended').setExtended( 0.0);
11162: DegPerCycle, 'Extended').setExtended( 360.0);
11163: DegPerGrad, 'Extended').setExtended( 0.9);
11164: DegPerRad, 'Extended').setExtended( 57.295779513082320876798154814105);
11165: GradPerCycle, 'Extended').setExtended( 400.0);
11166: GradPerDeg, 'Extended').setExtended( 1.11111111111111111111111111111111);
11167: GradPerRad, 'Extended').setExtended( 63.661977236758134307553505349006);
11168: RadPerCycle, 'Extended').setExtended( 6.283185307179586476925286766559);
11169: RadPerDeg, 'Extended').setExtended( 0.017453292519943295769236907684886);
11170: RadPerRad, 'Extended').setExtended( 0.015707963267948966192313216916398);
11171: CyclePerDeg, 'Extended').setExtended( 0.0027777777777777777777777777777778);
11172: CyclePerGrad, 'Extended').setExtended( 0.0025);
11173: CyclePerRad, 'Extended').setExtended( 0.15915494309189533576888376337251);
11174: ArcMinutesPerDeg, 'Extended').setExtended( 60.0);
11175: ArcSecondsPerArcMinute, 'Extended').setExtended( 60.0);
11176: Function HowAOneLinerCanBiteYou( const Step, Max : Longint) : Longint
11177: Function MakePercentage( const Step, Max : Longint) : Longint
11178: Function CelsiusToKelvin( const T : double) : double
11179: Function CelsiusToFahrenheit( const T : double) : double
11180: Function KelvinToCelsius( const T : double) : double
11181: Function KelvinToFahrenheit( const T : double) : double
11182: Function FahrenheitToCelsius( const T : double) : double
11183: Function FahrenheitToKelvin( const T : double) : double
11184: Function CycleToDeg( const Cycles : double) : double
11185: Function CycleToGrad( const Cycles : double) : double
11186: Function CycleToRad( const Cycles : double) : double
11187: Function DegToCycle( const Degrees : double) : double
11188: Function DegToGrad( const Degrees : double) : double

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11189: Function DegToRad( const Degrees : double) : double
11190: Function GradToCycle( const Grads : double) : double
11191: Function GradToDeg( const Grads : double) : double
11192: Function GradToRad( const Grads : double) : double
11193: Function RadToCycle( const Radians : double) : double
11194: Function RadToDeg( const Radians : double) : double
11195: Function RadToGrad( const Radians : double) : double
11196: Function DmsToDeg( const D, M : Integer; const S : double) : double
11197: Function DmsToRad( const D, M : Integer; const S : double) : double
11198: Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double)
11199: Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal) : string
11200: Procedure CartesianToPolar( const X, Y : double; out R, Phi : double)
11201: Procedure PolarToCartesian( const R, Phi : double; out X, Y : double)
11202: Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double)
11203: Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double)
11204: Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double)
11205: Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double)
11206: Function CmToInch( const Cm : double) : double
11207: Function InchToCm( const Inch : double) : double
11208: Function FeetToMetre( const Feet : double) : double
11209: Function MetreToFeet( const Metre : double) : double
11210: Function YardToMetre( const Yard : double) : double
11211: Function MetreToYard( const Metre : double) : double
11212: Function NmToKm( const Nm : double) : double
11213: Function KmToNm( const Km : double) : double
11214: Function KmToSm( const Km : double) : double
11215: Function SmToKm( const Sm : double) : double
11216: Function LitreToGalUs( const Litre : double) : double
11217: Function GalUsToLitre( const GalUs : double) : double
11218: Function GalUsToGalCan( const GalUs : double) : double
11219: Function GalCanToGalUs( const GalCan : double) : double
11220: Function GalUsToGalUk( const GalUs : double) : double
11221: Function GalUkToGalUs( const GalUk : double) : double
11222: Function LitreToGalCan( const Litre : double) : double
11223: Function GalCanToLitre( const GalCan : double) : double
11224: Function LitreToGalUk( const Litre : double) : double
11225: Function GalUkToLitre( const GalUk : double) : double
11226: Function KgToLb( const Kg : double) : double
11227: Function LbToKg( const Lb : double) : double
11228: Function KgToOz( const Kg : double) : double
11229: Function OzToKg( const Oz : double) : double
11230: Function CwtUsToKg( const Cwt : double) : double
11231: Function CwtUkToKg( const Cwt : double) : double
11232: Function KaratToKg( const Karat : double) : double
11233: Function KgToCwtUs( const Kg : double) : double
11234: Function KgToCwtUk( const Kg : double) : double
11235: Function KgToKarat( const Kg : double) : double
11236: Function KgToSton( const Kg : double) : double
11237: Function KgToLton( const Kg : double) : double
11238: Function StonToKg( const STon : double) : double
11239: Function LtonToKg( const Lton : double) : double
11240: Function QrUsToKg( const Qr : double) : double
11241: Function QrUkToKg( const Qr : double) : double
11242: Function KgToQrUs( const Kg : double) : double
11243: Function KgToQrUk( const Kg : double) : double
11244: Function PascalToBar( const Pa : double) : double
11245: Function PascalToAt( const Pa : double) : double
11246: Function PascalToTorr( const Pa : double) : double
11247: Function BarToPascal( const Bar : double) : double
11248: Function AtToPascal( const At : double) : double
11249: Function TorrToPascal( const Torr : double) : double
11250: Function KnotToMs( const Knot : double) : double
11251: Function HpElectricToWatt( const HpE : double) : double
11252: Function HpMetricToWatt( const HpM : double) : double
11253: Function MsToKnot( const ms : double) : double
11254: Function WattToHpElectric( const W : double) : double
11255: Function WattToHpMetric( const W : double) : double
11256: function getBigPI: string; //PI of 1000 numbers
11257:
11258: procedure SIRegister_devcutils(CL: TPSPascalCompiler);
11259: begin
11260:   Function CDEExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11261: Procedure CDCopyFile( const FileName, DestName : string)
11262: Procedure CDMoveFile( const FileName, DestName : string)
11263: Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11264: Procedure CDDeleteFiles( Sender : TObject; s : string)
11265: Function CDGetTempDir : string
11266: Function CDGetFileSize( FileName : string) : longint
11267: Function GetFileTime( FileName : string) : longint
11268: Function GetShortName( FileName : string) : string
11269: Function GetFullName( FileName : string) : string
11270: Function WinReboot : boolean
11271: Function WinDir : String
11272: Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11273: Function RunFile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11274: Function devExecutor : TdevExecutor
11275: end;
11276:
11277: procedure SIRegister_FileAssocs(CL: TPSPascalCompiler);

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11278: begin
11279: Procedure CheckAssociations // AssociationsCount', 'LongInt').SetInt( 7);
11280: Procedure Associate( Index : integer)
11281: Procedure UnAssociate( Index : integer)
11282: Function IsAssociated( Index : integer) : boolean
11283: Function CheckFileType( const extension, filetype, description, verb, serverapp : string) : boolean
11284: Procedure RegisterFileType( const extension, filetype, description, verb, serverapp, IcoNum: string)
11285: Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11286: procedure RefreshIcons;
11287: function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11288: function MergColor(Colors: Array of TColor): TColor;
11289: function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11290: procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11291: function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11292: function GetInverseColor(AColor: TColor): TColor;
11293: procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11294: procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X, Y: integer; ShadowColor: TColor);
11295: procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11296: Procedure GetSystemMenuFont(Font: TFont);
11297: end;
11298:
11299: //*****unit uPSI_JvHLParse;*****
11300: function IsStringConstant(const St: string): Boolean;
11301: function IsIntConstant(const St: string): Boolean;
11302: function IsRealConstant(const St: string): Boolean;
11303: function IsIdentifier(const ID: string): Boolean;
11304: function GetStringValue(const St: string): string;
11305: procedure ParseString(const S: string; Ss: TStrings);
11306: function IsStringConstantW(const St: WideString): Boolean;
11307: function IsIntConstantW(const St: WideString): Boolean;
11308: function IsRealConstantW(const St: WideString): Boolean;
11309: function IsIdentifierW(const ID: WideString): Boolean;
11310: function GetStringValueW(const St: WideString): WideString;
11311: procedure ParseStringW(const S: WideString; Ss: TStrings);
11312:
11313:
11314: //*****unit uPSI_JclMapi;*****
11315:
11316: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment :
TFileName; ShowDialog : Boolean; AParentWND : HWND) : Boolean
11317: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment :
TFileName; ShowDialog : Boolean; AParentWND : HWND) : Boolean
11318: Function JclSimpleBringUpSendMailDialog(const ASubject, ABody: string; const
AAttach: TFileName; AParentWND: HWND): Bool;
11319: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean) : DWORD
11320: Function MapiErrorMessage( const ErrorCode : DWORD) : string
11321:
11322: procedure SIRegister_IdNTLM(CL: TPSPascalCompiler);
11323: begin
11324: // 'Pdes_key_schedule', '^des_key_schedule // will not work
11325: Function BuildType1Message( ADomain, AHost : String) : String
11326: Function BuildType3Message(ADomain, AHost, AUsername: WideString; APassword, ANonce: String): String
11327: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIdAuthenticationClass)
11328: Function FindAuthClass( AuthName : String) : TIdAuthenticationClass
11329: GBase64CodeTable', 'string').SetString('ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
11330: GXHECodeTable', 'string').SetString('+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
11331: GUUECodeTable', 'string').SetString('~!#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_
11332: end;
11333:
11334: procedure SIRegister_WDosSocketUtils(CL: TPSPascalCompiler);
11335: begin
11336: ('IpAny', 'LongWord').SetUInt( $00000000);
11337: IpLoopBack', 'LongWord').SetUInt( $7F000001);
11338: IpBroadcast', 'LongWord').SetUInt( $FFFFFFF);
11339: IpNone', 'LongWord').SetUInt( $FFFFFFF);
11340: PortAny', 'LongWord').SetUInt( $0000);
11341: SocketMaxConnections', 'LongInt').SetInt( 5);
11342: TIpAddr', 'LongWord
11343: TIpRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11344: Function HostToNetLong( HostLong : LongWord) : LongWord
11345: Function HostToNetShort( HostShort : Word) : Word
11346: Function NetToHostLong( NetLong : LongWord) : LongWord
11347: Function NetToHostShort( NetShort : Word) : Word
11348: Function StrToIp( Ip : string) : TIpAddr
11349: Function IpToStr( Ip : TIpAddr) : string
11350: end;
11351:
11352: (*-----*)
11353: procedure SIRegister_ALSMTPClient(CL: TPSPascalCompiler);
11354: begin
11355: TALsmtpClientAuthType', '( AlsmtpClientAuthNone, alsmtpClientAut
11356: + 'hPlain, AlsmtpClientAuthLogin, AlsmtpClientAuthCramMD5, AlsmtpClientAuthCr
11357: + 'amShal, AlsmtpClientAuthAutoSelect )
11358: TALsmtpClientAuthTypeSet', 'set of TALsmtpClientAuthType
11359: SIRegister_TALsmtpClient(CL);
11360: end;
11361:
11362: procedure SIRegister_WDosPlcUtils(CL: TPSPascalCompiler);
11363: begin

```

```

11364: 'TBitNo', 'Integer
11365:   TStByteNo', 'Integer
11366: TStationNo', 'Integer
11367: TInOutNo', 'Integer
11368: TIo', '( EE, AA, NE, NA )
11369: TBitSet', 'set of TBitNo
11370: TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11371: TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11372: TBitAddr', 'LongInt
11373: TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11374: TByteAddr', 'SmallInt
11375: TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11376:   Function BitAddr(aIo: TIo; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11377:   Function BusBitAddr(aIo:TIo;aInOutNo:TInOutNo;aStat:TStationNo;aStByteNo:TStByteNo;aBitNo:TBitNo) :
TBitAddr;
11378: Procedure BitAddrToValues(aBitAdr:TBitAdr;var aIo:TIo;var aInOutNo:TInOutNo;var aByteNo:Byte;var
aBitNo:TBitNo);
11379: Function BitAddrToStr( Value : TBitAddr) : string
11380: Function StrToBitAddr( const Value : string) : TBitAddr
11381: Function ByteAddr( aIo : TIo; aInOutNo : TInOutNo; aByteNo : Byte) : TByteAddr
11382: Function BusByteAddr(aIo:TIo;aInOutNo:TInOutNo;aStation:TStationNo;aStByteNo: TStByteNo):TByteAddr
11383: Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIo;var aInOutNo:TInOutNo;var aByteNo:Byte)
11384: Function ByteAddrToStr( Value : TByteAddr) : string
11385: Function StrToByteAddr( const Value : string) : TByteAddr
11386: Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer)
11387: Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer)
11388: Function InOutStateToStr( State : TInOutState) : string
11389: Function MasterErrorToStr( ErrorCode : TErrorCode) : string
11390: Function SlaveErrorToStr( ErrorCode : TErrorCode) : string
11391: end;
11392:
11393: procedure SIRegister_WDosTimers(CL: TPSPascalCompiler);
11394: begin
11395: TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11396:   + 'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11397: DpmiPmVector', 'Int64
11398: 'DInterval','LongInt').SetInt( 1000);
11399: // 'DEnabled','Boolean')BoolToStr( True);
11400: 'DIntFreq','string').SetString( ' if64
11401: // 'DMessages','Boolean').SetString( if64);
11402: SIRegister_TwdxCustomTimer(CL);
11403: SIRegister_TwdxTimer(CL);
11404: SIRegister_TwdxRtcTimer(CL);
11405: SIRegister_TCustomIntTimer(CL);
11406: SIRegister_TIntTimer(CL);
11407: SIRegister_TRtcIntTimer(CL);
11408: Function RealNow : TDateTime
11409: Function MsToDateTime( MilliSecond : LongInt) : TDateTime
11410: Function DateTimeToMs( Time : TDateTime) : LongInt
11411: end;
11412:
11413: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11414: begin
11415: TIdSyslogPRI', 'Integer
11416: TIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11417:   + 'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11418:   + 'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11419:   + 'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11420:   + 'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11421: TIdSyslogSeverity', '( slEmergency, slAlert, slCritical, slError'
11422:   + ', slWarning, slNotice, slInformational, slDebug )
11423: SIRegister_TIdSysLogMsgPart(CL);
11424: SIRegister_TIdSysLogMessage(CL);
11425: Function FacilityToString( AFac : TIdSyslogFacility) : string
11426: Function SeverityToString( ASec : TIdSyslogSeverity) : string
11427: Function NoToSeverity( ASev : Word) : TIdSyslogSeverity
11428: Function logSeverityToNo( ASev : TIdSyslogSeverity) : Word
11429: Function NoToFacility( AFac : Word) : TIdSyslogFacility
11430: Function logFacilityToNo( AFac : TIdSyslogFacility) : Word
11431: end;
11432:
11433: procedure SIRegister_TextUtils(CL: TPSPascalCompiler);
11434: begin
11435: 'UWhitespace','String').SetString( '(:\s*)
11436: Function StripSpaces( const AText : string) : string
11437: Function CharCount( const AText : string; Ch : Char) : Integer
11438: Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer) : string
11439: Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer) : string
11440: end;
11441:
11442:
11443: procedure SIRegister_ExtPascalUtils(CL: TPSPascalCompiler);
11444: begin
11445: ExtPascalVersion','String').SetString( '0.9.8
11446: AddTypeS('TBrowser', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11447:   + 'Opera, brKonqueror, brMobileSafari )
11448: AddTypeS('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11449: AddTypeS('TExtProcedure', 'Procedure
11450: Function DetermineBrowser( const UserAgentStr : string) : TBrowser

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11451: Function ExtExtract(const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool):bool;
11452: Function ExtExplode( Delim : char; const S : string; Separator : char) : TStringList
11453: Function FirstDelimiter( const Delimiters, S : string; Offset : integer) : integer
11454: Function RPosEx( const Substr, Str : string; Offset : integer) : integer
11455: Function CountStr( const Substr, Str : string; UntilStr : string) : integer
11456: Function StrToJS( const S : string; UseBR : boolean) : string
11457: Function CaseOf( const S : string; const Cases : array of string) : integer
11458: Function RCaseOf( const S : string; const Cases : array of string) : integer
11459: Function EnumToJSSString( TypeInfo : PTypeInfo; Value : integer) : string
11460: Function SetPaddings(Top:integer;Right:int;Bottom:intr;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11461: Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool): string;
11462: Function ExtBefore( const BeforeS, AfterS, S : string) : boolean
11463: Function IsUpperCase( S : string) : boolean
11464: Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11465: Function BeautifyCSS( const AStyle : string) : string
11466: Function LengthRegExp( Rex : string; CountAll : Boolean) : integer
11467: Function JSDateToDateTime( JSDate : string) : TDateTime
11468: end;
11469:
11470: procedure SIRegister_JclShell(CL: TPSPascalCompiler);
11471: begin
11472:   TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11473:   TSHDeleteOptions', 'set of TSHDeleteOption
11474:   TSHRenameOption', '( roSilent, roRenameOnCollision )
11475:   TSHRenameOptions', 'set of TSHRenameOption
11476: Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions) : Boolean
11477: Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions) : Boolean
11478: Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions) : Boolean
11479: TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11480: TEnumFolderFlags', 'set of TEnumFolderFlag
11481: TEnumFolderRec', 'record DisplayName : string; Attributes : DWORD'
11482:   + 'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11483:   + 'TEnumIdList; Folder : IShellFolder; end
11484: Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11485: Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11486: Procedure SHEnumFolderClose( var F : TEnumFolderRec)
11487: Function SHEnumFolderNext( var F : TEnumFolderRec) : Boolean
11488: Function GetSpecialFolderLocation( const Folder : Integer) : string
11489: Function DisplayPropDialog( const Handle : HWND; const FileName : string) : Boolean;
11490: Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList) : Boolean;
11491: Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint) : Boolean
11492: Function OpenFolder( const Path : string; Parent : HWND) : Boolean
11493: Function OpenSpecialFolder( FolderID : Integer; Parent : HWND) : Boolean
11494: Function SHReallocMem( var P : Pointer; Count : Integer) : Boolean
11495: Function SHAllocMem( out P : Pointer; Count : Integer) : Boolean
11496: Function SHGetMem( var P : Pointer; Count : Integer) : Boolean
11497: Function SHFreeMem( var P : Pointer) : Boolean
11498: Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder) : PItemIdList
11499: Function PathToPidl( const Path : string; Folder : IShellFolder) : PItemIdList
11500: Function PathToPidlBind( const FileName : string; out Folder : IShellFolder) : PItemIdList
11501: Function PidlBindToParent(const IdList:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11502: Function PidlCompare( const Pidl1, Pidl2 : PItemIdList) : Boolean
11503: Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList) : Boolean
11504: Function PidlFree( var IdList : PItemIdList) : Boolean
11505: Function PidlGetDepth( const Pidl : PItemIdList) : Integer
11506: Function PidlGetLength( const Pidl : PItemIdList) : Integer
11507: Function PidlGetNext( const Pidl : PItemIdList) : PItemIdList
11508: Function PidlToPath( IdList : PItemIdList) : string
11509: Function StrRetFreeMem( StrRet : TStrRet) : Boolean
11510: Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean) : string
11511: PShellLink', '^TShellLink // will not work
11512: TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11513:   + 'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11514:   + ': string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11515: Procedure ShellLinkFree( var Link : TShellLink)
11516: Function ShellLinkResolve( const FileName : string; var Link : TShellLink) : HRESULT
11517: Function ShellLinkCreate( const Link : TShellLink; const FileName : string) : HRESULT
11518: Function ShellLinkCreateSystem(const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11519: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon) : Boolean
11520: Function SHDllGetVersion( const FileName : string; var Version : TDllVersionInfo) : Boolean
11521: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal) : HICON
11522: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean) : Boolean
11523: Function OverlayIconShortCut( var Large, Small : HICON) : Boolean
11524: Function OverlayIconShared( var Large, Small : HICON) : Boolean
11525: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList) : string
11526: Function ShellExecEx(const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int):Bool;
11527: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int):Bool;
11528: Function ShellExecAndWait(const FileName:string;const Paramets:string;const Verb:string;CmdShow:Int):Bool;
11529: Function ShellOpenAs( const FileName : string) : Boolean
11530: Function ShellRasDial( const EntryName : string) : Boolean
11531: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11532: Function GetFileNameIcon( const FileName : string; Flags : Cardinal) : HICON
11533: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )
11534: Function GetFileExeType( const FileName : TFileName) : TJclFileExeType
11535: Function ShellFindExecutable( const FileName, DefaultDir : string) : string
11536: Procedure keybd_event( bVk : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD)
11537: Function OemKeyScan( wOemChar : Word) : DWORD
11538: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD)
11539: end;

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11540:
11541: procedure SIRegister_cXMLFunctions(CL: TPSPascalCompiler);
11542: begin
11543:   xmlVersion('String').SetString( '1.0 FindClass('TOBJECT'),'Exml
11544:   //Function xmlValidChar( const Ch : AnsiChar) : Boolean;
11545:   Function xmlValidChar1( const Ch : UCS4Char) : Boolean;
11546:   Function xmlValidChar2( const Ch : WideChar) : Boolean;
11547:   Function xmlIsSpaceChar( const Ch : WideChar) : Boolean
11548:   Function xmlIsLetter( const Ch : WideChar) : Boolean
11549:   Function xmlIsDigit( const Ch : WideChar) : Boolean
11550:   Function xmlIsNameStartChar( const Ch : WideChar) : Boolean
11551:   Function xmlIsNameChar( const Ch : WideChar) : Boolean
11552:   Function xmlIsPubidChar( const Ch : WideChar) : Boolean
11553:   Function xmlValidName( const Text : UnicodeString) : Boolean
11554:   //xmlSpace('Char').SetString( #20 or #9 or #D or #A);
11555:   //Function xmlSkipSpace( var P : PWideChar) : Boolean
11556:   //Function xmlSkipEq( var P : PWideChar) : Boolean
11557:   //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString) : Boolean
11558:   //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer)
: TUnicodeCodecClass
11559:   Function xmlResolveEntityReference( const RefName : UnicodeString) : WideChar
11560:   Function xmlTag( const Tag : UnicodeString) : UnicodeString
11561:   Function xmlEndTag( const Tag : UnicodeString) : UnicodeString
11562:   Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString) : UnicodeString
11563:   Function xmlEmptyTag( const Tag, Attr : UnicodeString) : UnicodeString
11564:   Procedure xmlSafeTextInPlace( var Txt : UnicodeString)
11565:   Function xmlSafeText( const Txt : UnicodeString) : UnicodeString
11566:   Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer):UnicodeString
11567:   Function xmlTabIndent( const IndentLevel : Integer) : UnicodeString
11568:   Function xmlComment( const Comment : UnicodeString) : UnicodeString
11569:   Procedure SelfTestcXMLFunctions
11570: end;
11571:
11572: (*-----*)
11573: procedure SIRegister_DepWalkUtils(CL: TPSPascalCompiler);
11574: begin
11575:   Function AWaitCursor : IUnknown
11576:   Function ChangeCursor( NewCursor : TCursor) : IUnknown
11577:   Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean)
11578:   Function YesNo( const ACaption, AMsg : string) : boolean
11579:   Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings)
11580:   Function GetBorlandLibPath( Version : integer; ForDelphi : boolean) : string
11581:   Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean) : string
11582:   Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings)
11583:   Procedure GetSystemPaths( Strings : TStrings)
11584:   Procedure MakeEditNumeric( EditHandle : integer)
11585: end;
11586:
11587: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11588: begin
11589:   AddTypeS('TVideoCodec', '(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11590:   'BI_YUY2','LongWord').SetUInt( $32595559);
11591:   'BI_UYVY','LongWord').SetUInt( $59565955);
11592:   'BI_BTUV','LongWord').SetUInt( $50313459);
11593:   'BI_YVU9','LongWord').SetUInt( $39555659);
11594:   'BI_YUV12','LongWord').SetUInt( $30323449);
11595:   'BI_Y8','LongWord').SetUInt( $20203859);
11596:   'BI_Y211','LongWord').SetUInt( $31313259);
11597:   Function BICompressionToVideoCodec( Value : DWord) : TVideoCodec
11598:   Function ConvertCodecToRGB(Coec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11599: end;
11600:
11601: (*-----*)
11602: procedure SIRegister_AviCap(CL: TPSPascalCompiler);
11603: begin
11604:   'WM_USER','LongWord').SetUInt( $0400);
11605:   'WM_CAP_START','LongWord').SetUInt($0400);
11606:   'WM_CAP_END','longword').SetUInt($0400+85);
11607:   //WM_CAP_START+ 85
11608:   // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11609:   Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt) : LongInt
11610:   Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt) : LongInt
11611:   Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt) : LongInt
11612:   Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt) : LongInt
11613:   Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt) : LongInt
11614:   Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt) : LongInt
11615:   Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt) : LongInt
11616:   Function capSetUserData( hwnd : THandle; lUser : LongInt) : LongInt
11617:   Function capGetUserData( hwnd : THandle) : LongInt
11618:   Function capDriverConnect( hwnd : THandle; I : Word) : LongInt
11619:   Function capDriverDisconnect( hwnd : THandle) : LongInt
11620:   Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11621:   Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word) : LongInt
11622:   Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11623:   Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt) : LongInt
11624:   Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11625:   Function capFileAlloc( hwnd : THandle; dwSize : LongInt) : LongInt
11626:   Function capFileSaveAs( hwnd : THandle; szName : LongInt) : LongInt
11627:   Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt) : LongInt

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11628: Function capFileSaveDIB( hwnd : THandle; szName : LongInt ) : LongInt
11629: Function capEditCopy( hwnd : THandle ) : LongInt
11630: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11631: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11632: Function capGetAudioFormatSize( hwnd : THandle ) : LongInt
11633: Function capDlgVideoFormat( hwnd : THandle ) : LongInt
11634: Function capDlgVideoSource( hwnd : THandle ) : LongInt
11635: Function capDlgVideoDisplay( hwnd : THandle ) : LongInt
11636: Function capDlgVideoCompression( hwnd : THandle ) : LongInt
11637: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11638: Function capGetVideoFormatSize( hwnd : THandle ) : LongInt
11639: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11640: Function capPreview( hwnd : THandle; f : Word ) : LongInt
11641: Function capPreviewRate( hwnd : THandle; wMS : Word ) : LongInt
11642: Function capOverlay( hwnd : THandle; f : Word ) : LongInt
11643: Function capPreviewScale( hwnd : THandle; f : Word ) : LongInt
11644: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11645: Function capSetScrollPos( hwnd : THandle; lpP : LongInt ) : LongInt
11646: Function capGrabFrame( hwnd : THandle ) : LongInt
11647: Function capGrabFrameNoStop( hwnd : THandle ) : LongInt
11648: Function capCaptureSequence( hwnd : THandle ) : LongInt
11649: Function capCaptureSequenceNoFile( hwnd : THandle ) : LongInt
11650: Function capCaptureStop( hwnd : THandle ) : LongInt
11651: Function capCaptureAbort( hwnd : THandle ) : LongInt
11652: Function capCaptureSingleFrameOpen( hwnd : THandle ) : LongInt
11653: Function capCaptureSingleFrameClose( hwnd : THandle ) : LongInt
11654: Function capCaptureSingleFrame( hwnd : THandle ) : LongInt
11655: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11656: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11657: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt ) : LongInt
11658: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11659: Function capPaletteOpen( hwnd : THandle; szName : LongInt ) : LongInt
11660: Function capPaletteSave( hwnd : THandle; szName : LongInt ) : LongInt
11661: Function capPalettePaste( hwnd : THandle ) : LongInt
11662: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt ) : LongInt
11663: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt ) : LongInt
11664: //PCapDriverCaps', '^TCapDriverCaps // will not work
11665: TCapDriverCaps', record wDeviceIndex : WORD; fHasOverlay : BOOL
11666: +; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla
11667: +y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hVid
11668: +eoIn : THandle; hVideoOut : THandle; hVideoExtIn:THandle; hVideoExtOut:THandle; end
11669: //PCapStatus', '^TCapStatus // will not work
11670: TCapStatus', record uiImageWidth : UINT; uiImageHeight : UINT;
11671: +fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOINT
11672: +T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO
11673: +OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu
11674: +rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP
11675: +LETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD;
11676: + wNumAudioAllocated : WORD; end
11677: //PCaptureParams', '^TCaptureParams // will not work
11678: TCaptureParams', record dwRequestMicroSecPerFrame : DWORD; fMake
11679: +UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI
11680: +ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi
11681: +deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey
11682: +Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl
11683: +ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d
11684: +wMCICStartTime : DWORD; dwMCICStopTime : DWORD; fStepCaptureAt2x : BOOL; wSt
11685: +epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac
11686: +he : BOOL; AVStreamMaster : WORD; end
11687: // PCapInfoChunk', '^TCapInfoChunk // will not work
11688: //TCapInfoChunk', record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11689: 'CONTROLCALLBACK_PREROLL', 'LongInt').SetInt( 1);
11690: 'CONTROLCALLBACK_CAPTURING', 'LongInt').SetInt( 2);
11691: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer) : THandle
11692: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Integer):Bool;
11693: 'IDS_CAP_BEGIN', 'LongInt').SetInt( 300);
11694: 'IDS_CAP_END', 'LongInt').SetInt( 301);
11695: 'IDS_CAP_INFO', 'LongInt').SetInt( 401);
11696: 'IDS_CAP_OUTOFMEM', 'LongInt').SetInt( 402);
11697: 'IDS_CAP_FILEEXISTS', 'LongInt').SetInt( 403);
11698: 'IDS_CAP_ERRORPALOPEN', 'LongInt').SetInt( 404);
11699: 'IDS_CAP_ERRORPALSAVE', 'LongInt').SetInt( 405);
11700: 'IDS_CAP_ERRORDIBSAVE', 'LongInt').SetInt( 406);
11701: 'IDS_CAP_DEFAVIEXT', 'LongInt').SetInt( 407);
11702: 'IDS_CAP_DEFPALEXT', 'LongInt').SetInt( 408);
11703: 'IDS_CAP_CANTOPEN', 'LongInt').SetInt( 409);
11704: 'IDS_CAP_SEQ_MSGSTART', 'LongInt').SetInt( 410);
11705: 'IDS_CAP_SEQ_MSGSTOP', 'LongInt').SetInt( 411);
11706: 'IDS_CAP_VIDEDITERR', 'LongInt').SetInt( 412);
11707: 'IDS_CAP_READONLYFILE', 'LongInt').SetInt( 413);
11708: 'IDS_CAP_WRITEERROR', 'LongInt').SetInt( 414);
11709: 'IDS_CAP_NODISKSPACE', 'LongInt').SetInt( 415);
11710: 'IDS_CAP_SETFILESIZE', 'LongInt').SetInt( 416);
11711: 'IDS_CAP_SAVEASPERCENT', 'LongInt').SetInt( 417);
11712: 'IDS_CAP_DRIVER_ERROR', 'LongInt').SetInt( 418);
11713: 'IDS_CAP_WAVE_OPEN_ERROR', 'LongInt').SetInt( 419);
11714: 'IDS_CAP_WAVE_ALLOC_ERROR', 'LongInt').SetInt( 420);

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11715: 'IDS_CAP_WAVE_PREPARE_ERROR', 'LongInt').SetInt( 421);
11716: 'IDS_CAP_WAVE_ADD_ERROR', 'LongInt').SetInt( 422);
11717: 'IDS_CAP_WAVE_SIZE_ERROR', 'LongInt').SetInt( 423);
11718: 'IDS_CAP_VIDEO_OPEN_ERROR', 'LongInt').SetInt( 424);
11719: 'IDS_CAP_VIDEO_ALLOC_ERROR', 'LongInt').SetInt( 425);
11720: 'IDS_CAP_VIDEO_PREPARE_ERROR', 'LongInt').SetInt( 426);
11721: 'IDS_CAP_VIDEO_ADD_ERROR', 'LongInt').SetInt( 427);
11722: 'IDS_CAP_VIDEO_SIZE_ERROR', 'LongInt').SetInt( 428);
11723: 'IDS_CAP_FILE_OPEN_ERROR', 'LongInt').SetInt( 429);
11724: 'IDS_CAP_FILE_WRITE_ERROR', 'LongInt').SetInt( 430);
11725: 'IDS_CAP_RECORDING_ERROR', 'LongInt').SetInt( 431);
11726: 'IDS_CAP_RECORDING_ERROR2', 'LongInt').SetInt( 432);
11727: 'IDS_CAP_AVI_INIT_ERROR', 'LongInt').SetInt( 433);
11728: 'IDS_CAP_NO_FRAME_CAP_ERROR', 'LongInt').SetInt( 434);
11729: 'IDS_CAP_NO_PALETTE_WARN', 'LongInt').SetInt( 435);
11730: 'IDS_CAP_MCI_CONTROL_ERROR', 'LongInt').SetInt( 436);
11731: 'IDS_CAP_MCI_CANT_STEP_ERROR', 'LongInt').SetInt( 437);
11732: 'IDS_CAP_NO_AUDIO_CAP_ERROR', 'LongInt').SetInt( 438);
11733: 'IDS_CAP_AVI_DRAWDIB_ERROR', 'LongInt').SetInt( 439);
11734: 'IDS_CAP_COMPRESSOR_ERROR', 'LongInt').SetInt( 440);
11735: 'IDS_CAP_AUDIO_DROP_ERROR', 'LongInt').SetInt( 441);
11736: 'IDS_CAP_STAT_LIVE_MODE', 'LongInt').SetInt( 500);
11737: 'IDS_CAP_STAT_OVERLAY_MODE', 'LongInt').SetInt( 501);
11738: 'IDS_CAP_STAT_CAP_INIT', 'LongInt').SetInt( 502);
11739: 'IDS_CAP_STAT_CAP_FINI', 'LongInt').SetInt( 503);
11740: 'IDS_CAP_STAT_PALETTE_BUILD', 'LongInt').SetInt( 504);
11741: 'IDS_CAP_STAT_OPTPAL_BUILD', 'LongInt').SetInt( 505);
11742: 'IDS_CAP_STAT_I_FRAMES', 'LongInt').SetInt( 506);
11743: 'IDS_CAP_STAT_L_FRAMES', 'LongInt').SetInt( 507);
11744: 'IDS_CAP_STAT_CAP_L_FRAMES', 'LongInt').SetInt( 508);
11745: 'IDS_CAP_STAT_CAP_AUDIO', 'LongInt').SetInt( 509);
11746: 'IDS_CAP_STAT_VIDEOCURRENT', 'LongInt').SetInt( 510);
11747: 'IDS_CAP_STAT_VIDEOAUDIO', 'LongInt').SetInt( 511);
11748: 'IDS_CAP_STAT_VIDEOONLY', 'LongInt').SetInt( 512);
11749: 'IDS_CAP_STAT_FRAMESDROPPED', 'LongInt').SetInt( 513);
11750: 'AVICAP32', 'String').SetString( 'AVICAP32.dll
11751: end;
11752:
11753: procedure SIRegister_ALFcnMisc(CL: TPSPascalCompiler);
11754: begin
11755:   Function AlBoolToInt( Value : Boolean) : Integer
11756:   Function AlMediumPos( LTotal, LBorder, LObject : integer) : Integer
11757:   Function AlIsValidEmail( const Value : AnsiString) : boolean
11758:   Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime) : TDateTime
11759:   Function AlInc( var x : integer; Count : integer) : Integer
11760:   function AlCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11761:   function AlGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite): AnsiString;
11762:   procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11763:   Function AlIsInteger(const S: AnsiString): Boolean;
11764:   function AlIsDecimal(const S: AnsiString): boolean;
11765:   Function AlStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11766:   function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11767:   function AlQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''''): AnsiString;
11768:   function AlDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11769:   function AlUTF8removeBOM(const S: AnsiString): AnsiString;
11770:   Function AlRandomStr(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11771:   Function AlRandomStr(const aLength: Longint): AnsiString;
11772:   Function AlRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11773:   Function AlRandomStrU(const aLength: Longint): String;
11774: end;
11775:
11776: procedure SIRegister_ALJSONDoc(CL: TPSPascalCompiler);
11777: begin
11778:   Procedure ALJSONToTStrings(const AJsonStr: AnsiString; aLst: TALStrings; const aNullStr: AnsiString; const
aTrueStr: AnsiString; const aFalseStr : AnsiString)
11779: end;
11780:
11781: procedure SIRegister_ALWindows(CL: TPSPascalCompiler);
11782: begin
11783:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11784:   +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11785:   +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11786:   +' ; ullAvailExtendedVirtual : Int64; end
11787:   TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11788:   Function AlGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX) : BOOL
11789:   Function AlInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG) : LONGLONG
11790:   'INVALID_SET_FILE_POINTER', 'LongInt').SetInt( DWORD ( - 1 ));
11791:   'QUOTA_LIMITS_HARDWS_MIN_DISABLE', 'LongWord').SetUInt( $2);
11792:   'QUOTA_LIMITS_HARDWS_MIN_ENABLE', 'LongWord').SetUInt( $1);
11793:   'QUOTA_LIMITS_HARDWS_MAX_DISABLE', 'LongWord').SetUInt( $8);
11794:   'QUOTA_LIMITS_HARDWS_MAX_ENABLE', 'LongWord').SetUInt( $4);
11795: end;
11796:
11797: procedure SIRegister_IPCThrd(CL: TPSPascalCompiler);
11798: begin
11799:   SIRegister_THandledObject(CL);
11800:   SIRegister_TEvent(CL);
11801:   SIRegister_TMutex(CL);
11802:   SIRegister_TSharedMem(CL);

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11803: 'TRACE_BUF_SIZE','LongInt').SetInt( 200 * 1024);
11804: 'TRACE_BUFFER','String').SetString( 'TRACE_BUFFER
11805: 'TRACE_MUTEX','String').SetString( 'TRACE_MUTEX
11806: //PTraceEntry', '^TTraceEntry // will not work
11807: SIRegister_TIPCTracer(CL);
11808: 'MAX_CLIENTS','LongInt').SetInt( 6);
11809: 'IPCTIMEOUT','LongInt').SetInt( 2000);
11810: 'IPCBUFFER_NAME','String').SetString( 'BUFFER_NAME
11811: 'BUFFER_MUTEX_NAME','String').SetString( 'BUFFER_MUTEX
11812: 'MONITOR_EVENT_NAME','String').SetString( 'MONITOR_EVENT
11813: 'CLIENT_EVENT_NAME','String').SetString( 'CLIENT_EVENT
11814: 'CONNECT_EVENT_NAME','String').SetString( 'CONNECT_EVENT
11815: 'CLIENT_DIR_NAME','String').SetString( 'CLIENT_DIRECTORY
11816: 'CLIENT_DIR_MUTEX','String').SetString( 'DIRECTORY_MUTEX
11817: FindClass('TOBJECT'),'EMonitorActive
11818: FindClass('TOBJECT'),'TIPCThread
11819: TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11820: + 'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11821: + 'ach, evClientSwitch, evClientSignal, evClientExit )
11822: TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11823: TClientFlags', 'set of TClientFlag
11824: //PEventData', '^TEventData // will not work
11825: TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11826: + 'lag; Flags : TClientFlags; end
11827: TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11828: TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11829: TIPCTNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11830: //PIPEventInfo', '^TIPCEventInfo // will not work
11831: TIPCEventInfo', 'record FID:Integer;FKind:TEventKind;FData:TEventData;end
11832: SIRegister_TIPCEvent(CL);
11833: //PClientDirRecords', '^TClientDirRecords // will not work
11834: SIRegister_TClientDirectory(CL);
11835: TIPCState', '( stInActive, stDisconnected, stConnected )
11836: SIRegister_TIPCThread(CL);
11837: SIRegister_TIPCMonitor(CL);
11838: SIRegister_TIPCClient(CL);
11839: Function IsMonitorRunning( var Hndl : THandle) : Boolean
11840: end;
11841:
11842: (*-----*)
11843: procedure SIRegister_ALGSMComm(CL: TPSPascalCompiler);
11844: begin
11845:   SIRegister_TALGSMComm(CL);
11846:   Function ALGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString) : AnsiString
11847:   Procedure ALGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
aMessage:AnsiString);
11848:   Function ALGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString) : AnsiString
11849:   Function ALGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
UseGreekAlphabet:Bool):Widestring;
11850:   function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11851:   end;
11852:
11853: procedure SIRegister_ALHttpCommon(CL: TPSPascalCompiler);
11854: begin
11855:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11856:   TALHTTPProtocolVersion', '( HTTPPv_1_0, HTTPPv_1_1 )
11857:   TALHTTPMethod', '(HTTPmt_Get,HTTPmt_Post,HTTPmt_Head,HTTPmt_Trace,HTTPmt_Put,HTTPmt_Delete);
11858:   TInternetScheme', 'integer
11859:   TALIPv6Binary', 'array[1..16] of Char;
11860:   // TALIPv6Binary = array[1..16] of ansiChar;
11861:   // TInternetScheme = Integer;
11862:   SIRegister_TALHTTPRequestHeader(CL);
11863:   SIRegister_TALHTTPCookie(CL);
11864:   SIRegister_TALHTTPCookieCollection(CL);
11865:   SIRegister_TALHTTPResponseHeader(CL);
11866:   Function ALHTTPDecode( const AStr : AnsiString) : AnsiString
11867:   Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings)
11868:   // Procedure ALExtractHTTPFields(Separators, WhiteSpace, Quotes:TSysCharSet;
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11869:   // Procedure ALExtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11870:   // Procedure ALExtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11871:   Function ALRemoveShemeFromUrl( aUrl : AnsiString) : ansiString
11872:   Function ALExtractShemeFromUrl( aUrl : AnsiString) : TInternetScheme
11873:   Function ALExtractHostNameFromUrl( aUrl : AnsiString) : AnsiString
11874:   Function ALExtractDomainNameFromUrl( aUrl : AnsiString) : AnsiString
11875:   Function ALExtractUrlPathFromUrl( aUrl : AnsiString) : AnsiString
11876:   Function ALInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
ExtraInfo : AnsiString; var PortNumber : integer) : Boolean;
11877:   Function ALInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
Anchor : AnsiString; Query : TALStrings; var PortNumber : integer) : Boolean;
11878:   Function ALInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11879:   Function ALRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString) : AnsiString;
11880:   Function ALRemoveAnchorFromUrl1( aUrl : AnsiString) : AnsiString;
11881:   Function ALCombineUrl( RelativeUrl, BaseUrl : AnsiString) : AnsiString;
11882:   Function ALCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
11883:   Function ALGmtDateToRfc822Str( const aValue : TDateTime) : AnsiString
11884:   Function ALDateTimeToRfc822Str( const aValue : TDateTime) : AnsiString

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11885: Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
11886: Function ALRfc822StrToGMTDateTime( const s : AnsiString ) : TDateTime
11887: Function ALTryIPv4StrToNumeric( aIPv4Str : ansiString; var aIPv4Num : Cardinal ) : Boolean
11888: Function ALIPv4StrToNumeric( aIPv4 : ansiString ) : Cardinal
11889: Function ALNumericToIPv4Str( aIPv4 : Cardinal ) : ansiString
11890: Function ALZeroIPv6 : TALIPv6Binary
11891: Function ALTryIPv6StrToBinary( aIPv6Str : ansiString; var aIPv6Bin : TALIPv6Binary ) : Boolean
11892: Function ALIPv6StrToBinary( aIPv6 : ansiString ) : TALIPv6Binary
11893: Function ALBinaryToIPv6Str( aIPv6 : TALIPv6Binary ) : ansiString
11894: Function ALBinaryStrToIPv6Binary( aIPv6BinaryStr : ansiString ) : TALIPv6Binary
11895: end;
11896:
11897: procedure SIRegister_ALFcnHTML(CL: TPSPascalCompiler);
11898: begin
11899:   Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiString;LstExtractedResourceText:TALStrings;const
DecodeHTMLText:Boolean);
11900:   Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11901:   Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
11902:   Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean ) : AnsiString
11903:   Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
11904:   Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIHtmlEntities:Bool;const
useNumRef:bool):AnsiString);
11905:   Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
11906:   Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean ) : AnsiString
11907:   Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
11908:   Procedure ALHideHtmlUnwantedTagForHTMLHandleTagFunc(var HtmlContent:AnsiString; const
DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
11909:   Procedure ALCompactHtmlTagParams( TagParams : TALStrings)
11910: end;
11911:
11912: procedure SIRegister_ALInternetMessageCommon(CL: TPSPascalCompiler);
11913: begin
11914:   SIRegister_TALEmailHeader(CL);
11915:   SIRegister_TALNewsArticleHeader(CL);
11916:   Function ALParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
decodeRealName:Bool):AnsiString;
11917:   Function ALExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
11918:   Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
11919:   Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
11920:   Function ALGenerateInternetMessageID : AnsiString;
11921:   Function ALGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
11922:   Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
11923:   Function ALDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
11924: end;
11925:
11926: (*-----*)
11927: procedure SIRegister_ALFcnWinSock(CL: TPSPascalCompiler);
11928: begin
11929:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11930:   Function ALIPAddrToName( IPAddr : AnsiString ) : AnsiString
11931:   Function ALGetLocalIPs : TALStrings
11932:   Function ALGetLocalHostName : AnsiString
11933: end;
11934:
11935: procedure SIRegister_ALFcnCGI(CL: TPSPascalCompiler);
11936: begin
11937:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
TALWebRequest;ServerVariables:TALStrings);
11938:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables :
TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11939:   Procedure ALCGIInitDefaultServerVariables( ServerVariables : TALStrings);
11940:   Procedure ALCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
ScriptFileName:AnsiString;Url:AnsiString);
11941:   Procedure ALCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11942:   Procedure ALCGIExec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
: Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
11943:   Procedure ALCGIExec1(ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
WebRequest : TALIsapiRequest;
overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;'
+ 'overloadedRequestContentStream:Tstream;var
ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
11944:   Procedure ALCGIExec2(ScriptName,ScriptFileName,Url,X_REWRITE_URL,
InterpreterFilename:AnsiString;WebRequest: TALIsapiRequest; var ResponseContentString : AnsiString;
ResponseHeader : TALHTTPResponseHeader);
11945: end;
11946:
11947:
11948: procedure SIRegister_ALFcnExecute(CL: TPSPascalCompiler);
11949: begin
11950:   TStartupInfoA', 'TStartupInfo
11951:   'SE_CREATE_TOKEN_NAME', 'String').SetString( 'SeCreateTokenPrivilege
11952:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String').SetString( 'SeAssignPrimaryTokenPrivilege
11953:   SE_LOCK_MEMORY_NAME', 'String').SetString( 'SeLockMemoryPrivilege
11954:   SE_INCREASE_QUOTA_NAME', 'String').SetString( 'SeIncreaseQuotaPrivilege
11955:   SE_UNSOLICITED_INPUT_NAME', 'String').SetString( 'SeUnsolicitedInputPrivilege
11956:   SE_MACHINE_ACCOUNT_NAME', 'String').SetString( 'SeMachineAccountPrivilege
11957:   SE_TCB_NAME', 'String').SetString( 'SeTcbPrivilege
11958:   SE_SECURITY_NAME', 'String').SetString( 'SeSecurityPrivilege
11959:   SE_TAKE_OWNERSHIP_NAME', 'String').SetString( 'SeTakeOwnershipPrivilege

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11960: SE_LOAD_DRIVER_NAME', 'String').SetString( 'SeLoadDriverPrivilege
11961: SE_SYSTEM_PROFILE_NAME', 'String').SetString( 'SeSystemProfilePrivilege
11962: SE_SYSTEMTIME_NAME', 'String').SetString( 'SeSystemtimePrivilege
11963: SE_PROF_SINGLE_PROCESS_NAME', 'String').SetString( 'SeProfileSingleProcessPrivilege
11964: SE_INC_BASE_PRIORITY_NAME', 'String').SetString( 'SeIncreaseBasePriorityPrivilege
11965: SE_CREATE_PAGEFILE_NAME', 'String').SetString( 'SeCreatePagefilePrivilege
11966: SE_CREATE_PERMANENT_NAME', 'String').SetString( 'SeCreatePermanentPrivilege
11967: SE_BACKUP_NAME', 'String').SetString( 'SeBackupPrivilege
11968: SE_RESTORE_NAME', 'String').SetString( 'SeRestorePrivilege
11969: SE_SHUTDOWN_NAME', 'String').SetString( 'SeShutdownPrivilege
11970: SE_DEBUG_NAME', 'String').SetString( 'SeDebugPrivilege
11971: SE_AUDIT_NAME', 'String').SetString( 'SeAuditPrivilege
11972: SE_SYSTEM_ENVIRONMENT_NAME', 'String').SetString( 'SeSystemEnvironmentPrivilege
11973: SE_CHANGE_NOTIFY_NAME', 'String').SetString( 'SeChangeNotifyPrivilege
11974: SE_REMOTE_SHUTDOWN_NAME', 'String').SetString( 'SeRemoteShutdownPrivilege
11975: SE_UNDOCK_NAME', 'String').SetString( 'SeUndockPrivilege
11976: SE_SYNC_AGENT_NAME', 'String').SetString( 'SeSyncAgentPrivilege
11977: SE_ENABLE_DELEGATION_NAME', 'String').SetString( 'SeEnableDelegationPrivilege
11978: SE_MANAGE_VOLUME_NAME', 'String').SetString( 'SeManageVolumePrivilege
11979: Function ALGetEnvironmentString : AnsiString
11980: Function ALWinExec32(const FileName:CurrentDir,
Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
11981: Function ALWinExec32l(const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
11982: Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer ) : DWORD
11983: Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer ) : DWORD
11984: Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean ) : Boolean
11985: end;
11986:
11987: procedure SIRegister_ALFcnFile(CL: TPSPascalCompiler);
11988: begin
11989:   Function ALEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime):Boolean;
11990:   Function ALEmptyDirectoryl( Directory : ansiString; SubDirectory : Boolean; const
RemoveEmptySubDirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime ) : Boolean;
11991:   Function ALCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
FileNameMask : ansiString; const FailIfExists : Boolean ) : Boolean
11992:   Function ALGetModuleName : ansistring
11993:   Function ALGetModuleFileNameWithoutExtension : ansistring
11994:   Function ALGetModulePath : ansiString
11995:   Function ALGetFileSize( const AFileName : ansistring ) : int64
11996:   Function ALGetFileVersion( const AFileName : ansistring ) : ansiString
11997:   Function ALGetFileCreationDateTime( const aFileName : AnsiString ) : TdateTime
11998:   Function ALGetFileLastWriteDateTime( const aFileName : AnsiString ) : TdateTime
11999:   Function ALGetFileLastAccessDateTime( const aFileName : AnsiString ) : TdateTime
12000:   Procedure ALSetFileCreationDateTime( const aFileName : AnsiString; const aCreationDateTime : TdateTime)
12001:   Function ALIsDirectoryEmpty( const directory : ansiString ) : boolean
12002:   Function ALFileExists( const Path : ansiString ) : boolean
12003:   Function ALDirectoryExists( const Directory : AnsiString ) : Boolean
12004:   Function ALCreateDir( const Dir : AnsiString ) : Boolean
12005:   Function ALRemoveDir( const Dir : AnsiString ) : Boolean
12006:   Function ALDeleteFile( const FileName : AnsiString ) : Boolean
12007:   Function ALRenameFile( const OldName, NewName : ansistring ) : Boolean
12008: end;
12009:
12010: procedure SIRegister_ALFcnMime(CL: TPSPascalCompiler);
12011: begin
12012:   NativeInt', 'Integer
12013:   NativeUInt', 'Cardinal
12014:   Function ALMimeBase64EncodeString( const S : AnsiString ) : AnsiString
12015:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString ) : AnsiString
12016:   Function ALMimeBase64DecodeString( const S : AnsiString ) : AnsiString
12017:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt ) : NativeInt
12018:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt ) : NativeInt
12019:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt ) : NativeInt
12020:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12021:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12022:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12023:   Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt;
12024:   Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt;
+ 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : NativeInt;
12026:   Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal ) : NativeInt;
12027:   Procedure ALMimeBase64Encode(const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
OutputBuf:TByteDynArray);
12028:   Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12029:   Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12030:   Function ALMimeBase64Decode1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray):NativeInt;
12031:   Function ALMimeBase64DecodePartial1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : NativeInt;
12032:   Function ALMimeBase64DecodePartialEnd1(out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
ByteBufferSpace:Cardinal):NativeInt;

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12033: Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName)
12034: Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName)
12035: Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName)
12036: Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream)
12037: Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream)
12038: Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream)
12039: 'cALMimeBase64_ENCODED_LINE_BREAK', 'LongInt').SetInt( 76);
12040: 'cALMimeBase64_DECODED_LINE_BREAK', 'LongInt').SetInt( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3);
12041: 'cALMimeBase64_BUFFER_SIZE', 'LongInt').SetInt( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4);
12042: Procedure ALFillMimeContentTypeByExtList( AMIMEList : TALStrings)
12043: Procedure ALFillExtByMimeContentTypeList( AMIMEList : TALStrings)
12044: Function ALGetDefaultFileExtFromMimeContentType( aContentType : AnsiString) : AnsiString
12045: Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString) : AnsiString
12046: end;
12047:
12048: procedure SIRegister_ALXmlDoc(CL: TPSPascalCompiler);
12049: begin
12050: 'cALXMLNodeMaxListSize', 'LongInt').SetInt( Maxint div 16);
12051: FindClass('TOBJECT'), 'TALXMLNode
12052: FindClass('TOBJECT'), 'TALXMLNodeList
12053: FindClass('TOBJECT'), 'TALXMLDocument
12054: TALXMLParseProcessingInstructionEvent', 'Procedure (Sender:TObject; const Target,Data:AnsiString)
12055: TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str: AnsiString)
12056: TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co
12057: + 'ntName : AnsiString; const Attributes : TALStrings)
12058: TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString)
12059: TALXmXmlNodeType', '( ntReserved, ntElement, ntAttribute, ntText, '
12060: + 'ntCDATA, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12061: + 'ntDocType, ntDocFragment, ntNotation )
12062: TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12063: TALXMLDocOptions', 'set of TALXMLDocOption
12064: TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12065: TALXMLParseOptions', 'set of TALXMLParseOption
12066: TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12067: PALPointerXMLNodeList', '^TALPointerXMLNodeList // will not work
12068: SIRegister_EALXMLDocError(CL);
12069: SIRegister_TALXMLNodeList(CL);
12070: SIRegister_TALXMLNode(CL);
12071: SIRegister_TALXmXmlElementNode(CL);
12072: SIRegister_TALXmXmlAttributeNode(CL);
12073: SIRegister_TALXmTextNode(CL);
12074: SIRegister_TALXmDocumentNode(CL);
12075: SIRegister_TALXmCommentNode(CL);
12076: SIRegister_TALXmProcessingInstrNode(CL);
12077: SIRegister_TALXmCDATADataNode(CL);
12078: SIRegister_TALXmEntityRefNode(CL);
12079: SIRegister_TALXmEntityNode(CL);
12080: SIRegister_TALXmDocTypeNode(CL);
12081: SIRegister_TALXmDocFragmentNode(CL);
12082: SIRegister_TALXmNotationNode(CL);
12083: SIRegister_TALXMLDocument(CL);
12084: cALXMLUTF8EncodingStr, 'String').SetString( 'UTF-8
12085: cALXMLUTF8HeaderStr, 'String').SetString('<?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>'+#13#10);
12086: CALNSDelim, 'String').SetString( '
12087: CALXML, 'String').SetString( 'xml
12088: CALVersion, 'String').SetString( 'version
12089: CALEncoding, 'String').SetString( 'encoding
12090: CALStandalone, 'String').SetString( 'standalone
12091: CALDefaultNodeIndent, 'String').SetString( '
12092: CALXmlDocument, 'String').SetString( 'DOCUMENT
12093: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString) : TalXMLDocument
12094: Procedure ALClearXMLDocument(const rootname:AnsiString;xmldoc:TalXMLDocument;const
EncodingStr:AnsiString);
12095: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildNodeName,
ChildNodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12096: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
ChildNodeName, ChildNodeValue : AnsiString; const Recurse: Boolean) : TalxmlNode
12097: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
Recurse: Boolean):TalxmlNode
12098: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
AttributeName, AttributeValue : AnsiString; const Recurse: Boolean) : TalxmlNode
12099: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString) :
AnsiString
12100: end;
12101:
12102: procedure SIRegister_TeCanvas(CL: TPSPascalCompiler);
12103: //based on TEEProc, TeCanvas, TEEngine, TChart
12104: begin
12105: 'TeePiStep', 'Double').setExtended( Pi / 180.0);
12106: 'TeeDefaultPerspective', 'LongInt').SetInt( 100);
12107: 'TeeMinAngle', 'LongInt').SetInt( 270);
12108: 'teeclMoneyGreen', 'LongWord').SetUInt( TColor ( $C0DCC0 ));
12109: 'teeclSkyBlue', 'LongWord').SetUInt( TColor ( $F0CAA6 ));
12110: 'teeclCream', 'LongWord').SetUInt( TColor ( $F0FBFF ));
12111: 'teeclMedGray', 'LongWord').SetUInt( TColor ( $A4A0A0 ));
12112: 'teeclMoneyGreen', 'LongWord').SetUInt( TColor ( $C0DCC0 ));
12113: 'teeclSkyBlue', 'LongWord').SetUInt( TColor ( $F0CAA6 ));
12114: 'teeclCream', 'LongWord').SetUInt( TColor ( $F0FBFF ));
12115: 'teeclMedGray', 'LongWord').SetUInt( TColor ( $A4A0A0 ));

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12116: 'TA_LEFT','LongInt').SetInt( 0);
12117: 'TA_RIGHT','LongInt').SetInt( 2);
12118: 'TA_CENTER','LongInt').SetInt( 6);
12119: 'TA_TOP','LongInt').SetInt( 0);
12120: 'TA_BOTTOM','LongInt').SetInt( 8);
12121: 'teePATCOPY','LongInt').SetInt( 0);
12122: 'NumCirclePoints','LongInt').SetInt( 64);
12123: 'teeDEFAULT_CHARSET','LongInt').SetInt( 1);
12124: 'teeANTIALIASED_QUALITY','LongInt').SetInt( 4);
12125: 'TA_LEFT','LongInt').SetInt( 0);
12126: 'bs_Solid','LongInt').SetInt( 0);
12127: 'teepf24Bit','LongInt').SetInt( 0);
12128: 'teepfDevice','LongInt').SetInt( 1);
12129: 'CM_MOUSELEAVE','LongInt').SetInt( 10000);
12130: 'CM_SYSCOLORCHANGE','LongInt').SetInt( 10001);
12131: 'DC_BRUSH','LongInt').SetInt( 18);
12132: 'DC_PEN','LongInt').SetInt( 19);
12133: teeCOLORREF, 'LongWord
12134: TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12135: //TNotifyEvent', 'Procedure ( Sender : TObject)
12136: SIRegister_TFilterRegion(CL);
12137: SIRegister_IFormCreator(CL);
12138: SIRegister_TTeeFilter(CL);
12139: //TFilterClass', 'class of TTeeFilter
12140: SIRegister_TFilterItems(CL);
12141: SIRegister_TConvolveFilter(CL);
12142: SIRegister_TBlurFilter(CL);
12143: SIRegister_TTeePicture(CL);
12144: TPenEndStyle, '( esRound, esSquare, esFlat )
12145: SIRegister_TChartPen(CL);
12146: SIRegister_TChartHiddenPen(CL);
12147: SIRegister_TDottedGrayPen(CL);
12148: SIRegister_TDarkGrayPen(CL);
12149: SIRegister_TWhitePen(CL);
12150: SIRegister_TChartBrush(CL);
12151: TTeeView3DScrolled', 'Procedure ( IsHoriz : Boolean)
12152: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12153: SIRegister_TVview3DOptions(CL);
12154: FindClass('TOBJECT'),'TTeeCanvas
12155: TTeeTransparency', 'Integer
12156: SIRegister_TTeeBlend(CL);
12157: FindClass('TOBJECT'),'TCanvas3D
12158: SIRegister_TTeeShadow(CL);
12159: teeTGradientDirection', '( gdTopBottom, gdBottomTop, gdLeftRight, g'
12160: + 'dRightLeft, gdFromCenter, gdFromTopLeft, gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown )
12161: FindClass('TOBJECT'),'TSubGradient
12162: SIRegister_TCustomTeeGradient(CL);
12163: SIRegister_TSubGradient(CL);
12164: SIRegister_TTeeGradient(CL);
12165: SIRegister_TTeeFontGradient(CL);
12166: SIRegister_TTeeFont(CL);
12167: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12168: TCanvasTextAlign', 'Integer
12169: TTeeCanvasHandle', 'HDC
12170: SIRegister_TTeeCanvas(CL);
12171: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12172: SIRegister_TFloatXYZ(CL);
12173: TPoint3D', 'record x : integer; y : integer; z : Integer; end
12174: TRGB', 'record blue: byte; green: byte; red: byte; end
12175: {TRGB=packed record
12176:   Blue : Byte;
12177:   Green : Byte;
12178:   Red : Byte;
12179:   //$IFDEF CLX //Alpha : Byte; // Linux end;}
12180:
12181: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 : '
12182: + 'TPoint3D; var Color0, Color1 : TColor) : Boolean
12183: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12184: TCanvas3DPlane', '( cpX, cpY, cpZ )
12185: //IInterface', 'IUnknown
12186: SIRegister_TCanvas3D(CL);
12187: SIRegister_TTeeCanvas3D(CL);
12188: TTrianglePoints', 'Array[0..2] of TPoint;
12189: TFourPoints', 'Array[0..3] of TPoint;
12190: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12191: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12192: Function Point3D( const x, y, z : Integer) : TPoint3D
12193: Procedure SwapDouble( var a, b : Double)
12194: Procedure SwapInteger( var a, b : Integer)
12195: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12196: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12197: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer) : TRect
12198: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12199: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12200: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12201: Procedure UnClipCanvas( ACanvas : TCanvas)
12202: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12203: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12204: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)

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12205: 'TeeCharForHeight','String').SetString( 'W
12206: 'DarkerColorQuantity','Byte').SetUInt( 128);
12207: 'DarkColorQuantity','Byte').SetUInt( 64);
12208: TButtonGetColorProc', 'Function' : TColor
12209: SIRegister_TTeeButton(CL);
12210: SIRegister_TButtonColor(CL);
12211: SIRegister_TComboFlat(CL);
12212: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTEECanvasHandle)
12213: Function TeePoint( const aX, aY : Integer) : TPoint
12214: Function TeePointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12215: Function PointInRect1( const Rect : TRect; x, y : Integer) : Boolean;
12216: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12217: Function OrientRectangle( const R : TRect) : TRect
12218: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12219: Function PolygonBounds( const P : array of TPoint) : TRect
12220: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12221: Function RGBValue( const Color : TColor) : TRGB
12222: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12223: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12224: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer) : TPoint
12225: Function TeeCull( const P : TFourPoints) : Boolean;
12226: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12227: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12228: Procedure SmoothStretch( Src, Dst : TBitmap);
12229: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12230: Function TeeDistance( const x, y : Double) : Double
12231: Function TeeLoadLibrary( const FileName : String) : HInst
12232: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12233: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12234: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap)
12235: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12236: SIRegister_ICanvasHyperlinks(CL);
12237: SIRegister_ICanvasToolTips(CL);
12238: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12239: end;
12240:
12241: procedure SIRegister_ovcmisc(CL: TPSPascalCompiler);
12242: begin
12243:   TOvcHdc', 'Integer
12244:   TOvcHWND', 'Cardinal
12245:   TOvcHdc', 'HDC
12246:   TOvcHWND', 'HWND
12247:   Function LoadBaseBitmap( lpBitmapName : PChar) : HBITMAP
12248:   Function LoadBaseCursor( lpCursorName : PChar) : HCURSOR
12249:   Function ovCompStruct( const S1, S2, Size : Cardinal) : Integer
12250:   Function DefaultEpoch : Integer
12251:   Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12252:   Procedure FixRealPrim( P : PChar; DC : Char)
12253:   Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer) : string
12254:   Function GetLeftButton : Byte
12255:   Function GetNextDlgItem( Ctrl : TOvcHwnd) : hWnd
12256:   Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte)
12257:   Function GetShiftFlags : Byte
12258:   Function ovCreateRotatedFont( F : TFont; Angle : Integer) : hFont
12259:   Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle; Height:Integer;Ctl3D:Boolean): Integer
12260:   Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet) : string
12261:   Function ovIsForegroundTask : Boolean
12262:   Function ovTrimLeft( const S : string) : string
12263:   Function ovTrimRight( const S : string) : string
12264:   Function ovQuotedStr( const S : string) : string
12265:   Function ovWordCount( const S : string; const WordDelims : TCharSet) : Integer
12266:   Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12267:   Function PtrDiff( const P1, P2 : PChar) : Word
12268:   Procedure PtrInc( var P, Delta : Word)
12269:   Procedure PtrDec( var P, Delta : Word)
12270:   Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer)
12271:   Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer)
12272:   Function ovMinI( X, Y : Integer) : Integer
12273:   Function ovMaxI( X, Y : Integer) : Integer
12274:   Function ovMinL( X, Y : LongInt) : LongInt
12275:   Function ovMaxL( X, Y : LongInt) : LongInt
12276:   Function GenerateComponentName( PF : TWInControl; const Root : string) : string
12277:   Function PartialCompare( const S1, S2 : string) : Boolean
12278:   Function PathEllipsis( const S : string; MaxWidth : Integer) : string
12279:   Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor) : TBitmap
12280:   Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas)
12281:   Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
TransparentColor : TColor)
12282:   Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
TransparentColor : TColorRef)
12283:   Function ovWidthOf( const R : TRect) : Integer
12284:   Function ovHeightOf( const R : TRect) : Integer
12285:   Procedure ovDebugOutput( const S : string)
12286:   Function GetArrowWidth( Width, Height : Integer) : Integer
12287:   Procedure StripCharSeq( CharSeq : string; var Str : string)
12288:   Procedure StripCharFromEnd( aChr : Char; var Str : string)
12289:   Procedure StripCharFromFront( aChr : Char; var Str : string)

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12290: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT) : BOOL
12291: Function SystemParametersInfoNCM(uiAction, uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12292: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT) : BOOL
12293: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer) : HRGN
12294: Function CreateEllipticRgnIndirect( const p1 : TRect) : HRGN
12295: Function CreateFontIndirect( const p1 : TLogFont) : HFONT
12296: Function CreateMetaFile( p1 : PChar) : HDC
12297: Function DescribePixelFormat(DC: HDC;p2:Integer;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12298: Function DrawText(hDC:HDC;lpString:PChar;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12299: Function DrawTextS(hDC:HDC;lpString:string;nCount:Integer; var lpRect:TRect;uFormat:UINT):Integer
12300: Function SetMapperFlags( DC : HDC; Flag : DWORD) : DWORD
12301: Function SetGraphicsMode( hdc : HDC; iMode : Integer) : Integer
12302: Function SetMapMode( DC : HDC; p2 : Integer) : Integer
12303: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar) : HMETAFILE
12304: //Function SetPaletteEntries(Palette:HPALETTE;StartIndex,NumEntries:UINT;var PaletteEntries):UINT
12305: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF) : COLORREF
12306: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF) : BOOL
12307: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor) : BOOL
12308: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer) : Integer
12309: Function StretchBlt(DestDC:HDC;X,Y,Width,Height:Integer;SrcDC:HDC;XSrc,YSrc,SrcWidth,
SrcHeight:Integer;Rop:DWORD):BOOL
12310: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer) : BOOL
12311: Function StretchDIBits(DC : HDC; DestX, DestY, DestWidth, DestHeight, SrcX, SrcY, SrcWidth,
SrcHeight:Integer;Bits:Integer; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : DWORD) : Integer
12312: Function SetROP2( DC : HDC; p2 : Integer) : Integer
12313: Function SetStretchBltMode( DC : HDC; StretchMode : Integer) : Integer
12314: Function SetSystemPaletteUse( DC : HDC; p2 : UINT) : UINT
12315: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer) : Integer
12316: Function SetTextColor( DC : HDC; Color : COLORREF) : COLORREF
12317: Function SetTextAlign( DC : HDC; Flags : UINT) : UINT
12318: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer) : Integer
12319: Function UpdateColors( DC : HDC) : BOOL
12320: Function GetViewportExtEx( DC : HDC; var Size : TSize) : BOOL
12321: Function GetViewportOrgEx( DC : HDC; var Point : TPoint) : BOOL
12322: Function GetWindowExtEx( DC : HDC; var Size : TSize) : BOOL
12323: Function GetWindowOrgEx( DC : HDC; var Point : TPoint) : BOOL
12324: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer) : Integer
12325: Function InvertRgn( DC : HDC; p2 : HRGN) : BOOL
12326: Function MaskBlt( DestDC : HDC; XDest, YDest, Width, Height : Integer; SrcDC : HDC; XSrc, YSrc : Integer;
Mask : HBITMAP; xMask, yMask : Integer; Rop : DWORD) : BOOL
12327: Function PlgBlt(DestDC:HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widht,Heigh:Integer;Mask:HBITMAP;xMask,
yMask:Integer):BOOL;
12328: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer) : Integer
12329: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer) : Integer
12330: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD) : BOOL
12331: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer) : BOOL
12332: Function PlayMetaFile( DC : HDC; MF : HMETAFILE) : BOOL
12333: Function PaintRgn( DC : HDC; RGN : HRGN) : BOOL
12334: Function PtInRegion( RGN : HRGN; X, Y : Integer) : BOOL
12335: Function PtVisible( DC : HDC; X, Y : Integer) : BOOL
12336: Function RectInRegion( RGN : HRGN; const Rect : TRect) : BOOL
12337: Function RectVisible( DC : HDC; const Rect : TRect) : BOOL
12338: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer) : BOOL
12339: Function RestoreDC( DC : HDC; SavedDC : Integer) : BOOL
12340: end;
12341:
12342: procedure SIRegister_ovcfile(CLI: TPSPascalCompiler);
12343: begin
12344:   SIRegister_TOvcAbstractStore(CLI);
12345:   //PEXPropInfo, '^TExPropInfo // will not work
12346:   // TExPropInfo, 'record PI : TPropInfo; AObject : TObject; end
12347:   SIRegister_TOvcPropertyList(CLI);
12348:   SIRegister_TOvcDataFile(CLI);
12349:   Procedure UpdateStoredList( AForm : TWInControl; AStoredList : TStrings; FromForm : Boolean)
12350:   Procedure UpdateStoredList1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean)
12351:   Function CreateStoredItem( const CompName, PropName : string) : string
12352:   Function ParseStoredItem( const Item : string; var CompName, PropName : string) : Boolean
12353:   //Function GetPropType( PropInfo : PEXPropInfo) : PTypeInfo
12354: end;
12355:
12356: procedure SIRegister_ovccoco(CLI: TPSPascalCompiler);
12357: begin
12358:   'ovsetsize', 'LongInt').SetInt( 16);
12359:   'etSyntax', 'LongInt').SetInt( 0);
12360:   'etSymantic', 'LongInt').SetInt( 1);
12361:   'chCR', 'Char').SetString( #13);
12362:   'chLF', 'Char').SetString( #10);
12363:   'chLineSeparator', '').SetString( chCR);
12364:   SIRegister_TCocoError(CLI);
12365:   SIRegister_TCommentItem(CLI);
12366:   SIRegister_TCommentList(CLI);
12367:   SIRegister_TSymbolPosition(CLI);
12368:   TGenListType', '( glNever, glAlways, glOnError )
12369:   TovBitSet', 'set of Integer
12370:   //PStartTable, '^TStartTable // will not work
12371:   'TovCharSet', 'set of AnsiChar
12372:   TAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12373:   TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList)
12374:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string

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12375: TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12376: TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP'
12377:   +'osition; const Data : string; ErrorType : integer)
12378: TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12379: TGetCH', 'Function ( pos : longint) : char
12380: TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12381:   SIRegister_TCocoRScanner(CL);
12382:   SIRegister_TCocoRGrammar(CL);
12383:   '_EF','Char').SetString( #0);
12384:   '_TAB','Char').SetString( #09);
12385:   '_CR','Char').SetString( #13);
12386:   '_LF','Char').SetString( #10);
12387:   '_EL','').SetString( _CR);
12388:   '_EOF','Char').SetString( #26);
12389:   'LineEnds','TCharSet').SetInt(ord(_CR) or ord(_LF) or ord(_EF));
12390:   'minErrDist','LongInt').SetInt( 2);
12391:   Function ovPadL( S : string; ch : char; L : integer) : string
12392: end;
12393:
12394:   TFormatSettings = record
12395:     CurrencyFormat: Byte;
12396:     NegCurrFormat: Byte;
12397:     ThousandSeparator: Char;
12398:     DecimalSeparator: Char;
12399:     CurrencyDecimals: Byte;
12400:     DateSeparator: Char;
12401:     TimeSeparator: Char;
12402:     ListSeparator: Char;
12403:     CurrencyString: string;
12404:     ShortDateFormat: string;
12405:     LongDateFormat: string;
12406:     TimeAMString: string;
12407:     TimePMString: string;
12408:     ShortTimeFormat: string;
12409:     LongTimeFormat: string;
12410:     ShortMonthNames: array[1..12] of string;
12411:     LongMonthNames: array[1..12] of string;
12412:     ShortDayNames: array[1..7] of string;
12413:     LongDayNames: array[1..7] of string;
12414:     TwoDigitYearCenturyWindow: Word;
12415:   end;
12416:
12417: procedure SIRegister_OvcFormatSettings(CL: TPSPascalCompiler);
12418: begin
12419:   Function ovFormatSettings : TFormatSettings
12420: end;
12421:
12422: procedure SIRegister_ovcstr(CL: TPSPascalCompiler);
12423: begin
12424:   TOvcCharSet', 'set of Char
12425:   ovBTable', 'array[0..255] of Byte
12426:   //BTable = array[0..{$IFDEF UNICODE}{$IFDEF
HUGE_UNICODE_BMTABLE}$FFFF{$ELSE}$FF{$ENDIF}{$ELSE}$FF{$ENDIF}] of Byte;
12427:   Function BinaryBPChar( Dest : PChar; B : Byte) : PChar
12428:   Function BinaryLPChar( Dest : PChar; L : LongInt) : PChar
12429:   Function BinaryWPChar( Dest : PChar; W : Word) : PChar
12430:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable)
12431:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;
12432:   Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12433:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal) : PChar
12434:   Function DetabPChar( Dest : PChar; Src : PChar; TabSize : Byte) : PChar
12435:   Function HexBPChar( Dest : PChar; B : Byte) : PChar
12436:   Function HexLPChar( Dest : PChar; L : LongInt) : PChar
12437:   Function HexPtrPChar( Dest : PChar; P : TObject) : PChar
12438:   Function HexWPChar( Dest : PChar; W : Word) : PChar
12439:   Function LoCaseChar( C : Char) : Char
12440:   Function OctalLPChar( Dest : PChar; L : LongInt) : PChar
12441:   Function StrChDeletePrim( P : PChar; Pos : Cardinal) : PChar
12442:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal) : PChar
12443:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal) : Boolean
12444:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word)
12445:   Function StrStCopy( Dest, S : PChar; Pos, Count : Cardinal) : PChar
12446:   Function StrStDeletePrim( P : PChar; Pos, Count : Cardinal) : PChar
12447:   Function StrStInsert( Dest, S1, S2 : PChar; Pos : Cardinal) : PChar
12448:   Function StrStInsertPrim( Dest, S : PChar; Pos : Cardinal) : PChar
12449:   Function StrStPos( P, S : PChar; var Pos : Cardinal) : Boolean
12450:   Function StrToLongPChar( S : PChar; var I : LongInt) : Boolean
12451:   Procedure TrimAllSpacesPChar( P : PChar)
12452:   Function TrimEmbeddedZeros( const S : string) : string
12453:   Procedure TrimEmbeddedZerosPChar( P : PChar)
12454:   Function TrimTrailPrimPChar( S : PChar) : PChar
12455:   Function TrimTrailPChar( Dest, S : PChar) : PChar
12456:   Function TrimTrailingZeros( const S : string) : string
12457:   Procedure TrimTrailingZerosPChar( P : PChar)
12458:   Function UpCaseChar( C : Char) : Char
12459:   Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet) : Boolean
12460:   Function ovc32StringIsCurrentCodePage( const S : WideString) : Boolean;
12461:   //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal) : Boolean;
12462: end;

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12463:
12464: procedure SIRegister_AfUtils(CL: TPSPascalCompiler);
12465: begin
12466:   //PRaiseFrame', '^TRaiseFrame // will not work
12467:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12468:   + 'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12469:   Procedure SafeCloseHandle( var Handle : THandle)
12470:   Procedure ExchangeInteger( X1, X2 : Integer)
12471:   Procedure FillInteger( const Buffer, Size, Value : Integer)
12472:   Function LongMulDiv( Mult1, Mult2, Div1 : Longint ) : Longint
12473:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12474:
12475: FILENAME_ADVAPI32 = 'ADVAPI32.DLL';
12476:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12477:   function AbortSystemShutdown(lpMachineName: PKOLChar): BOOL; stdcall;
12478:   function AccessCheckAndAuditAlarm(SubsystemName: PKOLChar;
12479:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLChar;
12480:   SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12481:   const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12482:   var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12483:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLChar;
12484:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLChar;
12485:   SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12486:   AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12487:   ObjectTypeInfoLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12488:   var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12489:   function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLChar;
12490:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLChar;
12491:   SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12492:   AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12493:   ObjectTypeInfoLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12494:   var GrantedAccess: DWORD; var AccessStatusList: DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12495:   function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLChar): BOOL; stdcall;
12496:   function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLChar): BOOL; stdcall;
12497:   function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLChar;
12498:   lpCommandLine: PKOLChar; lpProcessAttributes: PSecurityAttributes;
12499:   lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12500:   dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLChar;
12501:   const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12502:   function GetCurrentHwProfile(var lpHwProfileInfo: THWProfileInfo): BOOL; stdcall;
12503:   function GetFileSecurity(lpFileName: PKOLChar; RequestedInformation: SECURITY_INFORMATION;
12504:   pSecurityDescriptor: PSecurityDescriptor; nLength: DWORD; var lpnLengthNeeded: DWORD): BOOL; stdcall;
12505:   function GetUserName(lpBuffer: PKOLChar; var nSize: DWORD): BOOL; stdcall;
12506:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLChar;
12507:   dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12508:   function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLChar;
12509:   dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12510:   function LookupAccountName(lpSystemName, lpAccountName: PKOLChar;
12511:   Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLChar;
12512:   var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12513:   function LookupAccountSid(lpSystemName: PKOLChar; Sid: PSID;
12514:   Name: PKOLChar; var cbName: DWORD; ReferencedDomainName: PKOLChar;
12515:   var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12516:   function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLChar;
12517:   lpDisplayName: PKOLChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12518:   function LookupPrivilegeName(lpSystemName: PKOLChar;
12519:   var lpLuid: TLargeInteger; lpName: PKOLChar; var cbName: DWORD): BOOL; stdcall;
12520:   function LookupPrivilegeValue(lpSystemName, lpName: PKOLChar;
12521:   var lpLuid: TLargeInteger): BOOL; stdcall;
12522:   function ObjectCloseAuditAlarm(SubsystemName: PKOLChar;
12523:   HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12524:   function ObjectDeleteAuditAlarm(SubsystemName: PKOLChar;
12525:   HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12526:   function ObjectOpenAuditAlarm(SubsystemName: PKOLChar; HandleId: Pointer;
12527:   ObjectTypeName: PKOLChar; ObjectName: PKOLChar; pSecurityDescriptor: PSecurityDescriptor;
12528:   ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12529:   var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12530:   var GenerateOnClose: BOOL): BOOL; stdcall;
12531:   function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLChar;
12532:   HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12533:   var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12534:   function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12535:   function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12536:   function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLChar;
12537:   ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12538:   function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12539:   lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12540:   var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD): BOOL; stdcall;
12541:   function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12542:   var phkResult: HKEY): Longint; stdcall;
12543:   function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12544:   var phkResult: HKEY): Longint; stdcall;
12545:   function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12546:   Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12547:   lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12548:   lpdwDisposition: PDWORD): Longint; stdcall;
12549:   function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12550:   function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12551:   function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
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12552:     var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12553:     lpcbClass: PDWORD; lpftLastWriteTime: PFileTime): Longint; stdcall;
12554: function RegEnumKey(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar; cbName: DWORD): Longint; stdcall;
12555: function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12556:     var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12557:     lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12558: function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12559: function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12560: function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12561:     ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12562: function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12563:     lpcbClass: PDWORD; lpReserved: Pointer;
12564:     lpSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpValues,
12565:     lpcbMaxValueNameLen, lpcbMaxValueLen, lpcbSecurityDescriptor: PDWORD;
12566:     lpftLastWriteTime: PFileTime): Longint; stdcall;
12567: function RegQueryMultipleValues(hKey: HKEY; var Vallist;
12568:     NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotSize: DWORD): Longint; stdcall;
12569: function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12570:     lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12571: function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12572:     lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12573: function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12574:     lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12575: function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12576: function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12577:     lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12578: function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12579:     dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12580: function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12581:     Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12582: function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12583: function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12584: function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12585:     dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12586:     dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12587: function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12588:     pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12589:
12590: Function wAddAtom( lpString : PKOLChar ) : ATOM
12591: Function wBeginUpdateResource( pFileName : PKOLChar; bDeleteExistingResources : BOOL ) : THandle
12592: //Function wCallNamedPipe( lpNamedPipeName : PKOLChar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12593: //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig ) : BOOL
12594: Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
12595:     lpString2 : PKOLChar; cchCount2 : Integer ) : Integer
12596: Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL ) : BOOL
12597: //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12598:     TFNProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD ) : BOOL
12599: Function wCreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12600: Function wCreateDirectoryEx( lpTemplateDirectory,
12601:     lpNewDirectory: PKOLChar; lpSecAttrib: PSecurityAttribs ): BOOL;
12602: Function wCreateEvent( lpEventAttribs: PSecurityAttrib; bManualReset,
12603:     bInitialState: BOOL; lpName: PKOLChar ): THandle;
12604: Function wCreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
12605:     PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes: DWORD; hTemplateFile: THandle ): THandle
12606: Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; flProtect,
12607:     dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar ) : THandle
12608: Function wCreateHardLink( lpFileName,
12609:     lpExistingFileName: PKOLChar; lpSecurityAttributes: PSecurityAttributes ): BOOL
12610: Function
12611:     CreateMailslot( lpName: PKOLChar; MaxMessSize: DWORD; lReadTimeout: DWORD; lpSecurityAttrib: PSecurityAttributes ): THandle;
12612: Function wCreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
12613:     nInBufferSize, nDefaultTimeout : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12614: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes,
12615:     lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
12616:     Pointer; lpCurrentDirectory: PKOLChar; const lpStartupInfo: TStartupInfo; var
12617:     lpProcessInfo: TProcessInfo ): BOOL
12618: Function wCreateSemaphore( lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
12619:     Longint; lpName : PKOLChar ) : THandle
12620: Function
12621:     wCreateWaitableTimer( lpTimerAttributes: PSecurityAttribs; bManualReset: BOOL; lpTimerName: PKOLChar ): THandle;
12622: Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar ) : BOOL
12623: Function wDeleteFile( lpFileName : PKOLChar ) : BOOL
12624: Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12625: //Function
12626:     wEnumCalendarInfo( lpCalInfEnumProc: TFNCalInfEnumProc; Locale: LCID; Calendar: CALID; CalType: CALTYPE ): BOOL;
12627: //Function wEnumDateFormats( lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD ) : BOOL
12628: // Function wEnumResourceLanguages( hModule: HMODULE; lpType,
12629:     lpName: PChar; lpEnumFunc: ENUMRESLANGPROC; lParam: Longint: BOOL' )
12630: //Function
12631:     wEnumResourceNames( hModule: HMODULE; lpType: PKOLChar; lpEnumFunc: ENUMRESNAMEPROC; lParam: Longint ): BOOL;
12632: //Function wEnumResourceTypes( hModule: HMODULE; lpEnumFunc: ENUMRESTYPEPROC; lParam: Longint ): BOOL;
12633: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCodepageEnumProc; dwFlags : DWORD ) : BOOL
12634: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD ) : BOOL
12635: //Function wEnumTimeFormats( lpTimeFmtEnumProc: TFNTimeFmtEnumProc; Locale: LCID; dwFlags: DWORD ); BOOL;
12636: Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD ) : DWORD
12637: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar)
12638: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
12639:     dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL

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12622: Function wFindAtom( lpString : PKOLChar ) : ATOM
12623: Function
wFindFirstChangeNotification( lpPathName:PKOLChar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD):THandle;
12624: Function wFindFirstFile( lpFileName : PKOLChar; var lpFindFileData : TWIN32FindData ) : THandle
12625: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFindIndexInfoLevels; lpFindFileData :
Pointer; fSearchOp : TFindIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD ) : BOOL
12626: Function wFindNextFile( hFindFile : THandle; var lpFindFileData : TWIN32FindData ) : BOOL
12627: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar ) : HRSRC
12628: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word ) : HRSRC
12629: Function
wFoldString( dwMapFlags:DWORD; lpSrcStr:PKOLChar; cchSrc:Int; lpDestStr:PKOLChar; cchDest:Integer ):Integer);
12630: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
DWORD; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer ) : DWORD
12631: Function wFreeEnvironmentStrings( EnvBlock : PKOLChar ) : BOOL
12632: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12633: Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD ) : BOOL
12634: Function wGetCommandLine : PKOLChar
12635: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD ) : DWORD
12636: Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD ) : BOOL
12637: Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD ) : DWORD
12638: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer ) : Integer
12639: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12640: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar;
lpDateStr : PKOLChar; cchDate : Integer ) : Integer
12641: //Function wGetDefaultCommConfig( lpSzName:PKOLChar;var lpCC : TCommConfig;var lpdwSize:DWORD):BOOL
12642: Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector,
lpNumberOfFreeClusters, lpTotalNumberOfClusters : DWORD ) : BOOL
12643: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger ) : BOOL
12644: Function wGetDriveType( lpRootPathName : PKOLChar ) : UINT
12645: Function wGetEnvironmentStrings : PKOLChar
12646: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD ) : DWORD;
12647: Function wGetFileAttributes( lpFileName : PKOLChar ) : DWORD
12648: //Function
wGetFileAttributesEx( lpFileName:PKOLChar;fInfoLevelId:TGetFileExInfoLevs;lpFileInform:Pointer):BOOL;
12649: Function wGetFullPathName( lpFileName:PKOLChar;nBufferLength:WORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar):DWORD;
12650: //Function wGetLocaleInfo( Locale:LCID; LCTYPE:LCTYPE;lpLCData:PKOLChar;cchData:Integer): Integer
12651: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12652: Function wGetModuleFileName( hModule : HINST; lpFileName : PKOLChar; nSize : DWORD ) : DWORD
12653: Function wGetModuleHandle( lpModuleName : PKOLChar ) : HMODULE
12654: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
lpCollectDataTimeout : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD ) : BOOL
12655: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt;
lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12656: Function wGetPrivateProfileInt( lpAppName, lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar):UINT;
12657: Function
wGetPrivateProfileSection( lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD;pFileName:PKOLChar):DWORD;
12658: Function wGetPrivateProfileSectionNames( lpSzReturnBuffer:PKOLChar;nSize:DWORD;lpFileName:PKOLChar):DWORD;
12659: Function wGetPrivateProfileString( lpAppName, lpKeyName, lpDefault : PKOLChar; lpReturnedStr : PKOLChar;
nSize:DWORD; lpFileName : PKOLChar ) : DWORD
12660: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12661: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12662: Function wGetProfileString( lpAppName, lpKeyName,
lpDefault:PKOLChar;lpReturnedStr:PKOLChar;nSize:DWORD):DWORD;
12663: Function wGetShortPathName( lpSzLongPath:PKOLChar;lpSzShortPath: PKOLChar; cchBuffer : DWORD ) : DWORD
12664: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo )
12665: //Function wGetStringTypeEx( Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer;var
lpCharType):BOOL
12666: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12667: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar):UINT
12668: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12669: //Function
wGetTimeFormat( Loc:LCID;dwFlgs:DWORD;lpTime:PSystemTime;lpFrm:PKOLChar;lpTimeStr:PKOLChar;cTime:Int):Int
12670: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
12671: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize :
DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12672: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12673: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM
12674: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12675: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12676: Function wIsBadStringPtr( lpSz : PKOLChar; ucchMax : UINT ) : BOOL
12677: Function
wLMapString( Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int;
12678: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12679: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12680: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12681: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12682: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TFNProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12683: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName:PKOLChar ) : THandle
12684: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar):THandle
12685: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12686: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar):THandle
12687: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;bInheritHandle:BOOL;lpTimerName:PKOLChar):THandle
12688: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12689: //Function wPeekConsoleInput( hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
lpNumberOfEventsRead:DWORD):BOOL;

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12690: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12691: //Function wQueryRecoveryAgents( p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12692: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12693: //Function wReadConsoleInput( hConsoleInput: THandle; var lpBuf: TInpRec; nLength: DWORD; var
lpNumOfEventsRead: DWORD ): BOOL;
12694: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
: TCoord; var lpReadRegion : TSmallRect ) : BOOL
12695: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12696: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12697: //Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12698: Function wSearchPath( lpPath, lpFileName, lpExtension: PKOLChar; nBufferLength: DWORD; lpBuffer: PKOLChar; var
lpFilePart: PKOLChar ): DWORD;
12699: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12700: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12701: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12702: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12703: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12704: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12705: //Function wSetLocaleInfo( Locale : LCID; LCType : LCTYPE; lpLCData : PKOLChar ) : BOOL
12706: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12707: //Function wUpdateResource( hUpdate: THandle; lpType,
lpName: PKOLChar; wLanguage: Word; lpData: Ptr; cbData: DWORD ): BOOL
12708: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12709: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12710: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite :
DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12711: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
var lpNumberOfEventsWritten : DWORD ) : BOOL
12712: //Function wWriteConsoleOutput( hConsoleOutput: THandle; lpBuffer: Pointer; dwBufferSize, dwBufferCoord :
TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12713: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12714: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12715: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12716: Function wWriteProfileSection( lpAppName, lpString : PKOLChar ) : BOOL
12717: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12718: Function wlstcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12719: Function wlstcmp( lpString1, lpString2 : PKOLChar ) : Integer
12720: Function wlstcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12721: Function wlstcpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12722: Function wlstcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12723: Function wlstlen( lpString : PKOLChar ) : Integer
12724: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruc :
PNetConnectInfoStruct ) : DWORD
12725: //Function wNetAddConnection2( var lpNetResource: TNetResource; lpPassword,
lpUserName: PKOLChar; dwFlags: DWORD ): DWORD;
12726: //Function wNetAddConnection3( hwndOwner : HWND; var lpNetResource: TNetResource; lpPassword,
lpUserName: PKOLChar; dwFlags : DWORD ) : DWORD
12727: Function wNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12728: Function wNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12729: Function wNetCancelConnection( lpName : PKOLChar; fForce : BOOL ) : DWORD
12730: //Function wNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12731: //Function wNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12732: //Function wNetEnumResource( hEnum: THandle; var lpcCount: DWORD; lpBuffer: Ptr; var lpBufferSize: DWORD ): DWORD;
12733: Function wNetGetConnection( lpLocalName: PKOLChar; lpRemoteName: PKOLChar; var lpnLength: DWORD ): DWORD;
12734: Function wNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
: PKOLChar; nNameBufSize : DWORD ) : DWORD
12735: //Function wNetGetNetworkInformation( lpProvider: PKOLChar; var lpNetInfoStruct: TNetInfoStruct ): DWORD;
12736: Function wNetGetProviderName( dwNetType: DWORD; lpProviderName: PKOLChar; var lpBufferSize: DWORD ): DWORD;
12737: //Function wNetGetResourceParent( lpNetResource: PNetResource; lpBuffer: Pointer; var cbBuffer: DWORD ): DWORD;
12738: //Function wNetGetUniversalName( lpLocalPath: PKOLChar; dwInfoLevel: DWORD; lpBuffer: Ptr; var
lpBufferSize: DWORD ): DWORD;
12739: Function wNetGetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12740: // Function wNetOpenEnum( dwScope, dwType, dwUsage: DWORD; lpNetResource: PNetRes; var lpEnum: THandle ): DWORD;
12741: // Function wNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD
12742: //Function wNetUseConnection( hwndOwner: HWND; var
lpNetResource: TNetResource; lpUserID: PKOLChar; lpPassword: PKOLChar; dwFlags: DWORD; lpAccessName: PKOLChar; var
lpBufferSize: DWORD; var lpResult: DWORD ): DWORD
12743: Function wGetFileVersionInfo( lptstrFilename: PKOLChar; dwHandle, dwLen: DWORD; lpData: Pointer ): BOOL;
12744: Function wNetGetVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12745: Function wVerFindFile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpDestDirLen : UINT ) : DWORD
12746: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestDir, szCurDir,
szTmpFile : PKOLChar; var lpuTmpFileLen : UINT ) : DWORD
12747: //Function wVerQueryValue( pBlock: Pointer; lpSubBlock: PKOLChar; var lpplpBuffer: Ptr; var puLen: UINT ): BOOL;
12748: //Function wGetPrivateProfileStruct( lpszSection,
lpszKey: PKOLChar; lpStruct: Ptr; uSizeStruct: UINT; szFile: PKOLChar ): BOOL;
12749: //Function wWritePrivateProfileStruct( lpszSection,
lpszKey: PKOLChar; lpStruct: Ptr; uSizeStruct: UINT; szFile: PKOLChar ): BOOL;
12750: Function wAddFontResource( FileName : PKOLChar ) : Integer
12751: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : Integer
12752: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar ) : HENHMETAFILE
12753: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar ) : HMETAFILE
12754: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace ) : HCOLORSPACE
12755: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvMInit : PDeviceMode ) : HDC
12756: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar ) : HDC

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12757: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientaion, fnWeight : Integer; fdwItalic,
fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
fdwPitchAndFamily:DWORD; lpszFace:PKOLChar):HFONT;
12758: Function wCreateFontIndirect( const pl : TLogFont ) : HFONT
12759: //Function wCreateFontIndirectEx( const pl : PEnumLogFontExDV ) : HFONT
12760: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode ) : HDC
12761: Function wCreateMetaFile( pl : PKOLChar ) : HDC
12762: Function wCreateScalableFontResource( pl : DWORD; p2, p3, p4 : PKOLChar ) : BOOL
12763: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int;
12764: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFNFontEnumProc; p4 : LPARAM ) : BOOL
12765: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL);
12766: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fntemprc:TFNFontEnumProc;lpszData:PKOLChar):Integer;
12767: //Function wEnumICMPProfiles( DC : HDC; ICMPProc : TFNICMEnumProc; p3 : LPARAM ) : Integer
12768: //Function wExtTextOut(DC:HDC;X,
Y:Int;Options:Longint;Rect:Rect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12769: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs ) : BOOL
12770: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatStructs ) : BOOL
12771: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12772: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12773: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12774: // Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12775: Function wGetEnhMetaFile( pl : PKOLChar ) : HENHMETAFILE
12776: Function wGetEnhMetaFileDescription( pl : HENHMETAFILE; p2 : UINT; p3 : PKOLChar ) : UINT
12777: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : DWORD ) : DWORD
12778: // Function wGetGlyphOutline( DC : HDC; uChar,uFormat:UINT;const lpgm:TGlyphMetrics; cbBuffer : DWORD;
lpvBuffer : Pointer; const lpmat2 : TMat2 ) : DWORD
12779: Function wGetICMProfile( DC : HDC; var Size : DWORD; Name : PKOLChar ) : BOOL
12780: // Function wGetLogColorSpace( pl : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD ) : BOOL
12781: Function wGetMetaFile( pl : PKOLChar ) : HMETAFILE
12782: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12783: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UINT
12784: //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSize):BOOL
12785: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12786: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12787: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12788: //Function wGetTextMetrics( DC : HDC; var TM : TTextMetric ) : BOOL
12789: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12790: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12791: //Function wRemoveFontResourceEx( pl : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12792: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12793: Function wSetICMProfile( DC : HDC; Name : PKOLChar ) : BOOL
12794: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer
12795: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer ) : BOOL
12796: Function wUpdateICMRegKey( pl : DWORD; p2, p3 : PKOLChar; p4 : UINT ) : BOOL
12797: Function wglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD ) : BOOL
12798: //Function wglUseFontOutlines(pl:HDC; p2,p3,p4:DWORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL
12799: Function wAppendMenu( hMenu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12800: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer ) : BOOL
12801: //Function
wCallWindowProc( lpPrevWndFunc:TFNWndProc;hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12802: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD ) : Longint
12803: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar;var lpDevMode: TDeviceMode; wnd : HWND;
dwFlags : DWORD; lParam : Pointer ) : Longint
12804: Function wChangeMenu( hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12805: Function wCharLower( lpsz : PKOLChar ) : PKOLChar
12806: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12807: Function wCharNext( lpsz : PKOLChar ) : PKOLChar
12808: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12809: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar ) : PKOLChar
12810: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12811: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12812: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12813: Function wCharUpper( lpsz : PKOLChar ) : PKOLChar
12814: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12815: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer ) : Integer
12816: Function wCreateAcceleratorTable( var Accel, Count : Integer ) : HACCEL
12817: //Function wCreateDesktop(lpszDesktop,
lpszDevice:PKOLChar;pDevmode:PDeviceMode;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12818: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12819: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12820: Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12821: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle:DWORD;X,Y,
nWidth, nHeight:Int WndParent:HWND;hMenu:HMENU;hInstance:HINST;lpParam:Pointer):HWND
12822: //Function wCreateWindowStation(lpwinsta:PKOLChar;dwReserv,
dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12823: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12824: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12825: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12826: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12827: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent :
HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12828: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc :
TFNDlgProc; dwInitParam : LPARAM ) : Integer
12829: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12830: Function wDlDirList( hDlg:HWND;lpPathSpec:PKOLChar;nIDListBox,
nIDStaticPath:Integer;uFileType:UINT):Integer;

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12831: Function wDlgDirListComboBox(hDlg:HWND;lpPathSpec:PKOLChar;nIDComboBox,
nIDStaticPath:Int;uFiletype:UINT):Int;
12832: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer): BOOL
12833: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer) : BOOL
12834: //Function wDrawState(DC:HDC;Brush:HBRUSH;CBFunc:TFNDrawStateProc;lData:LPARA;wDat:WPARA;x,y,cx,
cy:Int;Flags:UINT):BOOL;
12835: Function wDrawText(hDC:HDC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT):Integer;
12836: Function wFindWindow( lpClassName, lpWindowName : PKOLChar) : HWND
12837: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar) : HWND
12838: //Function wGetAltTabInfo(hwnd:HWND;iItem:Int;var
pati:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12839: // Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass) : BOOL
12840: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx) : BOOL
12841: Function wGetClassLong( hWnd : HWND; nIndex : Integer) : DWORD
12842: Function wGetClassName( hWnd : HWND; lpClassName : PKOLChar; nMaxCount : Integer) : Integer
12843: Function wGetClipboardFormatName( format : UINT; lpzFormatName:PKOLChar;cchMaxCount:Integer):Integer;
12844: Function wGetDlgItemText( hDlg: HWND;nIDDlgItem:Integer;lpString:PKOLChar;nMaxCount:Integer):UINT
12845: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer) : Integer
12846: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar) : BOOL
12847: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo) : BOOL
12848: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer;
12849: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT) : BOOL
12850: Function wGetProp( hWnd : HWND; lpString : PKOLChar) : THandle
12851: //Function wGetTabbedTextExtent( hDC : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
lpnTabStopPositions) : DWORD
12852: //Function wGetUserObjectInformation(hObj:THandle;nIndex:Int;pvInfo:Ptr;nLength:DWORD;var
lpnLengthNeed:DWORD)BOOL;
12853: Function wGetWindowLong( hWnd : HWND; nIndex : Integer) : Longint
12854: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UINT) : UINT
12855: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer) : Integer
12856: Function wGetWindowTextLength( hWnd : HWND) : Integer
12857: //Function wGrayString(hDC:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:LPARA;nCnt,X,Y,nWidt,
nHeigt:Int):BOOL;
12858: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar) : BOOL
12859: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo) : BOOL
12860: Function wIsCharAlpha( ch : KOLChar) : BOOL
12861: Function wIsCharAlphaNumeric( ch : KOLChar) : BOOL
12862: Function wIsCharLower( ch : KOLChar) : BOOL
12863: Function wIsCharUpper( ch : KOLChar) : BOOL
12864: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg) : BOOL
12865: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar) : HACCEL
12866: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar) : HBITMAP
12867: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar) : HCURSOR
12868: Function wLoadCursorFromFile( lpFileName : PKOLChar) : HCURSOR
12869: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar) : HICON
12870: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
12871: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT) : HKL
12872: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar) : HMENU
12873: //Function wLoadMenuIndirect( lpMenuTemplate : Pointer) : HMENU
12874: Function wLoadString(hInstance:HINST;uID: UINT; lpBuffer:PKOLChar;nBufferMax:Integer):Integer
12875: Function wMapVirtualKey( uCode, uMapType : UINT) : UINT
12876: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwHKL : HKL) : UINT
12877: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT) : Integer
12878: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12879: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams) : BOOL
12880: Function wModifyMenu( hMnu : HMENU; uPosition, uFlags, uIDNewItem : PKOLChar) : BOOL
12881: //Function wOemToAnsi( const lpzSrc : LPCSTR; lpzDst : LPSTR) : BOOL
12882: //Function wOemToAnsiBuff( lpzSrc : LPCSTR; lpzDst : LPSTR; cchDstLength : DWORD) : BOOL
12883: Function wOemToChar( lpzSrc : PKOLChar; lpzDst : PKOLChar) : BOOL
12884: Function wOemToCharBuff( lpzSrc : PKOLChar; lpzDst : PKOLChar; cchDstLength : DWORD) : BOOL
12885: Function wOpenDesktop(lpzDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD): HDESK
12886: Function wOpenWindowStation( lpzWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD) : HWINSTA
12887: Function wPeekMessage( var lpMsg : TMsg; hWnd: HWND; wMsgFilterMin, wMsgFilterMax, wRemoveMsg:UINT):BOOL
12888: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
12889: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
12890: Function wRealGetWindowClass( hwnd : HWND; pszType : PKOLChar; cchType : UINT) : UINT
12891: // Function wRegisterClass( const lpWndClass : TWndClass) : ATOM
12892: // Function wRegisterClassEx( const WndClass : TWndClassEx) : ATOM
12893: Function wRegisterClipboardFormat( lpzFormat : PKOLChar) : UINT
12894: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
12895: Function wRegisterWindowMessage( lpString : PKOLChar) : UINT
12896: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar) : THandle
12897: Function wSendDlgItemMessage(hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12898: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
12899: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
lpResultCallBack : TFNSendAsyncProc; dwData : DWORD) : BOOL
12900: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
lpdwResult:DWORD): LRESULT
12901: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
12902: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : DWORD
12903: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar) : BOOL
12904: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo) : BOOL
12905: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle) : BOOL
12906: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12907: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : Longint
12908: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar) : BOOL
12909: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc) : HHOOK
12910: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
12911: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni: UINT):BOOL

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12912: Function wTabbedTextOut(hDC:HDC;X,Y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
lpnTabStopPositions,nTabOrigin:Int):Longint;
12913: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg) : Integer
12914: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST) : BOOL
12915: Function wVkKeyScan( ch : KOLChar) : SHORT
12916: Function wVkKeyScanEx( ch : KOLChar; dwHkl : HKL) : SHORT
12917: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD) : BOOL
12918: Function wwsprintf( Output : PKOLChar; Format : PKOLChar) : Integer
12919: Function wvwsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list) : Integer
12920:
12921: //TestDrive!
12922: 'SID_REVISION','LongInt').SetInt(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL
12923: 'PROC_CONVERTSIDSTOSTRINGSIDA','String').SetString('ConvertSidToStringSida
12924: Function GetDomainUserSidS(const domainName:String;const userName:String; var foundDomain:String):String;
12925: Function GetLocalUserSidStr( const UserName : string) : string
12926: Function getPid4user( const domain : string; const user : string; var pid : dword) : boolean
12927: Function Impersonate2User( const domain : string; const user : string) : boolean
12928: Function GetProcessUserByPid( pid : DWORD; var UserName, Domain : AnsiString) : Boolean
12929: Function KillProcessbyname( const exename : string; var found : integer) : integer
12930: Function getWinProcessList : TStringList
12931: end;
12932:
12933: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12934: begin
12935: 'AfMaxSyncSlots','LongInt').SetInt( 64);
12936: 'AfSynchronizeTimeout','LongInt').SetInt( 2000);
12937: 'TafSyncSlotID', 'DWORD
12938: 'TafSyncStatistics', record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end;
12939: 'TafSafeSyncEvent', 'Procedure ( ID : TafSyncSlotID)
12940: 'TafSafeDirectSyncEvent', 'Procedure
12941: Function AfNewSyncSlot( const AEvent : TafSafeSyncEvent) : TafSyncSlotID
12942: Function AfReleaseSyncSlot( const ID : TafSyncSlotID) : Boolean
12943: Function AfEnableSyncSlot( const ID : TafSyncSlotID; Enable : Boolean) : Boolean
12944: Function AfValidateSyncSlot( const ID : TafSyncSlotID) : Boolean
12945: Function AfSyncEvent( const ID : TafSyncSlotID; Timeout : DWORD) : Boolean
12946: Function AfDirectSyncEvent( Event : TafSafeDirectSyncEvent; Timeout : DWORD) : Boolean
12947: Function AfIsSyncMethod : Boolean
12948: Function AfSyncWnd : HWND
12949: Function AfSyncStatistics : TafSyncStatistics
12950: Procedure AfClearSyncStatistics
12951: end;
12952:
12953: procedure SIRegister_AfComPortCore(CL: TPSPascalCompiler);
12954: begin
12955: 'fBinary','LongWord').SetUInt( $00000001);
12956: 'fParity','LongWord').SetUInt( $00000002);
12957: 'fOutxCtsFlow','LongWord').SetUInt( $00000004);
12958: 'fOutxDsrFlow','LongWord').SetUInt( $00000008);
12959: 'fDtrControl','LongWord').SetUInt( $00000030);
12960: 'fDtrControlDisable','LongWord').SetUInt( $00000000);
12961: 'fDtrControlEnable','LongWord').SetUInt( $00000010);
12962: 'fDtrControlHandshake','LongWord').SetUInt( $00000020);
12963: 'fDsrSensitivity','LongWord').SetUInt( $00000040);
12964: 'fTXContinueOnXoff','LongWord').SetUInt( $00000080);
12965: 'fOutX','LongWord').SetUInt( $00000100);
12966: 'fInX','LongWord').SetUInt( $00000200);
12967: 'fErrorChar','LongWord').SetUInt( $00000400);
12968: 'fNull','LongWord').SetUInt( $00000800);
12969: 'fRtsControl','LongWord').SetUInt( $00003000);
12970: 'fRtsControlDisable','LongWord').SetUInt( $00000000);
12971: 'fRtsControlEnable','LongWord').SetUInt( $00001000);
12972: 'fRtsControlHandshake','LongWord').SetUInt( $00002000);
12973: 'fRtsControlToggle','LongWord').SetUInt( $00003000);
12974: 'fAbortOnError','LongWord').SetUInt( $00004000);
12975: 'fDummy2','LongWord').SetUInt( $FFFF8000);
12976: 'TafCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
12977: CL.FindClass('TOBJECT'),'EafComPortCoreError
12978: FindClass('TOBJECT'),'TafComPortCore
12979: 'TafComPortCoreEvent', 'Procedure ( Sender : TafComPortCore; Even'
12980: + 'tKind : TafCoreEvent; Data : DWORD)
12981: SIRegister_TafComPortCoreThread(CL);
12982: SIRegister_TafComPortEventThread(CL);
12983: SIRegister_TafComPortWriteThread(CL);
12984: SIRegister_TafComPortCore(CL);
12985: Function FormatDeviceName( PortNumber : Integer) : string
12986: end;
12987:
12988: procedure SIRegister_ApplicationFileIO(CL: TPSPascalCompiler);
12989: begin
12990: 'TAFIOFileStreamEvent', 'Function ( const fileName : String; mode: Word) : TStream
12991: 'TAFIOFileStreamExistsEvent', 'Function ( const fileName : String) : Boolean
12992: SIRegister_TApplicationFileIO(CL);
12993: 'TDataFileCapability', '( dfcRead, dfcWrite )
12994: 'TDataFileCapabilities', 'set of TDataFileCapability
12995: SIRegister_TDataFile(CL);
12996: //TDataFileClass', 'class of TDataFile
12997: Function ApplicationFileIODefined : Boolean
12998: Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
12999: Function FileStreamExists(const fileName: String) : Boolean

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13000: //Procedure Register
13001: end;
13002:
13003: procedure SIRegister_ALFBXLib(CL: TPSPascalCompiler);
13004: begin
13005:   TALFBXFieldType, '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13006:     +', uftCString, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecisi'
13007:     +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13008:   TALFBXScale', 'Integer
13009:   FindClass('TOBJECT'), 'EALFBXConvertError
13010:   SIRegister_EALFBXError(CL);
13011:   SIRegister_EALFBXException(CL);
13012:   FindClass('TOBJECT'), 'EALFBXGfixError
13013:   FindClass('TOBJECT'), 'EALFBXDSQLError
13014:   FindClass('TOBJECT'), 'EALFBXDynError
13015:   FindClass('TOBJECT'), 'EALFBXGBakError
13016:   FindClass('TOBJECT'), 'EALFBXGSecError
13017:   FindClass('TOBJECT'), 'EALFBXLicenseError
13018:   FindClass('TOBJECT'), 'EALFBXGStatError
13019:   //EALFBXExceptionClass', 'class of EALFBXError
13020:   TALFBXCharacterSet, '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13021:     +', 37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13022:     +', csEUCJ_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13023:     +', TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252,'
13024:     +', csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13025:     +', sDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13026:     +', _4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13027:     +', 8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13028:   TALFBXTransParam, '( tpConsistency, tpConcurrency, tpShared, tp'
13029:     +', Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13030:     +', ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13031:     +', Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13032:   TALFBXTransParams', 'set of TALFBXTransParam
13033:   Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13034:   Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13035:   Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13036:   'cALFBXMaxParamLength', 'LongInt').SetInt( 125);
13037:   TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13038:   TALFBXParamsFlags', 'set of TALFBXParamsFlag
13039:   //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13040:   //PALFBXSQLDaData', '^TALFBXSQLDaData // will not work
13041:   TALFBXStatementType, '( stSelect, stInsert, stUpdate, stDelete,'
13042:     +', stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stComm'
13043:     +', t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13044:   SIRegister_TALFBXSQLDA(CL);
13045:   //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13046:   SIRegister_TALFBXPoolStream(CL);
13047:   //PALFBXBlobData', '^TALFBXBlobData // will not work
13048:   TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13049:   //PALFBXArrayDesc', '^TALFBXArrayDesc // will not work
13050:   //TALFBXArrayDesc', 'TISCArrDesc
13051:   //TALFBXBlobDesc', 'TISCBlobDesc
13052:   //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13053:   //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13054:   SIRegister_TALFBXSQLResult(CL);
13055:   //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13056:   SIRegister_TALFBXSQLParams(CL);
13057:   //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13058:   TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13059:     +', atementType : TALFBXStatementType; end
13060:   FindClass('TOBJECT'), 'TALFBXLibrary
13061:   //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13062:   TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary)
13063:   //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13064:     +', '+ Excep : EALFBXExceptionClass)
13065:   SIRegister_TALFBXLibrary(CL);
13066:   'cALFBXDateOffset', 'LongInt').SetInt( 15018);
13067:   'cALFBXTimeCoeff', 'LongInt').SetInt( 864000000);
13068:   //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double);
13069:   //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp);
13070:   //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp) : Double;
13071:   Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word)
13072:   Procedure ALFBXDecodeSQLTime(v: Cardinal; out Hour, Minute, Second: Word; out Fractions: LongWord)
13073:   //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp);
13074:   //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp);
13075:   //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp);
13076:   Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer) : Integer
13077:   Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord): Cardinal
13078:   TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prIgno )
13079:   TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13080:   Function ALFBXSQLQuote( const name : AnsiString) : AnsiString
13081:   Function ALFBXSQLUnQuote( const name : AnsiString) : AnsiString
13082: end;
13083:
13084: procedure SIRegister_ALFBXClient(CL: TPSPascalCompiler);
13085: begin
13086:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13087:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13088:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'

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13089:   +'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13090:   +'teger; First : Integer; CacheThreshold : Integer; end
13091:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13092:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13093:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13094:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13095:   +'_writes : int64; page_fetches : int64; page_marks : int64; end
13096:   SIRegister_TALFBXClient(CL);
13097:   SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13098:   SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13099:   SIRegister_TALFBXConnectionWithStmtPoolContainer(CL);
13100:   SIRegister_TALFBXConnectionWithoutStmtPoolContainer(CL);
13101:   SIRegister_TALFBXReadTransactionPoolContainer(CL);
13102:   SIRegister_TALFBXReadStatementPoolContainer(CL);
13103:   SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13104:   SIRegister_TALFBXConnectionPoolClient(CL);
13105:   SIRegister_TALFBXEventThread(CL);
13106:   Function AlMySqlClientSlashedStr( const Str : AnsiString) : AnsiString
13107: end;
13108:
13109: procedure SIRegister_ovcBidi(CL: TPSPascalCompiler);
13110: begin
13111:   _OSVERSIONINFOA = record
13112:     dwOSVersionInfoSize: DWORD;
13113:     dwMajorVersion: DWORD;
13114:     dwMinorVersion: DWORD;
13115:     dwBuildNumber: DWORD;
13116:     dwPlatformId: DWORD;
13117:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13118:   end;
13119:   TOSVersionInfoA', '_OSVERSIONINFOA
13120:   TOSVersionInfo', 'TOSVersionInfoA
13121:   'WS_EX_RIGHT', 'LongWord').SetUInt( $00001000);
13122:   'WS_EX_LEFT', 'LongWord').SetUInt( $00000000);
13123:   'WS_EX_RTLREADING', 'LongWord').SetUInt( $00002000);
13124:   'WS_EX_LTRREADING', 'LongWord').SetUInt( $00000000);
13125:   'WS_EX_LEFTSCROLLBAR', 'LongWord').SetUInt( $00004000);
13126:   'WS_EX_RIGHTSCROLLBAR', 'LongWord').SetUInt( $00000000);
13127:   Function SetProcessDefaultLayout( dwDefaultLayout : DWORD) : BOOL
13128:   'LAYOUT_RTL', 'LongWord').SetUInt( $00000001);
13129:   'LAYOUT_BTT', 'LongWord').SetUInt( $00000002);
13130:   'LAYOUT_VBH', 'LongWord').SetUInt( $00000004);
13131:   'LAYOUT_BITMAPORIENTATIONPRESERVED', 'LongWord').SetUInt( $00000008);
13132:   'NOMIRRORBITMAP', 'LongWord').SetUInt( DWORD ( $80000000 ));
13133:   Function SetLayout( dc : HDC; dwLayout : DWORD) : DWORD
13134:   Function GetLayout( dc : hdc) : DWORD
13135:   Function IsBidi : Boolean
13136:   Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo) : BOOL
13137:   Function GetVersionEx( var lpVersionInformation : TOSVersionInfo) : BOOL
13138:   Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD) : BOOL
13139:   Function GetPriorityClass( hProcess : THandle) : DWORD
13140:   Function OpenClipboard( hWndNewOwner : HWND) : BOOL
13141:   Function CloseClipboard : BOOL
13142:   Function GetClipboardSequenceNumber : DWORD
13143:   Function GetClipboardOwner : HWND
13144:   Function SetClipboardViewer( hWndNewViewer : HWND) : HWND
13145:   Function GetClipboardViewer : HWND
13146:   Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND) : BOOL
13147:   Function SetClipboardData( uFormat : UINT; hMem : THandle) : THandle
13148:   Function GetClipboardData( uFormat : UINT) : THandle
13149:   Function RegisterClipboardFormat( lpszFormat : PChar) : UINT
13150:   Function CountClipboardFormats : Integer
13151:   Function EnumClipboardFormats( format : UINT) : UINT
13152:   Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13153:   Function EmptyClipboard : BOOL
13154:   Function IsClipboardFormatAvailable( format : UINT) : BOOL
13155:   Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer) : Integer
13156:   Function GetOpenClipboardWindow : HWND
13157:   Function EndDialog( hDlg : HWND; nResult : Integer) : BOOL
13158:   Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer) : HWND
13159:   Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13160:   Function GetDlgItemInt( hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13161:   Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar) : BOOL
13162:   Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UINT) : BOOL
13163:   Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton, nIDCheckButton : Integer) : BOOL
13164:   Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer) : UINT
13165:   Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13166: end;
13167:
13168: procedure SIRegister_DXPUtils(CL: TPSPascalCompiler);
13169: begin
13170:   Function glExecuteAndWait(cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool):Int;
13171:   Function GetTemporaryFilesPath : String
13172:   Function GetTemporaryFileName : String
13173:   Function FindFileInPaths( const fileName, paths : String) : String
13174:   Function PathsToString( const paths : TStringList) : String
13175:   Procedure StringToPaths( const pathsString : String; paths : TStringList)
13176:   //Function MacroExpandPath( const aPath : String) : String
13177: end;

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13178:
13179: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13180: begin
13181:   SIRegister_TALMultiPartBaseContent(CL);
13182:   SIRegister_TALMultiPartBaseContents(CL);
13183:   SIRegister_TALMultiPartBaseStream(CL);
13184:   SIRegister_TALMultiPartBaseEncoder(CL);
13185:   SIRegister_TALMultiPartBaseDecoder(CL);
13186:   Function ALMultiPartExtractBoundaryFromContentType( aContentType : AnsiString) : AnsiString
13187:   Function ALMultiPartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13188:   Function ALMultiPartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13189: end;
13190:
13191: procedure SIRegister_SmallUtils(CL: TPSPascalCompiler);
13192: begin
13193:   TdriveSize', 'record FreeS : Int64; TotalS : Int64; end
13194:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13195:   +teger; WinMinorVersion : Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13196:   Function aAllocPadedMem( Size : Cardinal) : TObject
13197:   Procedure aFreePadedMem( var P : TObject);
13198:   Procedure aFreePadedMem1( var P : PChar);
13199:   Function aCheckPadedMem( P : Pointer) : Byte
13200:   Function aGetPadMemSize( P : Pointer) : Cardinal
13201:   Function aAllocMem( Size : Cardinal) : Pointer
13202:   Function aStrLen( const Str : PChar) : Cardinal
13203:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal) : PChar
13204:   Function aStrECopy( Dest : PChar; const Source : PChar) : PChar
13205:   Function aStrCopy( Dest : PChar; const Source : PChar) : PChar
13206:   Function aStrEnd( const Str : PChar) : PChar
13207:   Function aStrScan( const Str : PChar; aChr : Char) : PChar
13208:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal) : PChar
13209:   Function aPCharLength( const Str : PChar) : Cardinal
13210:   Function aPCharUpper( Str : PChar) : PChar
13211:   Function aPCharLower( Str : PChar) : PChar
13212:   Function aStrCat( Dest : PChar; const Source : PChar) : PChar
13213:   Function aLastDelimiter( const Delimiters, S : String) : Integer
13214:   Function aCopyTail( const S : String; Len : Integer) : String
13215:   Function aInt2Thos( I : Int64) : String
13216:   Function aUpperCase( const S : String) : String
13217:   Function aLowerCase( const S : string) : String
13218:   Function aCompareText( const S1, S2 : string) : Integer
13219:   Function aSameText( const S1, S2 : string) : Boolean
13220:   Function aInt2Str( Value : Int64) : String
13221:   Function aStr2Int( const Value : String) : Int64
13222:   Function aStr2IntDef( const S : string; Default : Int64) : Int64
13223:   Function aGetFileExt( const FileName : String) : String
13224:   Function aGetFilePath( const FileName : String) : String
13225:   Function aGetFileName( const FileName : String) : String
13226:   Function aChangeExt( const FileName, Extension : String) : String
13227:   Function aAdjustLineBreaks( const S : string) : string
13228:   Function aGetWindowStr( WinHandle : HWND) : String
13229:   Function aDiskSpace( Drive : String) : TdriveSize
13230:   Function aFileExists( FileName : String) : Boolean
13231:   Function aFileSize( FileName : String) : Int64
13232:   Function aDirectoryExists( const Name : string) : Boolean
13233:   Function aSysErrorMessage( ErrorCode : Integer) : string
13234:   Function aShortPathName( const LongName : string) : string
13235:   Function aGetWindowVer : TWinVerRec
13236:   procedure InitDriveSpacePtr;
13237: end;
13238:
13239: procedure SIRegister_MakeApp(CL: TPSPascalCompiler);
13240: begin
13241:   aZero', 'LongInt').SetInt( 0);
13242:   'makeappDEF', 'LongInt').SetInt( - 1);
13243:   'CS_VREDRAW', 'LongInt').SetInt( DWORD ( 1 ));
13244:   'CS_HREDRAW', 'LongInt').SetInt( DWORD ( 2 ));
13245:   'CS_KEYCVTWINDOW', 'LongInt').SetInt( 4);
13246:   'CS_DBLCLKS', 'LongInt').SetInt( 8);
13247:   'CS_OWNDC', 'LongWord').SetUInt( $20);
13248:   'CS_CLASSDC', 'LongWord').SetUInt( $40);
13249:   'CS_PARENTDC', 'LongWord').SetUInt( $80);
13250:   'CS_NOKEYCVT', 'LongWord').SetUInt( $100);
13251:   'CS_NOCLOSE', 'LongWord').SetUInt( $200);
13252:   'CS_SAVEBITS', 'LongWord').SetUInt( $800);
13253:   'CS_BYTEALIGNCLIENT', 'LongWord').SetUInt( $1000);
13254:   'CS_BYTEALIGNWINDOW', 'LongWord').SetUInt( $2000);
13255:   'CS_GLOBALCLASS', 'LongWord').SetUInt( $4000);
13256:   'CS_IME', 'LongWord').SetUInt( $10000);
13257:   'CS_DROPSHADOW', 'LongWord').SetUInt( $20000);
13258:   //PPanelFunc', '^TPanelFunc // will not work
13259:   TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13260:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13261:   TFontLooks', 'set of TFontLook
13262:   TMessagefunc', 'function(hWnd,iMsg,wParam,lParam:Integer):Integer)
13263:   Function SetWinClass(const ClassName:String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13264:   Function SetWinClassO( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13265:   Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer) : Word
13266:   Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer

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13267: Procedure RunMsgLoop( Show : Boolean)
13268: Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13269: Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int):Int;
13270: Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13271: Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13272: Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13273: Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13274: Function id4menu( a, b : Byte; c : Byte; d : Byte) : Cardinal
13275: Procedure DoInitMakeApp //set first to init formclasscontrol!
13276: end;
13277:
13278: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13279: begin
13280:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13281:   + 'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13282:   TScreenSaverOptions', 'set of TScreenSaverOption
13283:   'cDefaultScreenSaverOptions', 'LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13284:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND)
13285:   SIRegister_TScreenSaver(CL);
13286:   //Procedure Register
13287:   Procedure SetScreenSaverPassword
13288: end;
13289:
13290: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13291: begin
13292:   FindClass('TObject'),'TXCollection
13293:   SIRegister_EFileException(CL);
13294:   SIRegister_TXCollectionItem(CL);
13295:   //TXCollectionItemClass', 'class of TXCollectionItem
13296:   SIRegister_TXCollection(CL);
13297:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent)
13298:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent)
13299:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass)
13300:   Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass)
13301:   Function FindXCollectionItemClass( const className : String) : TXCollectionItemClass
13302:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass) : TList
13303: end;
13304:
13305: procedure SIRegister_XOpenGL(CL: TPSPascalCompiler);
13306: begin
13307:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond,mtcmArbitrary);
13308:   Procedure xglMapTexCoordToNull
13309:   Procedure xglMapTexCoordToMain
13310:   Procedure xglMapTexCoordToSecond
13311:   Procedure xglMapTexCoordToDual
13312:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal);
13313:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal);
13314:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal)
13315:   Procedure xglBeginUpdate
13316:   Procedure xglEndUpdate
13317:   Procedure xglPushState
13318:   Procedure xglPopState
13319:   Procedure xglForbidSecondTextureUnit
13320:   Procedure xglAllowSecondTextureUnit
13321:   Function xglGetBitWiseMapping : Cardinal
13322: end;
13323:
13324: procedure SIRegister_VectorLists(CL: TPSPascalCompiler);
13325: begin
13326:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory)
13327:   TBaseListOptions', 'set of TBaseListOption
13328:   SIRegister_TBaseList(CL);
13329:   SIRegister_TBaseVectorList(CL);
13330:   SIRegister_TAffineVectorList(CL);
13331:   SIRegister_TVectorList(CL);
13332:   SIRegister_TTexPointList(CL);
13333:   SIRegister_TXIntegerList(CL);
13334:   //PSingleArrayList', '^TSingleArrayList // will not work
13335:   SIRegister_TSingleList(CL);
13336:   SIRegister_TByteList(CL);
13337:   SIRegister_TQuaternionList(CL);
13338:   Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList);
13339:   Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList);
13340:   Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13341: end;
13342:
13343: procedure SIRegister_MeshUtils(CL: TPSPascalCompiler);
13344: begin
13345:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList);
13346:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList);
13347:   Procedure ConvertStripToList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13348:   Procedure ConvertIndexedListToList(const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList);
13349:   Function BuildVectorCountOptimizedIndices(const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList) : TIntegerList

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13350: Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList);
13351: Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList);
13352: Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList)
13353: Function RemapIndicesToIndicesMap( remapIndices : TIntegerList) : TIntegerList
13354: Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList)
13355: Procedure RemapIndices( indices, indicesMap : TIntegerList)
13356: Procedure UnifyTrianglesWinding( indices : TIntegerList)
13357: Procedure InvertTrianglesWinding( indices : TIntegerList)
13358: Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList) : TAffineVectorList
13359: Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList) : TIntegerList
13360: Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single)
13361: Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):
TPersistentObjectList;
13362: Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer)
13363: Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices :
TIntegerList; normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent)
13364: end;
13365:
13366: procedure SIRegister_JclSysUtils(CL: TPSPascalCompiler);
13367: begin
13368: Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte)
13369: Procedure FreeMemAndNil( var P : TObject)
13370: Function PCharOrNil( const S : string) : PChar
13371: SIRegister_TJclReferenceMemoryStream(CL);
13372: FindClass('TObject'),'EJclVMError
13373: {Function GetVirtualMethodCount( AClass : TClass) : Integer
13374: Function GetVirtualMethod( AClass : TClass; const Index : Integer) : Pointer
13375: Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer)
13376: PDynamicIndexList', 'TDynamicIndexList // will not work
13377: PDynamicAddressList', 'TDynamicAddressList // will not work
13378: Function GetDynamicMethodCount( AClass : TClass) : Integer
13379: Function GetDynamicIndexList( AClass : TClass) : PDynamicIndexList
13380: Function GetDynamicAddressList( AClass : TClass) : PDynamicAddressList
13381: Function HasDynamicMethod( AClass : TClass; Index : Integer) : Boolean
13382: Function GetDynamicMethod( AClass : TClass; Index : Integer) : Pointer
13383: Function GetInitTable( AClass : TClass) : PTypeInfo
13384: PFieldEntry', 'TFieldEntry // will not work}
13385: TFieldEntry', 'record OffSet : Integer; IDX : Word; Name : Short'
13386: + 'String; end
13387: Function JIsClass( Address : Pointer) : Boolean
13388: Function JIsObject( Address : Pointer) : Boolean
13389: Function GetImplementorOfInterface( const I : IInterface) : TObject
13390: TDigitCount', 'Integer
13391: SIRegister_TJclNumericFormat(CL);
13392: Function JIntToStrZeroPad( Value, Count : Integer) : AnsiString
13393: TTextHandler', 'Procedure ( const Text : string)
13394: // 'ABORT_EXIT_CODE','LongInt').SetInt( ERROR_CANCELLED 1223);
13395: Function JExecute(const
CommandLine:string;OutputLineCallback:TTextHandler;RawOutput:Bool;AbortPtr:PBool):Card;
13396: Function JExecute1(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13397: Function ReadKey : Char //to and from the DOS console !
13398: TModuleHandle', 'HINST
13399: //TModuleHandle', 'Pointer
13400: 'INVALID_MODULEHANDLE_VALUE','LongInt').SetInt( TModuleHandle ( 0 ));
13401: Function LoadModule( var Module : TModuleHandle; FileName : string) : Boolean
13402: Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal) : Boolean
13403: Procedure UnloadModule( var Module : TModuleHandle)
13404: Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string) : Pointer
13405: Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean) : Pointer
13406: Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size: Cardinal):Boolean;
13407: Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13408: FindClass('TObject'),'EJclConversionError
13409: Function JStrToBoolean( const S : string) : Boolean
13410: Function JBooleanToStr( B : Boolean) : string
13411: Function JIntToBool( I : Integer) : Boolean
13412: Function JBoolToInt( B : Boolean) : Integer
13413: 'ListSeparator','String').SetString( '
13414: 'ListSeparator1','String').SetString( '
13415: Procedure ListAddItems( var List : string; const Separator, Items : string)
13416: Procedure ListIncludeItems( var List : string; const Separator, Items : string)
13417: Procedure ListRemoveItems( var List : string; const Separator, Items : string)
13418: Procedure ListDelItem( var List : string; const Separator : string; const Index : Integer)
13419: Function ListItemCount( const List, Separator : string) : Integer
13420: Function ListGetItem( const List, Separator : string; const Index : Integer) : string
13421: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13422: Function ListItemIndex( const List, Separator, Item : string) : Integer
13423: Function SystemToObjectInstance : LongWord
13424: Function IsCompiledWithPackages : Boolean
13425: Function JJclGUIDToString( const GUID : TGUID) : string
13426: Function JJclStringToGUID( const S : string) : TGUID
13427: SIRegister_TJclIntfCriticalSection(CL);
13428: SIRegister_TJclSimpleLog(CL);
13429: Procedure InitSimpleLog( const ALogFileName : string)
13430: end;
13431:
13432: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13433: begin
13434: FindClass('TObject'),'EJclBorRAException

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13435:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )
13436:   TJclBorRADToolEdition', '( deOPEN, dePRO, deSVR )
13437:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )
13438:   TJclBorRADToolPath', 'string
13439:   'SupportedDelphiVersions', 'LongInt').SetInt( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13440:   'SupportedBCBVersions', 'LongInt').SetInt( 5 or 6 or 10 or 11);
13441:   'SupportedBDSVersions', 'LongInt').SetInt( 1 or 2 or 3 or 4 or 5);
13442:   BorRADToolRepositoryPagesSection', 'String').SetString( 'Repository Pages
13443:   BorRADToolRepositoryDialogsPage', 'String').SetString( 'Dialogs
13444:   BorRADToolRepositoryFormsPage', 'String').SetString( 'Forms
13445:   BorRADToolRepositoryProjectsPage', 'String').SetString( 'Projects
13446:   BorRADToolRepositoryDataModulesPage', 'String').SetString( 'Data Modules
13447:   BorRADToolRepositoryObjectType', 'String').SetString( 'Type
13448:   BorRADToolRepositoryFormTemplate', 'String').SetString( 'FormTemplate
13449:   BorRADToolRepositoryProjectTemplate', 'String').SetString( 'ProjectTemplate
13450:   BorRADToolRepositoryObjectName', 'String').SetString( 'Name
13451:   BorRADToolRepositoryObjectPage', 'String').SetString( 'Page
13452:   BorRADToolRepositoryObjectIcon', 'String').SetString( 'Icon
13453:   BorRADToolRepositoryObjectDescr', 'String').SetString( 'Description
13454:   BorRADToolRepositoryObjectAuthor', 'String').SetString( 'Author
13455:   BorRADToolRepositoryObjectAncestor', 'String').SetString( 'Ancestor
13456:   BorRADToolRepositoryObjectDesigner', 'String').SetString( 'Designer
13457:   BorRADToolRepositoryDesignerDfm', 'String').SetString( 'dfm
13458:   BorRADToolRepositoryDesignerXfm', 'String').SetString( 'xfm
13459:   BorRADToolRepositoryObjectNewForm', 'String').SetString( 'DefaultNewForm
13460:   BorRADToolRepositoryObjectMainForm', 'String').SetString( 'DefaultMainForm
13461:   SourceExtensionDelphiPackage', 'String').SetString( '.dpk
13462:   SourceExtensionBCBPackage', 'String').SetString( '.bpc
13463:   SourceExtensionDelphiProject', 'String').SetString( '.dpr
13464:   SourceExtensionBCBProject', 'String').SetString( '.bpr
13465:   SourceExtensionBDSProject', 'String').SetString( '.bdsproj
13466:   SourceExtensionDProject', 'String').SetString( '.dproj
13467:   BinaryExtensionPackage', 'String').SetString( '.bpl
13468:   BinaryExtensionLibrary', 'String').SetString( '.dll
13469:   BinaryExtensionExecutable', 'String').SetString( '.exe
13470:   CompilerExtensionDCP', 'String').SetString( '.dcp
13471:   CompilerExtensionBPI', 'String').SetString( '.bpi
13472:   CompilerExtensionLIB', 'String').SetString( '.lib
13473:   CompilerExtensionTDS', 'String').SetString( '.tds
13474:   CompilerExtensionMAP', 'String').SetString( '.map
13475:   CompilerExtensionDRC', 'String').SetString( '.drc
13476:   CompilerExtensionDEF', 'String').SetString( '.def
13477:   SourceExtensionCPP', 'String').SetString( '.cpp
13478:   SourceExtensionH', 'String').SetString( '.h
13479:   SourceExtensionPAS', 'String').SetString( '.pas
13480:   SourceExtensionDFM', 'String').SetString( '.dfm
13481:   SourceExtensionXFM', 'String').SetString( '.xfm
13482:   SourceDescriptionPAS', 'String').SetString( 'Pascal source file
13483:   SourceDescriptionCPP', 'String').SetString( 'C++ source file
13484:   DesignerVCL', 'String').SetString( 'VCL
13485:   DesignerCLX', 'String').SetString( 'CLX
13486:   ProjectTypePackage', 'String').SetString( 'package
13487:   ProjectTypeLibrary', 'String').SetString( 'library
13488:   ProjectTypeProgram', 'String').SetString( 'program
13489:   Personality32Bit', 'String').SetString( '32 bit
13490:   Personality64Bit', 'String').SetString( '64 bit
13491:   PersonalityDelphi', 'String').SetString( 'Delphi
13492:   PersonalityDelphiDotNet', 'String').SetString( 'Delphi.net
13493:   PersonalityBCB', 'String').SetString( 'C++Builder
13494:   PersonalityCSB', 'String').SetString( 'C#Builder
13495:   PersonalityVB', 'String').SetString( 'Visual Basic
13496:   PersonalityDesign', 'String').SetString( 'Design
13497:   PersonalityUnknown', 'String').SetString( 'Unknown personality
13498:   PersonalityBDS', 'String').SetString( 'Borland Developer Studio
13499:   DOFDirectoriesSection', 'String').SetString( 'Directories
13500:   DOFUnitOutputDirKey', 'String').SetString( 'UnitOutputDir
13501:   DOFSearchPathName', 'String').SetString( 'SearchPath
13502:   DOFConditionals', 'String').SetString( 'Conditionals
13503:   DOFLinkerSection', 'String').SetString( 'Linker
13504:   DOFPackagesKey', 'String').SetString( 'Packages
13505:   DOFCompilerSection', 'String').SetString( 'Compiler
13506:   DOFPackageNoLinkKey', 'String').SetString( 'PackageNoLink
13507:   DOFAdditionalSection', 'String').SetString( 'Additional
13508:   DOFOptionsKey', 'String').SetString( 'Options
13509:   TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13510:     + 'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13511:     + 'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13512:   TJclBorPersonalities', 'set of TJclBorPersonality
13513:   TJclBorDesigner', '( bdVCL, bdCLX )
13514:   TJclBorDesigners', 'set of TJclBorDesigner
13515:   TJclBorPlatform', '( bp32bit, bp64bit )
13516:   FindClass( 'TOBJECT', 'TJclBorRADToolInstallation
13517:   SIRegister_TJclBorRADToolInstallationObject(CL);
13518:   SIRegister_TJclBorLandOpenHelp(CL);
13519:   TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13520:   TJclHelp2Objects', 'set of TJclHelp2Object
13521:   SIRegister_TJclHelp2Manager(CL);
13522:   SIRegister_TJclBorRADToolIdeTool(CL);
13523:   SIRegister_TJclBorRADToolIdePackages(CL);

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13524: SIRegister_IJclCommandLineTool(CL);
13525: FindClass('TOBJECT'),'EJclCommandLineToolError
13526: SIRegister_TJclCommandLineTool(CL);
13527: SIRegister_TJclBorlandCommandLineTool(CL);
13528: SIRegister_TJclBCC32(CL);
13529: SIRegister_TJclDCC32(CL);
13530: TJclDCC, 'TJclDCC32
13531: SIRegister_TJclBpr2Mak(CL);
13532: SIRegister_TJclBorlandMake(CL);
13533: SIRegister_TJclBorRADToolPalette(CL);
13534: SIRegister_TJclBorRADToolRepository(CL);
13535: TCommandLineTool, '( clAsm, clBcc32, clDcc32, clDccIL, clMake,clProj2Mak )
13536: TCommandLineTools, 'set of TCommandLineTool
13537: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13538: SIRegister_TJclBorRADToolInstallation(CL);
13539: SIRegister_TJclBCBInstallation(CL);
13540: SIRegister_TJclDelphiInstallation(CL);
13541: SIRegister_TJclDCCIL(CL);
13542: SIRegister_TJclBDSInstallation(CL);
13543: TTraverseMethod, 'Function ( Installation : TJclBorRADToolInstallation) : Boolean
13544: SIRegister_TJclBorRADToolInstallations(CL);
13545: Function BPLFileName( const BPLPath, PackageFileName : string) : string
13546: Function BinaryFileName( const OutputPath, ProjectFileName : string) : string
13547: Function IsDelphiPackage( const FileName : string) : Boolean
13548: Function IsDelphiProject( const FileName : string) : Boolean
13549: Function IsBCBPackage( const FileName : string) : Boolean
13550: Function IsBCBProject( const FileName : string) : Boolean
13551: Procedure GetDPRFileInfo(const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString);
13552: Procedure GetBPRFileInfo(const BPRFileName:string;out BinaryFileName:string;const Descript:PString);
13553: Procedure GetDPKFileInfo(const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13554: Procedure GetBPKFileInfo(const BPKFileName:string;out RunOnly:Bool;const BinaryFNme:PString;const
Descript:PString);
13555: function SamePath(const Path1, Path2: string): Boolean;
13556: end;
13557:
13558: procedure SIRegister_JclFileUtils_max(CL: TPSPascalCompiler);
13559: begin
13560: 'ERROR_NO_MORE_FILES','LongInt').SetInt( 18);
13561: //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64) : Integer
13562: //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64) : Integer
13563: //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64) : Integer
13564: 'LPathSeparator','String').SetString( '/'
13565: 'LDirDelimiter','String').SetString( '/'
13566: 'LDirSeparator','String').SetString( ':'
13567: 'JXPathDevicePrefix','String').SetString( '\\.\
13568: 'JXPathSeparator','String').SetString( '\
13569: 'JXDirDelimiter','String').SetString( '\
13570: 'JXDirSeparator','String').SetString( ';'
13571: 'JXPathUncPrefix','String').SetString( '\\
13572: 'faNormalFile','LongWord').SetUInt( $00000080);
13573: //faUnixSpecific','').SetString( faSymLink);
13574: JXTCompactPath, '( cpCenter, cpEnd )
13575: _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13576: + 'tCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime : '
13577: + ' TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13578: TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13579: WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13580:
13581: Function jxPathAddSeparator( const Path : string) : string
13582: Function jxPathAddExtension( const Path, Extension : string) : string
13583: Function jxPathAppend( const Path, Append : string) : string
13584: Function jxPathBuildRoot( const Drive : Byte) : string
13585: Function jxPathCanonicalize( const Path : string) : string
13586: Function jxPathCommonPrefix( const Path1, Path2 : string) : Integer
13587: Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13588: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
13589: Function jxPathExtractFileDirFixed( const S : string) : string
13590: Function jxPathExtractFileNameNoExt( const Path : string) : string
13591: Function jxPathExtractPathDepth( const Path : string; Depth : Integer) : string
13592: Function jxPathGetDepth( const Path : string) : Integer
13593: Function jxPathGetLongName( const Path : string) : string
13594: Function jxPathGetShortName( const Path : string) : string
13595: Function jxPathGetLongName( const Path : string) : string
13596: Function jxPathGetShortName( const Path : string) : string
13597: Function jxPathGetRelativePath( Origin, Destination : string) : string
13598: Function jxPathGetTempPath : string
13599: Function jxPathIsAbsolute( const Path : string) : Boolean
13600: Function jxPathIsChild( const Path, Base : string) : Boolean
13601: Function jxPathIsDiskDevice( const Path : string) : Boolean
13602: Function jxPathIsUNC( const Path : string) : Boolean
13603: Function jxPathRemoveSeparator( const Path : string) : string
13604: Function jxPathRemoveExtension( const Path : string) : string
13605: Function jxPathGetPhysicalPath( const LocalizedPath : string) : string
13606: Function jxPathGetLocalizedPath( const PhysicalPath : string) : string
13607: JxTFileListOption, '( flFullNames, flRecursive, flMaskedSubfolders)
13608: JxTFileListOptions, 'set of TFileListOption
13609: JxTJclAttributeMatch, '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13610: TFileHandler, 'Procedure ( const FileName : string)

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13611: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec)
13612: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13613: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
AttributeMatch : TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
FileMatchFunc:TFileMatchFunc):Bool;
13614: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int) : Boolean
13615: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13616: Function jxFileAttributesStr( const FileInfo : TSearchRec) : string
13617: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13618: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
RejectedAttributes : Integer;RequiredAttributes : Integer; Abort : TObject)
13619: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
IncludeHiddenDirects:Boolean; const SubDirectoriesMask : string; Abort : TObject; ResolveSymLinks :
Boolean)
13620: Procedure jxCreateEmptyFile( const FileName : string)
13621: Function jxCloseVolume( var Volume : THandle) : Boolean
13622: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean) : Boolean
13623: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string) : Boolean
13624: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string) : Boolean
13625: Function jxDelTree( const Path : string) : Boolean
13626: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13627: Function jxDiskInDrive( Drive : Char) : Boolean
13628: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean) : Boolean
13629: Function jxFileCreateTemp( var Prefix : string) : THandle
13630: Function jxFileBackup( const FileName : string; Move : Boolean) : Boolean
13631: Function jxFileCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean) : Boolean
13632: Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
13633: Function jxFileExists( const FileName : string) : Boolean
13634: Function jxFileMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean) : Boolean
13635: Function jxFileRestore( const FileName : string) : Boolean
13636: Function jxGetBackupFileName( const FileName : string) : string
13637: Function jxIsBackupFileName( const FileName : string) : Boolean
13638: Function jxFileGetDisplayName( const FileName : string) : string
13639: Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean) : string
13640: Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean) : string
13641: Function jxFileGetSize( const FileName : string) : Int64
13642: Function jxFileGetTempName( const Prefix : string) : string
13643: Function jxFileGetTypeNames( const FileName : string) : string
13644: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string) : string
13645: Function jxForceDirectories( Name : string) : Boolean
13646: Function jxGetDirectorySize( const Path : string) : Int64
13647: Function jxGetDriveTypeStr( const Drive : Char) : string
13648: Function jxGetFileAgeCoherence( const FileName : string) : Boolean
13649: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer)
13650: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
13651: Function jxGetFileInformation( const FileName : string; out FileInfo : TSearchRec) : Boolean;
13652: Function jxGetFileInformation1( const FileName : string) : TSearchRec;
13653: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
ResolveSymLinks:Boolean):Integer
13654: Function jxGetFileLastWrite( const FName : string) : TFileTime;
13655: Function jxGetFileLastWrite1( const FName : string; out LocalTime : TDateTime) : Boolean;
13656: Function jxGetFileLastAccess( const FName : string) : TFileTime;
13657: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime) : Boolean;
13658: Function jxGetFileCreation( const FName : string) : TFileTime;
13659: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime) : Boolean;
13660: Function jxGetFileLastWrite( const FName : string;out TimeStamp:Integer;ResolveSymLinks : Bool):Bool;
13661: Function jxGetFileLastWrite1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13662: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean) : Integer;
13663: Function jxGetFileLastAccess(const FName:string; out TimeStamp:Integer;ResolveSymLinks: Bool): Bool;
13664: Function jxGetFileLastAccess1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13665: Function jxGetFileLastAccess2(const FName:string; ResolveSymLinks:Boolean): Integer;
13666: Function jxGetFileLastAttrChange(const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13667: Function jxGetFileLastAttrChange1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13668: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks:Boolean) : Integer;
13669: Function jxGetModulePath( const Module : HMODULE) : string
13670: Function jxGetSizeOfFile( const FileName : string) : Int64;
13671: Function jxGetSizeOfFile1( const FileInfo : TSearchRec) : Int64;
13672: Function jxGetSizeOfFile2( Handle : THandle) : Int64;
13673: Function jxGetStandardFileInfo( const FileName : string) : TWin32FileAttributeData
13674: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean) : Boolean
13675: Function jxIsRootDirectory( const CanonicFileName : string) : Boolean
13676: Function jxLockVolume( const Volume : string; var Handle : THandle) : Boolean
13677: Function jxOpenVolume( const Drive : Char) : THandle
13678: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime) : Boolean
13679: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime) : Boolean
13680: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime) : Boolean
13681: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime) : Boolean
13682: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime) : Boolean
13683: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime) : Boolean
13684: Procedure jxShredFile( const FileName : string; Times : Integer)
13685: Function jxUnlockVolume( var Handle : THandle) : Boolean
13686: Function jxCreateSymbolicLink( const Name, Target : string) : Boolean
13687: Function jxSymbolicLinkTarget( const Name : string) : string
13688: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )
13689: SIRegister_TJclCustomFileAttrMask(CL);
13690: SIRegister_TJclFileAttributeMask(CL);
13691: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS'
13692: +ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)
13693: TFileSearchOptions', 'set of TFileSearchOption

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13694: TFileSearchTaskID', 'Integer
13695: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearch
13696:   +hTaskID; const Aborted : Boolean)
13697: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )
13698: SIRegister_IJclFileEnumerator(CL);
13699: SIRegister_TJclFileEnumerator(CL);
13700: Function JxFileSearch : IJclFileEnumerator
13701:   JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched,ffPreRelease,ffPrivateBuild, ffSpecialBuild )
13702: JxTFileFlags', 'set of TFileFlag
13703: FindClass('TOBJECT'),'EJclFileVersionInfoError
13704: SIRegister_TJclFileVersionInfo(CL);
13705: Function jxOSIdentToString( const OSIdent : DWORD) : string
13706: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD) : string
13707: Function jxVersionResourceAvailable( const FileName : string) : Boolean
13708:   TFileVersionFormat', '( vfMajorMinor, vfFull )
13709: Function jxFormatVersionString( const HiV, LoV : Word) : string;
13710: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word) : string;
13711: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo;VersionFormat:TFileVersionFormat):str;
13712: //Procedure VersionExtractFileInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13713: //Procedure VersionExtractProductInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,
Revision:Word);
13714: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo) : Boolean
13715: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
NotAvailableText : string) : string
13716: SIRegister_TJclTempFileStream(CL);
13717: FindClass('TOBJECT'),'TJclCustomFileMapping
13718: SIRegister_TJclFileMapView(CL);
13719: TJclFileMappingRoundOffset', '( rvDown, rvUp )
13720: SIRegister_TJclCustomFileMapping(CL);
13721: SIRegister_TJclFileMapping(CL);
13722: SIRegister_TJclSwapFileMapping(CL);
13723: SIRegister_TJclFileMappingStream(CL);
13724: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )
13725: //PPCharArray', '^TPCharArray // will not work
13726: SIRegister_TJclMappedTextReader(CL);
13727: SIRegister_TJclFileMaskComparator(CL);
13728: FindClass('TOBJECT'),'EJclPathError
13729: FindClass('TOBJECT'),'EJclFileUtilsError
13730: FindClass('TOBJECT'),'EJclTempFileStreamError
13731: FindClass('TOBJECT'),'EJclTempFileStreamError
13732: FindClass('TOBJECT'),'EJclFileMappingError
13733: FindClass('TOBJECT'),'EJclFileMapViewError
13734: Function jxPathGetLongName2( const Path : string) : string
13735: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
13736: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string) : Boolean
13737: Function jxWin32BackupFile( const FileName : string; Move : Boolean) : Boolean
13738: Function jxWin32RestoreFile( const FileName : string) : Boolean
13739: Function jxSamePath( const Path1, Path2 : string) : Boolean
13740: Procedure jxPathListAddItems( var List : string; const Items : string)
13741: Procedure jxPathListIncludeItems( var List : string; const Items : string)
13742: Procedure jxPathListDelItems( var List : string; const Items : string)
13743: Procedure jxPathListDelItem( var List : string; const Index : Integer)
13744: Function jxPathListItemCount( const List : string) : Integer
13745: Function jxPathListGetItem( const List : string; const Index : Integer) : string
13746: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string)
13747: Function jxPathListItemIndex( const List, Item : string) : Integer
13748: Function jxParamName(Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string;
13749: Function jxParamValue(Index : Integer; const Separator : string; TrimValue : Boolean) : string;
13750: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13751: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
AllowedPrefixCharacters : string) : Integer
13752: end;
13753:
13754: procedure SIRegister_FileUtil(CL: TPSPascalCompiler);
13755: begin
13756:   'UTF8FileHeader','String').SetString( #Sef#Sbb#Sbf);
13757: Function lCompareFileNames( const Filename1, Filename2 : string) : integer
13758: Function lCompareFileNamesIgnoreCase( const Filename1, Filename2 : string) : integer
13759: Function lCompareFileNames( const Filename1, Filename2 : string; ResolveLinks : boolean) : integer
13760: Function lCompareFileNames(Filename1:PChar;Len1:int;Filename2:PChar;Len2:int;ResolveLinks:boolean):int;
13761: Function lFilenameIsAbsolute( const TheFilename : string) : boolean
13762: Function lFilenameIsWinAbsolute( const TheFilename : string) : boolean
13763: Function lFilenameIsUnixAbsolute( const TheFilename : string) : boolean
13764: Procedure lCheckIfFileIsExecutable( const AFilename : string)
13765: Procedure lCheckIfFileIsSymlink( const AFilename : string)
13766: Function lFileIsReadable( const AFilename : string) : boolean
13767: Function lFileIsWritable( const AFilename : string) : boolean
13768: Function lFileIsText( const AFilename : string) : boolean
13769: Function lFileIsText( const AFilename : string; out FileReadable : boolean) : boolean
13770: Function lFileIsExecutable( const AFilename : string) : boolean
13771: Function lFileIsSymlink( const AFilename : string) : boolean
13772: Function lFileIsHardLink( const AFilename : string) : boolean
13773: Function lFileSize( const Filename : string) : int64;
13774: Function lGetFileDescription( const AFilename : string) : string
13775: Function lReadAllLinks( const Filename : string; ExceptionOnError : boolean) : string
13776: Function lTryReadAllLinks( const Filename : string) : string
13777: Function lDirPathExists( const FileName : string) : Boolean
13778: Function lForceDirectory( DirectoryName : string) : boolean

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13779: Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean) : boolean
13780: Function lProgramDirectory : string
13781: Function lDirectoryIsWritable( const DirectoryName : string) : boolean
13782: Function lExtractFileNameOnly( const AFilename : string) : string
13783: Function lExtractFileNameWithoutExt( const AFilename : string) : string
13784: Function lCompareFileExt( const Filename, Ext : string; CaseSensitive : boolean) : integer;
13785: Function lCompareFileExt( const Filename, Ext : string) : integer;
13786: Function lFilenameIsPascalUnit( const Filename : string) : boolean
13787: Function lAppendPathDelim( const Path : string) : string
13788: Function lChompPathDelim( const Path : string) : string
13789: Function lTrimFilename( const AFilename : string) : string
13790: Function lCleanAndExpandFilename( const Filename : string) : string
13791: Function lCleanAndExpandDirectory( const Filename : string) : string
13792: Function lCreateAbsolutePath( const SearchPath, BaseDirectory : string) : string
13793: Function lCreateRelativePath( const Filename, BaseDirectory : string; UsePointDirectory : boolean;
AlwaysRequireSharedBaseFolder : Boolean) : string
13794: Function lCreateAbsolutePath( const Filename, BaseDirectory : string) : string
13795: Function lFileIsInPath( const Filename, Path : string) : boolean
13796: Function lFileIsInDirectory( const Filename, Directory : string) : boolean
13797:   TSearchFileInPathFlag, '( sffDontSearchInBasePath, sffSearchLoUpCase )
13798:   TSearchFileInPathFlags, 'set of TSearchFileInPathFlag
13799: 'AllDirectoryEntriesMask', 'String').SetString( '*'
13800: Function lGetAllFilesMask : string
13801: Function lGetExeExt : string
13802: Function lSearchFileInPath( const Filename, BasePath, SearchPath, Delimiter : string; Flags :
TSearchFileInPathFlags) : string
13803: Function lSearchAllFilesInPath( const Filename, BasePath, SearchPath, Delimiter:string;Flags :
TSearchFileInPathFlags) : TStringList
13804: Function lFindDiskFilename( const Filename : string) : string
13805: Function lFindDiskFileCaseInsensitive( const Filename : string) : string
13806: Function lFindDefaultExecutablePath( const Executable : string; const BaseDir : string):string
13807: Function lGetDarwinSystemFilename( Filename : string) : string
13808:   SIRegister_TFileIterator(CL);
13809:   TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13810:   TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13811:   TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator)
13812:   SIRegister_TFileSearcher(CL);
13813: Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13814: Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
13815: // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13816: // TCopyFileFlags', 'set of TCopyFileFlag
13817: Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags) : boolean
13818: Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean
13819: Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13820: Function lReadFileToString( const Filename : string) : string
13821: Function lGetTempFilename( const Directory, Prefix : string) : string
13822: {Function NeedRTLAnsi : boolean
13823: Procedure SetNeedRTLAnsi( NewValue : boolean)
13824: Function UTF8ToSys( const s : string) : string
13825: Function SysToUTF8( const s : string) : string
13826: Function ConsoleToUTF8( const s : string) : string
13827: Function UTF8ToConsole( const s : string) : string}
13828: Function FileExistsUTF8( const Filename : string) : boolean
13829: Function FileAgeUTF8( const FileName : string) : Longint
13830: Function DirectoryExistsUTF8( const Directory : string) : Boolean
13831: Function ExpandFileNameUTF8( const FileName : string) : string
13832: Function ExpandUNCFileNameUTF8( const FileName : string) : string
13833: Function ExtractShortPathNameUTF8( const FileName : string) : string
13834: Function FindFirstUTF8( const Path : string; Attr : Longint; out Rslt : TSearchRec) : Longint
13835: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13836: Procedure FindCloseUTF8( var F : TSearchRec)
13837: Function FileSetDateUTF8( const FileName : string; Age : Longint) : Longint
13838: Function FileGetAttrUTF8( const FileName : string) : Longint
13839: Function FileSetAttrUTF8( const Filename : string; Attr : longint) : Longint
13840: Function DeleteFileUTF8( const FileName : string) : Boolean
13841: Function RenameFileUTF8( const OldName, NewName : string) : Boolean
13842: Function FileSearchUTF8( const Name, DirList : string; ImplicitCurrentDir : Boolean) : string
13843: Function FileIsReadOnlyUTF8( const FileName : string) : Boolean
13844: Function GetCurrentDirUTF8 : string
13845: Function SetCurrentDirUTF8( const NewDir : string) : Boolean
13846: Function CreateDirUTF8( const NewDir : string) : Boolean
13847: Function RemoveDirUTF8( const Dir : string) : Boolean
13848: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
13849: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
13850: Function FileCreateUTF8( const FileName : string) : THandle;
13851: Function FileCreateUTF8( const FileName : string; Rights : Cardinal) : THandle;
13852: Function ParamStrUTF8( Param : Integer) : string
13853: Function GetEnvironmentStringUTF8( Index : Integer) : string
13854: Function GetEnvironmentVariableUTF8( const EnvVar : string) : string
13855: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
13856: Function GetAppConfigFileUTF8(Global:Boolean; SubDir:boolean; CreateDir : boolean) : string
13857: Function SysErrorMessageUTF8( ErrorCode : Integer) : string
13858: end;
13859:
13860: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13861: begin
13862:   //VK_F23 = 134;
13863:   //{$EXTERNALSYM VK_F24}
13864:   //VK_F24 = 135;

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13865: TVirtualKeyCode', 'Integer
13866: 'VK_MOUSEWHEELUP', 'integer').SetInt(134);
13867: 'VK_MOUSEWHEELDOWN', 'integer').SetInt(135);
13868: Function gllsKeyDown( c : Char) : Boolean;
13869: Function gllsKeyDown1( vk : TVirtualKeyCode) : Boolean;
13870: Function glKeyPressed( minVkCode : TVirtualKeyCode) : TVirtualKeyCode
13871: Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode) : String
13872: Function glKeyNameToVirtualKeyCode( const keyName : String) : TVirtualKeyCode
13873: Function glCharToVirtualKeyCode( c : Char) : TVirtualKeyCode
13874: Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer)
13875: end;
13876:
13877: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13878: begin
13879:   TGLPoint', 'TPoint
13880:   //PGLPoint', '^TGLPoint // will not work
13881:   TGLRect', 'TRect
13882:   //PGLRect', '^TGLRect // will not work
13883:   TDelphiColor', 'TColor
13884:   TGLPicture', 'TPicture
13885:   TGLGraphic', 'TGraphic
13886:   TGLBitmap', 'TBitmap
13887:   //TGraphicClass', 'class of TGraphic
13888:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13889:   TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
13890:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13891:   +'Button; Shift : TShiftState; X, Y : Integer)
13892:   TGLMouseMoveEvent', 'TMouseMoveEvent
13893:   TGLKeyEvent', 'TKeyEvent
13894:   TGLKeyPressEvent', 'TKeyPressEvent
13895:   EGLOSError', 'EWin32Error
13896:   EGLOSError', 'EWin32Error
13897:   EGLOSError', 'EOSError
13898: 'glsAllFilter', 'string').SetString('All // sAllFilter
13899: Function GLPoint( const x, y : Integer) : TGLPoint
13900: Function GLRGB( const r, g, b : Byte) : TColor
13901: Function GLColorToRGB( color : TColor) : TColor
13902: Function GLGetRValue( rgb : DWORD) : Byte
13903: Function GLGetGValue( rgb : DWORD) : Byte
13904: Function GLGetBValue( rgb : DWORD) : Byte
13905: Procedure GLInitWinColors
13906: Function GLRect( const aLeft, aTop, aRight, aBottom : Integer) : TGLRect
13907: Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer)
13908: Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect)
13909: Procedure GLInformationDlg( const msg : String)
13910: Function GLQuestionDlg( const msg : String) : Boolean
13911: Function GLInputDialog( const aCaption, aPrompt, aDefault : String) : String
13912: Function GLSavePictureDialog( var aFileName : String; const aTitle : String) : Boolean
13913: Function GLOpenPictureDialog( var aFileName : String; const aTitle : String) : Boolean
13914: Function GLApplicationTerminated : Boolean
13915: Procedure GLRaiseLastOSError
13916: Procedure GLFreeAndNil( var anObject: TObject)
13917: Function GLGetDeviceLogicalPixelsX( device : Cardinal) : Integer
13918: Function GLGetCurrentColorDepth : Integer
13919: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat) : Integer
13920: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer) : Pointer
13921: Procedure GLSleep( length : Cardinal)
13922: Procedure GLQueryPerformanceCounter( var val : Int64)
13923: Function GLQueryPerformanceFrequency( var val : Int64) : Boolean
13924: Function GLStartPrecisionTimer : Int64
13925: Function GLPrecisionTimerLap( const precisionTimer : Int64) : Double
13926: Function GLStopPrecisionTimer( const precisionTimer : Int64) : Double
13927: Function GLRDTSC : Int64
13928: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string)
13929: Function GLOKMessageBox( const Text, Caption : string) : Integer
13930: Procedure GLShowHTMLUrl( Url : String)
13931: Procedure GLShowCursor( AShow : boolean)
13932: Procedure GLSetCursorPos( AScreenX, AScreenY : integer)
13933: Procedure GLGetCursorPos( var point : TGLPoint)
13934: Function GLGetScreenWidth : integer
13935: Function GLGetScreenHeight : integer
13936: Function GLGetTickCount : int64
13937: function RemoveSpaces(const str : String) : String;
13938:   TNormalMapSpace', '( nmsObject, nmsTangent )
13939: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList;Colors:TVectorList)
13940: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList)
13941: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals :
TAffineVectorList; Colors : TVectorList)
13942: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
HiTexCoords:TAffineVectorList):TGLBitmap
13943: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
LoTexCoords, Tangents, BiNormals : TAffineVectorList) : TGLBitmap
13944: end;
13945:
13946: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
13947: begin
13948:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
13949:   // PGLStarRecord', '^TGLStarRecord // will not work
13950: Function StarRecordPositionZUp( const starRecord : TGLStarRecord) : TAffineVector

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13951:  Function StarRecordPositionYUp( const starRecord : TGLStarRecord ) : TAffineVector
13952:  Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
13953: end;
13954:
13955:
13956: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
13957: begin
13958:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
13959:   //PAABB', '^TAABB // will not work
13960:   TBSphere', 'record Center : TAffineVector; Radius : single; end
13961:   TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
13962:   TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
13963:   Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
13964:   Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB)
13965:   Procedure SetBB( var c : THmgBoundingBox; const v : TVector)
13966:   Procedure SetAABB( var bb : TAABB; const v : TVector)
13967:   Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix)
13968:   Procedure AABBBTransform( var bb : TAABB; const m : TMatrix)
13969:   Procedure AABBScale( var bb : TAABB; const v : TAffineVector)
13970:   Function BBMinX( const c : THmgBoundingBox ) : Single
13971:   Function BBMaxX( const c : THmgBoundingBox ) : Single
13972:   Function BBMinY( const c : THmgBoundingBox ) : Single
13973:   Function BBMaxY( const c : THmgBoundingBox ) : Single
13974:   Function BBMinZ( const c : THmgBoundingBox ) : Single
13975:   Function BBMaxZ( const c : THmgBoundingBox ) : Single
13976:   Procedure AABBIInclude( var bb : TAABB; const p : TAffineVector)
13977:   Procedure AABBFFromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single)
13978:   Function AABBBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
13979:   Function BBToAABB( const aabb : THmgBoundingBox ) : TAABB
13980:   Function AABBTtoBB( const anAABB : TAABB ) : THmgBoundingBox;
13981:   Function AABBTtoBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox;
13982:   Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector);
13983:   Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector);
13984:   Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
13985:   Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
13986:   Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
13987:   Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
13988:   Function AABBFitsInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
13989:   Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
13990:   Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
13991:   Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
13992:   Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
13993:   Procedure ExtractAABBCorners( const AABB : TAABB; var AABBCorners : TAABBCorners)
13994:   Procedure AABBTtoBSphere( const AABB : TAABB; var BSphere : TBSphere)
13995:   Procedure BSphereToAABB( const BSphere : TBSphere; var AABB : TAABB);
13996:   Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
13997:   Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
13998:   Function AABBBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
13999:   Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains
14000:   Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains
14001:   Function AABBBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains
14002:   Function PlaneContainsBSphere( const Location,Normal:TAffineVector;const
testBSphere:TBSphere):TSpaceContains
14003:   Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains
14004:   Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14005:   Function ClipToAABB( const v : TAffineVector; const AABB : TAABB ) : TAffineVector
14006:   Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean
14007:   Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single)
14008:   Function AABBTtoClipRect(const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
viewportSizeY:Int):TClipRect
14009: end;
14010:
14011: procedure SIRegister_GeometryCoordinates(CL: TPSPascalCompiler);
14012: begin
14013:   Procedure Cylindrical_Cartesian( const r, theta, z1 : single; var x, y, z : single);
14014:   Procedure Cylindrical_Cartesian1( const r, theta, z1 : double; var x, y, z : double);
14015:   Procedure Cylindrical_Cartesian2( const r,theta,z1 : single; var x, y, z : single; var ierr : integer);
14016:   Procedure Cylindrical_Cartesian3( const r,theta,z1 : double; var x, y, z : double; var ierr : integer);
14017:   Procedure Cartesian_Cylindrical( const x, y, z1 : single; var r, theta, z : single);
14018:   Procedure Cartesian_Cylindrical1( const x, y, z1 : double; var r, theta, z : double);
14019:   Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single);
14020:   Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double);
14021:   Procedure Spherical_Cartesian2( const r,theta, phi : single; var x, y, z : single; var ierr : integer);
14022:   Procedure Spherical_Cartesian3( const r,theta, phi : double; var x, y, z : double; var ierr : integer);
14023:   Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single);
14024:   Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single);
14025:   Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double);
14026:   Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14027:   Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14028:   Procedure ProlateSpheroidal_Cartesian2(const xi,eta,phi,a:single;var x,y,z:single;var ierr: integer);
14029:   Procedure ProlateSpheroidal_Cartesian3(const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer);
14030:   Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14031:   Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14032:   Procedure OblateSpheroidal_Cartesian2(const xi,eta,phi,a:single; var x,y,z: single;var ierr:integer);
14033:   Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double; var x,y,z:double;var ierr:integer);
14034:   Procedure BipolarCylindrical_Cartesian( const u, v, z1, a : single; var x, y, z : single);
14035:   Procedure BipolarCylindrical_Cartesian1(const u, v, z1, a : double; var x, y, z : double);
14036:   Procedure BipolarCylindrical_Cartesian2(const u,v,z1,a: single;var x,y,z:single; var ierr : integer);
14037:   Procedure BipolarCylindrical_Cartesian3(const u,v,z1,a: double;var x,y,z:double; var ierr : integer);

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14038: end;
14039:
14040: procedure SIRegister_VectorGeometry(CL: TPSPascalCompiler);
14041: begin
14042:   'EPSILON','Single').setExtended( 1e-40);
14043:   'EPSILON2','Single').setExtended( 1e-30); }
14044: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14045:   + 'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14046: THmgPlane', 'TVector
14047: TDoubleHmgPlane', 'THomogeneousDblVector
14048: {TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14049:   + 'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14050:   + ', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW }}
14051: TSingleArray', 'array of Single
14052: TTransformations', 'array [0..15] of Single)
14053: TPackedRotationMatrix', 'array [0..2] of Smallint)
14054: TVertex', 'TAffineVector
14055: //TVectorGL', 'THomogeneousFltVector
14056: //TMatrixGL', 'THomogeneousFltMatrix
14057: // TPackedRotationMatrix = array [0..2] of SmallInt;
14058: Function glTexPointMake( const s, t : Single) : TTexPoint
14059: Function glAffineVectorMake( const x, y, z : Single) : TAffineVector;
14060: Function glAffineVectorMakel( const v : TVectorGL) : TAffineVector;
14061: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single);
14062: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single);
14063: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL);
14064: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector);
14065: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector);
14066: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL);
14067: Function glVectorMake( const v : TAffineVector; w : Single) : TVectorGL;
14068: Function glVectorMakel( const x, y, z : Single; w : Single) : TVectorGL;
14069: Function glPointMake( const x, y, z : Single) : TVectorGL;
14070: Function glPointMakel( const v : TAffineVector) : TVectorGL;
14071: Function glPointMake2( const v : TVectorGL) : TVectorGL;
14072: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single);
14073: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single);
14074: Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL);
14075: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single);
14076: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector);
14077: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL);
14078: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single);
14079: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single);
14080: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector);
14081: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL);
14082: Procedure glRstVector( var v : TAffineVector);
14083: Procedure glRstVector1( var v : TVectorGL);
14084: Function glVectorAdd( const v1, v2 : TAffineVector) : TAffineVector;
14085: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector);
14086: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector);
14087: Function glVectorAdd3( const v1, v2 : TVectorGL) : TVectorGL;
14088: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL);
14089: Function glVectorAdd5( const v : TAffineVector; const f : Single) : TAffineVector;
14090: Function glVectorAdd6( const v : TVectorGL; const f : Single) : TVectorGL;
14091: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector);
14092: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL);
14093: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL);
14094: Procedure glAddVector10( var v : TAffineVector; const f : Single);
14095: Procedure glAddVector11( var v : TVectorGL; const f : Single);
14096: //Procedure TexPointArrayAdd(const src:PTexPointArray;const delta:TTexPoint;const
nb:Int;dest:PTexPointArray);
14097: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray;const delta:TTexPoint;const
nb:Integer;const scale: TTexPoint; dest : PTexPointArray);
14098: //Procedure VectorArrayAdd(const src:PAffineVectorArray;const delta:TAffineVector;const nb:Integer;dest:
PAffineVectorArray);
14099: Function glVectorSubtract( const V1, V2 : TAffineVector) : TAffineVector;
14100: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector);
14101: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL);
14102: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL);
14103: Function glVectorSubtract4( const V1, V2 : TVectorGL) : TVectorGL;
14104: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL);
14105: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector);
14106: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single) : TAffineVector;
14107: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single) : TVectorGL;
14108: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector);
14109: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL);
14110: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single);
14111: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat);
14112: Function glTexPointCombine( const t1, t2 : TTexPoint; f1, f2 : Single) : TTexPoint
14113: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single) : TAffineVector;
14114: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single) : TAffineVector;
14115: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector);
14116: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single);
14117: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single);
14118: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single) : TVectorGL;
14119: Function glVectorCombine8( const V1 : TVectorGL;const V2: TAffineVector; const F1,F2:Single): TVectorGL;
14120: Procedure glVectorCombine9( const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL);
14121: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL);
14122: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL);
14123: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single) : TVectorGL;

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14124: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL);
14125: Function glVectorDotProduct( const V1, V2 : TAffineVector) : Single;
14126: Function glVectorDotProduct1( const V1, V2 : TVectorGL) : Single;
14127: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector) : Single;
14128: Function glPointProject( const p, origin, direction : TAffineVector) : Single;
14129: Function glPointProject1( const p, origin, direction : TVectorGL) : Single;
14130: Function glVectorCrossProduct( const V1, V2 : TAffineVector) : TAffineVector;
14131: Function glVectorCrossProduct1( const V1, V2 : TVectorGL) : TVectorGL;
14132: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL);
14133: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL);
14134: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector);
14135: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector);
14136: Function glLerp( const start, stop, t : Single) : Single
14137: Function glAngleLerp( start, stop, t : Single) : Single
14138: Function glDistanceBetweenAngles( angle1, angle2 : Single) : Single
14139: Function glTexPointLerp( const t1, t2 : TTexPoint; t : Single) : TTexPoint;
14140: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14141: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector);
14142: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single) : TVectorGL;
14143: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL);
14144: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14145: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single) : TAffineVector;
14146: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray);
14147: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest :
    PAffineVectorArray);
14148: Function glVectorLength( const x, y : Single) : Single;
14149: Function glVectorLength1( const x, y, z : Single) : Single;
14150: Function glVectorLength2( const v : TAffineVector) : Single;
14151: Function glVectorLength3( const v : TVectorGL) : Single;
14152: Function glVectorLength4( const v : array of Single) : Single;
14153: Function glVectorNorm( const x, y : Single) : Single;
14154: Function glVectorNorm1( const v : TAffineVector) : Single;
14155: Function glVectorNorm2( const v : TVectorGL) : Single;
14156: Function glVectorNorm3( var V : array of Single) : Single;
14157: Procedure glNormalizeVector( var v : TAffineVector);
14158: Procedure glNormalizeVector1( var v : TVectorGL);
14159: Function glVectorNormalize( const v : TAffineVector) : TAffineVector;
14160: Function glVectorNormalize1( const v : TVectorGL) : TVectorGL;
14161: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer);
14162: Function glVectorAngleCosine( const V1, V2 : TAffineVector) : Single
14163: Function glVectorNegate( const v : TAffineVector) : TAffineVector;
14164: Function glVectorNegate1( const v : TVectorGL) : TVectorGL;
14165: Procedure glNegateVector( var V : TAffineVector);
14166: Procedure glNegateVector2( var V : TVectorGL);
14167: Procedure glNegateVector3( var V : array of Single);
14168: Procedure glScaleVector( var v : TAffineVector; factor : Single);
14169: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector);
14170: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14171: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14172: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14173: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14174: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14175: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);
14176: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14177: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14178: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14179: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14180: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14181: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14182: Function glVectorIsNull1( const v : TAffineVector) : Boolean;
14183: Function glVectorSpacing( const v1, v2 : TTexPoint) : Single;
14184: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14185: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14186: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14187: Function glVectorDistance1( const v1, v2 : TVectorGL) : Single;
14188: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14189: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14190: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector
14191: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector
14192: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);
14193: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14194: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single)
14195: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;
14196: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single) : TAffineVector;
14197: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector);
14198: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single) : TAffineVector;
14199: Procedure glAbsVector( var v : TVectorGL);
14200: Procedure glAbsVector1( var v : TAffineVector);
14201: Function glVectorAbs( const v : TVectorGL) : TVectorGL;
14202: Function glVectorAbs1( const v : TAffineVector) : TAffineVector;
14203: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL);
14204: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL);
14205: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix);
14206: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL);
14207: Function glCreateScaleMatrix( const v : TAffineVector) : TMatrixGL;
14208: Function glCreateScaleMatrix1( const v : TVectorGL) : TMatrixGL;
14209: Function glCreateTranslationMatrix( const V : TAffineVector) : TMatrixGL;
14210: Function glCreateTranslationMatrix1( const V : TVectorGL) : TMatrixGL;
14211: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL) : TMatrixGL;

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14212: Function glCreateRotationMatrixX( const sine, cosine : Single) : TMatrixGL;
14213: Function glCreateRotationMatrixXl( const angle : Single) : TMatrixGL;
14214: Function glCreateRotationMatrixY( const sine, cosine : Single) : TMatrixGL;
14215: Function glCreateRotationMatrixYl( const angle : Single) : TMatrixGL;
14216: Function glCreateRotationMatrixZ( const sine, cosine : Single) : TMatrixGL;
14217: Function glCreateRotationMatrixZl( const angle : Single) : TMatrixGL;
14218: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single) : TMatrixGL;
14219: Function glCreateRotationMatrixl( const anAxis : TVectorGL; angle : Single) : TMatrixGL;
14220: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix
14221: Function glMatrixMultiply( const M1, M2 : TAffineMatrix) : TAffineMatrix;
14222: Function glMatrixMultiplyl( const M1, M2 : TMatrixGL) : TMatrixGL;
14223: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL);
14224: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL) : TVectorGL;
14225: Function glCreateRotationMatrixl( const V : TVectorGL; const M : TAffineMatrix) : TVectorGL;
14226: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL) : TAffineVector;
14227: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix) : TAffineVector;
14228: Function glMatrixDeterminant( const M : TAffineMatrix) : Single;
14229: Function glMatrixDeterminantl( const M : TMatrixGL) : Single;
14230: Procedure glAdjointMatrix( var M : TMatrixGL);
14231: Procedure glAdjointMatrixl( var M : TAffineMatrix);
14232: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single);
14233: Procedure glScaleMatrixl( var M : TMatrixGL; const factor : Single);
14234: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector);
14235: Procedure glTranslateMatrixl( var M : TMatrixGL; const v : TVectorGL);
14236: Procedure glNormalizeMatrix( var M : TMatrixGL);
14237: Procedure glTransposeMatrix( var M : TAffineMatrix);
14238: Procedure glTransposeMatrixl( var M : TMatrixGL);
14239: Procedure glInvertMatrix( var M : TMatrixGL);
14240: Procedure glInvertMatrixl( var M : TAffineMatrix);
14241: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL) : TMatrixGL;
14242: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations) : Boolean;
14243: Function glPlaneMake( const p1, p2, p3 : TAffineVector) : THmgPlane;
14244: Function glPlaneMake1( const p1, p2, p3 : TVectorGL) : THmgPlane;
14245: Function glPlaneMake2( const point, normal : TAffineVector) : THmgPlane;
14246: Function glPlaneMake3( const point, normal : TVectorGL) : THmgPlane;
14247: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane);
14248: Procedure glNormalizePlane( var plane : THmgPlane);
14249: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector) : Single;
14250: Function glPlaneEvaluatePointl( const plane : THmgPlane; const point : TVectorGL) : Single;
14251: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector) : TAffineVector;
14252: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector);
14253: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector);
14254: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL) : Boolean;
14255: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector) : Boolean;
14256: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL) : Single;
14257: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector) : Single;
14258: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector
14259: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector) : single
14260: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector) : TAffineVector
14261: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector) : Single
14262: Procedure SgsegmentSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
Segment0Closest, Segment1Closest : TAffineVector)
14263: Function glSegmentSegmentDistance( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector) : single
14264: TEulerOrder', '( eulXYZ, eulXZY, eulYZX, eulZYX, eulZXY, eulZYX)
14265: Function glQuaternionMake( const Imag : array of Single; Real : Single) : TQuaternion
14266: Function glQuaternionConjugate( const Q : TQuaternion) : TQuaternion
14267: Function glQuaternionMagnitude( const Q : TQuaternion) : Single
14268: Procedure glNormalizeQuaternion( var Q : TQuaternion)
14269: Function glQuaternionFromPoints( const V1, V2 : TAffineVector) : TQuaternion
14270: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector)
14271: Function glQuaternionFromMatrix( const mat : TMatrixGL) : TQuaternion
14272: Function glQuaternionToMatrix( quat : TQuaternion) : TMatrixGL
14273: Function glQuaternionToAffineMatrix( quat : TQuaternion) : TAffineMatrix
14274: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector) : TQuaternion
14275: Function glQuaternionFromRollPitchYaw( const r, p, y : Single) : TQuaternion
14276: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder) : TQuaternion
14277: Function glQuaternionMultiply( const qL, qR : TQuaternion) : TQuaternion
14278: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single) : TQuaternion;
14279: Function glQuaternionSlerp1( const source, dest : TQuaternion; const t : Single) : TQuaternion;
14280: Function glLnXP1( X : Extended) : Extended
14281: Function glLog10( X : Extended) : Extended
14282: Function glLog2( X : Extended) : Extended;
14283: Function glLog21( X : Single) : Single;
14284: Function glLogN( Base, X : Extended) : Extended
14285: Function glIntPower( Base : Extended; Exponent : Integer) : Extended
14286: Function glPower( const Base, Exponent : Single) : Single;
14287: Function glPower1( Base : Single; Exponent : Integer) : Single;
14288: Function glDegToRad( const Degrees : Extended) : Extended;
14289: Function glDegToRad1( const Degrees : Single) : Single;
14290: Function glRadToDeg( const Radians : Extended) : Extended;
14291: Function glRadToDeg1( const Radians : Single) : Single;
14292: Function glNormalizeAngle( angle : Single) : Single
14293: Function glNormalizeDegAngle( angle : Single) : Single
14294: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended);
14295: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double);
14296: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single);
14297: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended);
14298: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double);
14299: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single);

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14300: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single)
14301: Function glArcCos( const X : Extended) : Extended;
14302: Function glArcCos1( const x : Single) : Single;
14303: Function glArcSin( const X : Extended) : Extended;
14304: Function glArcSin1( const X : Single) : Single;
14305: Function glArcTan21( const Y, X : Extended) : Extended;
14306: Function glArcTan21( const Y, X : Single) : Single;
14307: Function glFastArcTan2( y, x : Single) : Single
14308: Function glTan( const X : Extended) : Extended;
14309: Function glTan1( const X : Single) : Single;
14310: Function glCoTan( const X : Extended) : Extended;
14311: Function glCoTan1( const X : Single) : Single;
14312: Function glSinh( const x : Single) : Single;
14313: Function glSinh1( const x : Double) : Double;
14314: Function glCosh( const x : Single) : Single;
14315: Function glCosh1( const x : Double) : Double;
14316: Function glRSqrt( v : Single) : Single
14317: Function glRLength( x, y : Single) : Single
14318: Function glISqrt( i : Integer) : Integer
14319: Function glILength( x, y : Integer) : Integer;
14320: Function glILength1( x, y, z : Integer) : Integer;
14321: Procedure glRegisterBasedExp
14322: Procedure glRandomPointOnSphere( var p : TAffineVector)
14323: Function glRoundInt( v : Single) : Single;
14324: Function glRoundInt1( v : Extended) : Extended;
14325: Function glTrunc( v : Single) : Integer;
14326: Function glTrunc64( v : Extended) : Int64;
14327: Function glInt( v : Single) : Single;
14328: Function glInt1( v : Extended) : Extended;
14329: Function glFrac( v : Single) : Single;
14330: Function glFrac1( v : Extended) : Extended;
14331: Function glRound( v : Single) : Integer;
14332: Function glRound64( v : Single) : Int64;
14333: Function glRound641( v : Extended) : Int64;
14334: Function glTrunc( X : Extended) : Int64
14335: Function glRound( X : Extended) : Int64
14336: Function glFrac( X : Extended) : Extended
14337: Function glCeil( v : Single) : Integer;
14338: Function glCeil64( v : Extended) : Int64;
14339: Function glFloor( v : Single) : Integer;
14340: Function glFloor64( v : Extended) : Int64;
14341: Function glScaleAndRound( i : Integer; var s : Single) : Integer
14342: Function glSign( x : Single) : Integer
14343: Function glIsInRange( const x, a, b : Single) : Boolean;
14344: Function glIsInRangel( const x, a, b : Double) : Boolean;
14345: Function glIsInCube( const p, d : TAffineVector) : Boolean;
14346: Function glIsInCubel( const p, d : TVectorGL) : Boolean;
14347: //Function MinFloat( values : PSingleArray; nbItems : Integer) : Single;
14348: //Function MinFloat1( values : PDoubleArray; nbItems : Integer) : Double;
14349: //Function MinFloat2( values : PExtendedArray; nbItems : Integer) : Extended;
14350: Function glMinFloat3( const v1, v2 : Single) : Single;
14351: Function glMinFloat4( const v : array of Single) : Single;
14352: Function glMinFloat5( const v1, v2 : Double) : Double;
14353: Function glMinFloat6( const v1, v2 : Extended) : Extended;
14354: Function glMinFloat7( const v1, v2, v3 : Single) : Single;
14355: Function glMinFloat8( const v1, v2, v3 : Double) : Double;
14356: Function glMinFloat9( const v1, v2, v3 : Extended) : Extended;
14357: //Function MaxFloat10( values : PSingleArray; nbItems : Integer) : Single;
14358: //Function MaxFloat( values : PDoubleArray; nbItems : Integer) : Double;
14359: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer) : Extended;
14360: Function glMaxFloat2( const v : array of Single) : Single;
14361: Function glMaxFloat3( const v1, v2 : Single) : Single;
14362: Function glMaxFloat4( const v1, v2 : Double) : Double;
14363: Function glMaxFloat5( const v1, v2 : Extended) : Extended;
14364: Function glMaxFloat6( const v1, v2, v3 : Single) : Single;
14365: Function glMaxFloat7( const v1, v2, v3 : Double) : Double;
14366: Function glMaxFloat8( const v1, v2, v3 : Extended) : Extended;
14367: Function glMinInteger9( const v1, v2 : Integer) : Integer;
14368: Function glMinInteger( const v1, v2 : Cardinal) : Cardinal;
14369: Function glMaxInteger( const v1, v2 : Integer) : Integer;
14370: Function glMaxInteger1( const v1, v2 : Cardinal) : Cardinal;
14371: Function glTriangleArea( const p1, p2, p3 : TAffineVector) : Single;
14372: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer) : Single;
14373: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector) : Single;
14374: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer) : Single;
14375: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single);
14376: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single);
14377: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single);
14378: Procedure glOffsetFloatArray1( var values : array of Single; delta : Single);
14379: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer);
14380: Function glMaxXYZComponent( const v : TVectorGL) : Single;
14381: Function glMaxXYZComponent1( const v : TAffineVector) : single;
14382: Function glMinXYZComponent( const v : TVectorGL) : Single;
14383: Function glMinXYZComponent1( const v : TAffineVector) : single;
14384: Function glMaxAbsXYZComponent( v : TVectorGL) : Single
14385: Function glMinAbsXYZComponent( v : TVectorGL) : Single
14386: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL);
14387: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector);
14388: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL);

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14389: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector);
14390: Procedure glSortArrayAscending( var a : array of Extended)
14391: Function glClampValue( const aValue, aMin, aMax : Single) : Single;
14392: Function glClampValue1( const aValue, aMin : Single) : Single;
14393: Function glGeometryOptimizationMode : String
14394: Procedure glBeginFPUOnlySection
14395: Procedure glEndFPUOnlySection
14396: Function glConvertRotation( const Angles : TAffineVector) : TVectorGL
14397: Function glMakeAffineDblVector( var v : array of Double) : TAffineDblVector
14398: Function glMakeDblVector( var v : array of Double) : THomogeneousDblVector
14399: Function glVectorAffineDblToFlt( const v : TAffineDblVector) : TAffineVector
14400: Function glVectorDblToFlt( const v : THomogeneousDblVector) : THomogeneousVector
14401: Function glVectorAffineFltToDbl( const v : TAffineVector) : TAffineDblVector
14402: Function glVectorFltToDbl( const v : TVectorGL) : THomogeneousDblVector
14403: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single) : Boolean
14404: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
14405: Function glTurn( const Matrix : TMatrixGL; angle : Single) : TMatrixGL;
14406: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14407: Function glPitch( const Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
14408: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14409: Function glRoll( const Matrix: TMatrixGL; Angle : Single) : TMatrixGL;
14410: Function glRoll1( const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14411: Function glRayCastMinDistToPoint( const rayStart, rayVector: TVectorGL;const point:TVectorGL):Single
14412: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const
sphereCenter:TVectorGL;const sphereRadius : Single) : Boolean;
14413: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
const sphereRadius : Single; var i1, i2 : TVectorGL) : Integer;
14414: Function glSphereVisibleRadius( distance, radius : Single) : Single
14415: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL) : TFrustum
14416: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci :
TRenderContextClippingInfo) : Boolean;
14417: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci :
TRenderContextClippingInfo) : Boolean;
14418: Function glIsVolumeClipped2(const min,max:TAffineVector;const rcci : TRenderContextClippingInfo) : Bool;
14419: Function glIsVolumeClipped3(const objPos:TAffineVector;const objRadius:Single;const
Frustum:TFrustum):Bool;
14420: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL) : TMatrixGL
14421: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL) : TMatrixGL
14422: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector) : TMatrixGL
14423: Function glPackRotationMatrix( const mat : TMatrixGL) : TPackedRotationMatrix
14424: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix) : TMatrixGL
14425: 'cPI','Single').setExtended( 3.141592654);
14426: 'cPIdiv180','Single').setExtended( 0.017453292);
14427: 'c180divPI','Single').setExtended( 57.29577951);
14428: 'c2PI','Single').setExtended( 6.283185307);
14429: 'cPIdiv2','Single').setExtended( 1.570796326);
14430: 'cPIdiv4','Single').setExtended( 0.785398163);
14431: 'c3PIdiv4','Single').setExtended( 2.35619449);
14432: 'cInv2PI','Single').setExtended( 1 / 6.283185307);
14433: 'cInv360','Single').setExtended( 1 / 360);
14434: 'c180','Single').setExtended( 180);
14435: 'c360','Single').setExtended( 360);
14436: 'cOneHalf','Single').setExtended( 0.5);
14437: 'cLn10','Single').setExtended( 2.302585093);
14438: {'MinSingle','Extended').setExtended( 1.5e-45);
14439: 'MaxSingle','Extended').setExtended( 3.4e+38);
14440: 'MinDouble','Extended').setExtended( 5.0e-324);
14441: 'MaxDouble','Extended').setExtended( 1.7e+308);
14442: 'MinExtended','Extended').setExtended( 3.4e-4932);
14443: 'MaxExtended','Extended').setExtended( 1.1e+4932);
14444: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18);
14445: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18);}
14446: end;
14447:
14448: procedure SIRegister_GLVectorFileObjects(CL: TPSPascalCompiler);
14449: begin
14450:   CL.AddClassN(CL.FindClass('TOBJECT'),'TMeshObjectList
14451:   CL.AddClassN(CL.FindClass('TOBJECT'),'TFaceGroups
14452:   TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14453:   TMeshAutoCenterings', 'set of TMeshAutoCentering
14454:   TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14455:   SIRegister_TBaseMeshObject(CL);
14456:   CL.AddClassN(CL.FindClass('TOBJECT'),'TSkeletonFrameList
14457:   TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14458:   SIRegister_TSkeletonFrame(CL);
14459:   SIRegister_TSkeletonFrameList(CL);
14460:   CL.AddClassN(CL.FindClass('TOBJECT'),'TSkeleton
14461:   CL.AddClassN(CL.FindClass('TOBJECT'),'TSkeletonBone
14462:   SIRegister_TSkeletonBoneList(CL);
14463:   SIRegister_TSkeletonRootBoneList(CL);
14464:   SIRegister_TSkeletonBone(CL);
14465:   CL.AddClassN(CL.FindClass('TOBJECT'),'TSkeletonColliderList
14466:   SIRegister_TSkeletonCollider(CL);
14467:   SIRegister_TSkeletonColliderList(CL);
14468:   CL.AddClassN(CL.FindClass('TOBJECT'),'TGLBaseMesh
14469:   TBlendedLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14470:   + 'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14471:   + 'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14472:   + 'QuaternionList; end

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14473: SIRegister_TSkeleton(CL);
14474: TMeshObjectRenderingOption', '( moroGroupByMaterial )
14475: TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14476: SIRegister_TMeshObject(CL);
14477: SIRegister_TMeshObjectList(CL);
14478: //TMeshObjectListClass', 'class of TMeshObjectList
14479: CL.AddClassN(CL.FindClass('TOBJECT'),'TMeshMorphTargetList
14480: SIRegister_TMeshMorphTarget(CL);
14481: SIRegister_TMeshMorphTargetList(CL);
14482: SIRegister_TMorphableMeshObject(CL);
14483: TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14484: //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not work
14485: //PVerticesBoneWeights', 'TVerticesBoneWeights // will not work
14486: TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14487: SIRegister_TSkeletonMeshObject(CL);
14488: SIRegister_TFaceGroup(CL);
14489: TFaceGroupMeshMode', '( fgmTriangles, fgmTriangleStrip, fgmFl
14490: +atTriangles, fgmTriangleFan, fgmQuads )
14491: SIRegister_TFGVertexIndexList(CL);
14492: SIRegister_TFGVertexNormalTexIndexList(CL);
14493: SIRegister_TFGIndexTexCoordList(CL);
14494: SIRegister_TFaceGroups(CL);
14495: TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14496: SIRegister_TVectorFile(CL);
14497: //TVectorFileClass', 'class of TVectorFile
14498: SIRegister_TGLGLSMVectorFile(CL);
14499: SIRegister_TGLBaseMesh(CL);
14500: SIRegister_TGLFreeForm(CL);
14501: TGLActorOption', '( aoSkeletonNormalizeNormals )
14502: TGLActorOptions', 'set of TGLActorOption
14503: 'cDefaultGLActorOptions', 'LongInt'.Value.ts32:= ord(aoSkeletonNormalizeNormals);
14504: CL.AddClassN(CL.FindClass('TOBJECT'),'TGLActor
14505: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14506: SIRegister_TActorAnimation(CL);
14507: TActorAnimationName', 'String
14508: SIRegister_TActorAnimations(CL);
14509: SIRegister_TGLBaseAnimationController(CL);
14510: SIRegister_TGLAnimationController(CL);
14511: TActorFrameInterpolation', '( afpNone, afpLinear )
14512: TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounc
14513: +eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14514: SIRegister_TGLActor(CL);
14515: SIRegister_TVectorFileFormat(CL);
14516: SIRegister_TVectorFileFormatsList(CL);
14517: CL.AddClassN(CL.FindClass('TOBJECT'),'EInvalidVectorFile
14518: Function GetVectorFileFormats : TVectorFileFormatsList
14519: Function VectorFileFormatsFilter : String
14520: Function VectorFileFormatsSaveFilter : String
14521: Function VectorFileFormatExtensionByIndex( index : Integer) : String
14522: Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass)
14523: Procedure UnregisterVectorFileClass( aClass : TVectorFileClass)
14524: end;
14525:
14526: procedure SIRegister_AxCtrls(CL: TPSPascalCompiler);
14527: begin
14528: 'Class_DColorPropPage', 'TGUID').SetString( '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14529: 'Class_DFontPropPage', 'TGUID').SetString( '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14530: 'Class_DPicturePropPage', 'TGUID').SetString( '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14531: 'Class_DStringPropPage', 'TGUID').SetString( '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14532: SIRegister_TOLEStream(CL);
14533: CL.AddClassN(CL.FindClass('TOBJECT'),'TConnectionPoints
14534: TConnectionKind', '( ckSingle, ckMulti )
14535: SIRegister_TConnectionPoint(CL);
14536: SIRegister_TConnectionPoints(CL);
14537: TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14538: CL.AddClassN(CL.FindClass('TOBJECT'),'TActiveXControlFactory
14539: SIRegister_TActiveXControl(CL);
14540: //TActiveXControlClass', 'class of TActiveXControl
14541: SIRegister_TActiveXControlFactory(CL);
14542: SIRegister_TActiveFormControl(CL);
14543: SIRegister_TActiveForm(CL);
14544: //TActiveFormClass', 'class of TActiveForm
14545: SIRegister_TActiveFormFactory(CL);
14546: CL.AddClassN(CL.FindClass('TOBJECT'),'TPropertyPageImpl
14547: SIRegister_TPropertyPage(CL);
14548: //TPropertyPageClass', 'class of TPropertyPage
14549: SIRegister_TPropertyPageImpl(CL);
14550: SIRegister_TActiveXPropertyPage(CL);
14551: SIRegister_TActiveXPropertyPageFactory(CL);
14552: SIRegister_TCustomAdapter(CL);
14553: SIRegister_TAdapterNotifier(CL);
14554: SIRegister_IFontAccess(CL);
14555: SIRegister_TFontAdapter(CL);
14556: SIRegister_IPictureAccess(CL);
14557: SIRegister_TPictureAdapter(CL);
14558: SIRegister_TOLEGraphic(CL);
14559: SIRegister_TStringsAdapter(CL);
14560: SIRegister_TReflectorWindow(CL);
14561: Procedure EnumDispatchProperties(Dispatch: IDispatch; PropType: TGUID; VTCode: Int; PropList: TStrings);

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14562: Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14563: Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14564: Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14565: Procedure SetOlePicture( Picture : TPicture; OlePicture : IPictureDisp)
14566: Procedure GetOleStrings( Strings : TStrings; var OleStrings : IStrings)
14567: Procedure SetOleStrings( Strings : TStrings; OleStrings : IStrings)
14568: Function ParkingWindow : HWND
14569: end;
14570:
14571:
14572: Functions_max hex in the box maXbox
14573: functionslist.txt
14574: FunctionsList1 3.9.9.86/88
14575:
14576: *****
14577: Procedure
14578: PROCEDURE SIZE 6792 6310 5971 4438 3797 3600 3385 3296 2883 2255 (2065) (1854)
14579: Procedure *****Now the Procedure list*****
14580: Procedure ( ACol, ARow : Integer; Items : TStrings)
14581: Procedure ( Agg : TAggregate)
14582: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
14583: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
14584: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
14585: Procedure ( ASender : TObject; const ABytes : Integer)
14586: Procedure ( ASender : TObject; VStream : TStream)
14587: Procedure ( AThread : TIdThread)
14588: Procedure ( AWebModule : TComponent)
14589: Procedure ( Column : TColumn)
14590: Procedure ( const AUsername : String; const APassword : String; AAuthenticationResult : Boolean)
14591: Procedure ( const iStart : integer; const sText : string)
14592: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
14593: Procedure ( Database : TDatabase; LoginParams : TStrings)
14594: Procedure (DataSet:TCustomClientDataSet;E:EREconcileError;UpdateKind:TUpdateKind;var Action:
TReconcileAction)
14595: Procedure ( DATASET : TDATASET)
14596: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction)
14597: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION)
14598: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
14599: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
14600: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)
14601: Procedure ( Done : Integer)
14602: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
14603: Procedure (HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
14604: Procedure
(HeaderControl:TCustomHeaderControl;Section:THeaderSection;Width:Integer;State:TSectionTrackState)
14605: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
14606: Procedure (HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
14607: Procedure (HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
14608: Procedure (Sender: TCustomListView;const ARect: TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
14609: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
14610: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState)
14611: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
14612: Procedure ( SENDER : TFIELD; const TEXT : String)
14613: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : BOOLEAN)
14614: Procedure ( Sender : TIdTelnet; const Buffer : String)
14615: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
14616: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : BOOLEAN)
14617: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
14618: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : INTEGER)
14619: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)
14620: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
14621: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
14622: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string)
14623: Procedure ( Sender : TObject; Button : TMPBtnType)
14624: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
14625: Procedure ( Sender : TObject; Button : TUDBtnType)
14626: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
14627: Procedure ( Sender : TObject; ClientSocket : TServerClientWinSocket; var SocketThread : TServerClientThread)
14628: Procedure ( Sender : TObject; Column : TListColumn)
14629: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
14630: Procedure ( Sender : TObject; Connecting : Boolean)
14631: Procedure (Sender:TObject;const PapSize:SmallInt;const Orient:TPrinterOrient;const PageTy:TPageTy;var
DoneDrawing:Bool
14632: Procedure (Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
14633: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
14634: Procedure (Sender: TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
14635: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
14636: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
14637: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
14638: Procedure ( Sender : TObject; Index : LongInt)
14639: Procedure ( Sender : TObject; Item : TListItem)
14640: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
14641: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
14642: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
14643: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
14644: Procedure ( Sender : TObject; Item : TListItem; var S : string)
14645: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
14646: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
14647: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)

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14648: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
14649: Procedure ( Sender : TObject; Node : TTreeNode)
14650: Procedure ( Sender : TObject; Node : TTreeNode; var AllowChange : Boolean)
14651: Procedure ( Sender : TObject; Node : TTreeNode; var AllowCollapse : Boolean)
14652: Procedure ( Sender : TObject; Node : TTreeNode; var AllowEdit : Boolean)
14653: Procedure ( Sender : TObject; Node : TTreeNode; var AllowExpansion : Boolean)
14654: Procedure ( Sender : TObject; Node : TTreeNode; var S : string)
14655: Procedure ( Sender : TObject; Node1, Node2 : TTreeNode; Data : Integer; var Compare : Integer)
14656: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
14657: Procedure ( Sender : TObject; Rect : TRect)
14658: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
14659: Procedure (Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
14660: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
14661: Procedure (Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
14662: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
14663: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
14664: Procedure ( SENDER : TObject; SOURCE : TMENUITEM; REBUILD : BOOLEAN)
14665: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
14666: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
14667: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
14668: Procedure ( Sender : TObject; Thread : TServerClientThread)
14669: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
14670: Procedure ( Sender : TObject; Username, Password : string)
14671: Procedure ( Sender : TObject; var AllowChange : Boolean)
14672: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
14673: Procedure ( Sender : TObject; var Caption : string; var Alignment : THTMLCaptionAlignment)
14674: Procedure ( Sender : TObject; var Continue : Boolean)
14675: Procedure (Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMethod:TidHTTPMethod)
14676: Procedure ( Sender : TObject; var Username : string)
14677: Procedure ( Sender : TObject; Wnd : HWND)
14678: Procedure ( Sender : TToolBar; Button : TToolButton)
14679: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
14680: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
14681: Procedure ( Sender : TToolBar; Index : Integer; var Allow : Boolean)
14682: Procedure ( Sender : TToolBar; Index : Integer; var Button : TToolButton)
14683: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
14684: Procedure ( StatusBar : TStatusBar; Panel : TStatusPanel; const Rect : TRect)
14685: Procedure (var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
14686: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
14687: procedure (Sender: TObject)
14688: procedure (Sender: TObject; var Done: Boolean)
14689: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
14690: procedure _T(Name: tbtString; v: Variant);
14691: Procedure AbandonSignalHandler( RtlSigNum : Integer)
14692: Procedure Abort
14693: Procedure About1Click( Sender : TObject)
14694: Procedure Accept( Socket : TSocket)
14695: Procedure AESSymmetricExecute(const plaintext, ciphertext, password: string)
14696: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
14697: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
14698: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
14699: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
14700: Procedure Add( Addend1, Addend2 : TMyBigInt)
14701: Procedure ADD( const AKEY, AVALUE : VARIANT)
14702: Procedure Add( const Key : string; Value : Integer)
14703: Procedure ADD( const NAME, FIELDS : string; OPTIONS : TINDEXTIONS)
14704: Procedure ADD( FIELD : TFIELD)
14705: Procedure ADD( ITEM : TMENUITEM)
14706: Procedure ADD( POPUP : TPOPMENU)
14707: Procedure AddCharacters( xCharacters : TCharSet)
14708: Procedure AddDriver( const Name : string; List : TStringList)
14709: Procedure AddImages( Value : TCustomImageList)
14710: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
14711: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
14712: Procedure AddLoader( Loader : TBitmapLoader)
14713: Procedure ADDPARAM( VALUE : TPARAM)
14714: Procedure AddPassword( const Password : string)
14715: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
14716: Procedure AddState( oState : TniRegularExpressionState)
14717: Procedure AddStrings( Strings : TStringList)
14718: procedure AddStrings(Strings: TStringList);
14719: Procedure AddStrings1( Strings : TWideStrings);
14720: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
14721: Procedure AddToRecentDocs( const Filename : string)
14722: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharSet)
14723: Procedure AllFunctionsList1Click( Sender : TObject)
14724: procedure AllObjectsList1Click(Sender: TObject);
14725: Procedure Allocate( AAllocateBytes : Integer)
14726: procedure AllResourceList1Click(Sender: TObject);
14727: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
14728: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
14729: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
14730: Procedure AnsiFree( var s : AnsiString)
14731: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
14732: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
14733: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
14734: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
14735: Procedure AntiFreeze;
14736: Procedure APPEND

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14737: Procedure Append( const S : WideString)
14738: procedure Append(S: string);
14739: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
14740: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
14741: Procedure AppendChunk( Val : OleVariant)
14742: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
14743: Procedure AppendStr( var Dest : string; S : string)
14744: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALength : Integer)
14745: Procedure ApplyRange
14746: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
14747: Procedure Arrange( Code : TListArrangement)
14748: procedure Assert(expr : Boolean; const msg: string);
14749: procedure Assert2(expr : Boolean; const msg: string);
14750: Procedure Assign( AList : TCustomBucketList)
14751: Procedure Assign( Other : TObject)
14752: Procedure Assign( Source : TDragObject)
14753: Procedure Assign( Source : TPersistent)
14754: Procedure Assign(Source: TPersistent)
14755: procedure Assign2(mystring, mypath: string);
14756: Procedure AssignCurValues( Source : TDataSet);
14757: Procedure AssignCurValues1( const CurValues : Variant);
14758: Procedure ASSIGNFIELD( FIELD : TFIELD)
14759: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
14760: Procedure AssignFile(var F: Text; FileName: string)
14761: procedure AssignFile(var F: TextFile; FileName: string)
14762: procedure AssignFileRead(var mystring, myfilename: string);
14763: procedure AssignFileWrite(mystring, myfilename: string);
14764: Procedure AssignTo( Other : TObject)
14765: Procedure AssignValues( Value : TParameters)
14766: Procedure ASSIGNVALUES( VALUE : TPARAMS)
14767: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
14768: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
14769: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
14770: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
14771: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
14772: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
14773: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
14774: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
14775: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
14776: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
14777: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
14778: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
14779: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
14780: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
14781: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
14782: procedure Beep
14783: Procedure BeepOk
14784: Procedure BeepQuestion
14785: Procedure BeepHand
14786: Procedure BeepExclamation
14787: Procedure BeepAsterisk
14788: Procedure BeepInformation
14789: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
14790: Procedure BeginLayout
14791: Procedure BeginTimer( const Delay, Resolution : Cardinal)
14792: Procedure BeginUpdate
14793: procedure BeginUpdate;
14794: procedure BigScreen1Click(Sender: TObject);
14795: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
14796: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
14797: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
14798: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
14799: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
14800: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
14801: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
14802: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
14803: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
14804: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
14805: Procedure BreakPointMenuClick( Sender : TObject)
14806: procedure BRINGTOFRONT
14807: procedure BringToFront;
14808: Procedure btnBackClick( Sender : TObject)
14809: Procedure btnBrowseClick( Sender : TObject)
14810: Procedure BtnClick( Index : TNavigateBtn)
14811: Procedure btnLargeIconsClick( Sender : TObject)
14812: Procedure BuildAndSendRequest( AURI : TIdURI)
14813: Procedure BuildCache
14814: Procedure BurnMemory( var Buff, BuffLen : integer)
14815: Procedure BurnMemoryStream( Destructo : TMemoryStream)
14816: Procedure CalculateFirstSet
14817: Procedure Cancel
14818: procedure CancelDrag;
14819: Procedure CancelEdit
14820: procedure CANCELHINT
14821: Procedure CancelRange
14822: Procedure CancelUpdates
14823: Procedure CancelWriteBuffer
14824: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool;
14825: Procedure Capture2( ADest : TString; const ADelim : string; const AIsRFCMessage : Boolean);

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14826: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool
14827: procedure CaptureScreenFormat(vname: string; vextension: string);
14828: procedure CaptureScreenPNG(vname: string);
14829: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
14830: procedure CASCADE
14831: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
14832: Procedure CastSoapToVariant( SoapInfo: PTypeInfo; const SoapData : WideString; NatData : Pointer);
14833: Procedure cbPathClick( Sender : TObject)
14834: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
14835: Procedure cedebugAfterExecute( Sender : TPSScript)
14836: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
14837: Procedure cedebugCompile( Sender : TPSScript)
14838: Procedure cedebugExecute( Sender : TPSScript)
14839: Procedure cedebugIdle( Sender : TObject)
14840: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
14841: Procedure CenterHeight( const pc, pcParent : TControl)
14842: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
14843: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
14844: Procedure Change
14845: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
14846: Procedure Changed
14847: Procedure ChangeDir( const ADirName : string)
14848: Procedure ChangeDirUp
14849: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
14850: Procedure ChangeLevelBy( Value : TChangeRange)
14851: Procedure ChDir(const s: string)
14852: Procedure Check(Status: Integer)
14853: Procedure CheckCommonControl( CC : Integer)
14854: Procedure CHECKFIELDNAME( const FIELDNAME : String)
14855: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
14856: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
14857: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
14858: Procedure CheckToken( T : Char)
14859: procedure CheckToken(t:char)
14860: Procedure CheckTokenSymbol( const S : string)
14861: procedure CheckTokenSymbol(s:string)
14862: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
14863: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
14864: Procedure CIED65ToCIED50( var X, Y, Z : Extended)
14865: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal);
14866: procedure CipherFileClick(Sender: TObject);
14867: Procedure Clear;
14868: Procedure ClearClick( Sender : TObject)
14869: Procedure ClearColor( Color : TColor)
14870: Procedure CLEARITEM( AITEM : TMENUITEM)
14871: Procedure ClearMapping
14872: Procedure ClearSelection( KeepPrimary : Boolean)
14873: Procedure ClearWriteBuffer
14874: Procedure Click
14875: Procedure Close
14876: Procedure CloselClick( Sender : TObject)
14877: Procedure CloseDatabase( Database : TDatabase)
14878: Procedure CloseDataSets
14879: Procedure CloseDialog
14880: Procedure CloseFile(var F: Text);
14881: Procedure Closure
14882: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
14883: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
14884: Procedure CodeCompletionList1Click( Sender : TObject)
14885: Procedure ColEnter
14886: Procedure Collapse
14887: Procedure Collapse( Recurse : Boolean)
14888: Procedure ColorRGBToHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word)
14889: Procedure CommaSeparatedToStringList( AList : TStrings; const Value : string)
14890: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction)
14891: Procedure CompileClick( Sender : TObject)
14892: procedure ComponentCount1Click(Sender: TObject);
14893: Procedure Compress(azipfolder, azipfile: string)
14894: Procedure DeCompress(azipfolder, azipfile: string)
14895: Procedure XZip(azipfolder, azipfile: string)
14896: Procedure XUnZip(azipfolder, azipfile: string)
14897: Procedure Connect( const ATimeout: Integer)
14898: Procedure Connect( Socket : TSocket)
14899: procedure Console1Click(Sender: TObject);
14900: Procedure Continue
14901: Procedure ContinueCount( var Counter : TJclCounter)
14902: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
14903: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
14904: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
14905: Procedure ConvertImage(vsource, vdestination: string);
14906: // Ex. ConvertImage(Exepath+'my233_bmp.bmp',Exepath+'mypng111.png')
14907: Procedure ConvertToGray(Cnv: TCanvas);
14908: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
14909: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
14910: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
14911: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
14912: Procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASourceIndex : Integer; var VDest : Word)
14913: Procedure CopyFrom( mbCopy : TMyBigInt)
14914: Procedure CopyMemoryStream( Source, Destination : TMemoryStream)

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14915: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
14916: Procedure CopyTidByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array
of Byte; const ADestIndex : Integer; const ALength : Integer)
14917: Procedure CopyTidBytes(const ASrc:TidBytes;const ASrcIndex:Int;var VDest:TidBytes;const ADestIdx:Int;const
ALength:Int)
14918: Procedure CopyTidCardinal( const ASource : Cardinal; var VDest : TidBytes; const ADestIndex : Integer)
14919: Procedure CopyTidInt64( const ASource : Int64; var VDest : TidBytes; const ADestIndex : Integer)
14920: Procedure CopyTidIPv6Address(const ASource:TidIPv6Address; var VDest: TidBytes; const ADestIndex : Integer)
14921: Procedure CopyTidLongWord( const ASource : LongWord; var VDest : TidBytes; const ADestIndex : Integer)
14922: Procedure CopyTidNetworkLongWord( const ASource : LongWord; var VDest : TidBytes; const ADestIndex:Integer)
14923: Procedure CopyTidNetworkWord( const ASource : Word; var VDest : TidBytes; const ADestIndex : Integer)
14924: Procedure CopyTidString(const ASource:String;var VDest:TidBytes;const ADestIndex:Integer;ALength: Integer)
14925: Procedure CopyTidWord( const ASource : Word; var VDest : TidBytes; const ADestIndex : Integer)
14926: Procedure CopyToClipboard
14927: Procedure CountParts
14928: Procedure CreateDataSet
14929: Procedure CreateEmptyFile( const FileName : string)
14930: Procedure CreateFileFromString( const FileName, Data : string)
14931: Procedure CreateFromDelta( Source : TPacketDataSet)
14932: procedure CREATEHANDLE
14933: Procedure CreateProcAsUser( const UserDomain, UserName, Password, CommandLine : string)
14934: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
14935: Procedure CreateTable
14936: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
14937: procedure CSyntaxClick(Sender: TObject);
14938: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
14939: Procedure CURSORPOSCHANGED
14940: procedure CutFirstDirectory(var S: String)
14941: Procedure DataBaseError(const Message: string)
14942: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);
14943: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
14944: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
14945: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
14946: Procedure DBIError(errorCode: Integer)
14947: Procedure DebugOutput( const AText : string)
14948: Procedure DebugRunClick( Sender : TObject)
14949: procedure Dec;
14950: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
14951: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
14952: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
14953: Procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
14954: Procedure DecodeDateTime(const AValue:TDateTime;out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
14955: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
14956: Procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
14957: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
14958: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
14959: Procedure DecompileClick( Sender : TObject)
14960: Procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
14961: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
14962: Procedure DeferLayout
14963: Procedure deffileread
14964: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL;REMOVING:BOOLEAN)
14965: Procedure DelayMicroseconds( const MicroSeconds : Integer)
14966: Procedure Delete
14967: Procedure Delete( const AFilename : string)
14968: Procedure Delete( const Index : Integer)
14969: Procedure DELETE( INDEX : INTEGER)
14970: Procedure Delete( Index : LongInt)
14971: Procedure Delete( Node : TTreeNode)
14972: procedure Delete(var s: AnyString; ifrom, icount: Longint);
14973: Procedure DeleteAlias( const Name : string)
14974: Procedure DeleteDriver( const Name : string)
14975: Procedure DeleteIndex( const Name : string)
14976: Procedure DeleteKey( const Section, Ident : string)
14977: Procedure DeleteRecords
14978: Procedure DeleteRecords( AffectRecords : TAffectRecords)
14979: Procedure DeleteString( var pStr : string; const pDelStr : string)
14980: Procedure DeleteTable
14981: procedure DelphiSiteClick(Sender: TObject);
14982: Procedure Deselect
14983: Procedure Deselect( Node : TTreeNode)
14984: procedure DestroyComponents
14985: Procedure DestroyHandle
14986: Procedure Diff( var X : array of Double)
14987: procedure Diff(var X: array of Double);
14988: procedure DISABLEALIGN
14989: Procedure DisableConstraints
14990: Procedure Disconnect
14991: Procedure Disconnect( Socket : TSocket)
14992: Procedure Dispose
14993: procedure Dispose(P: PChar)
14994: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
14995: Procedure DoKey( Key : TDBCtrlGridKey)
14996: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
14997: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
14998: Procedure Dormant
14999: Procedure DoubleToBcd( const AValue : Double; var bcd : TBcd);
15000: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
15001: Procedure DoubleToComp( Value : Double; var Result : Comp)

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15002: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
15003: procedure Draw(X, Y: Integer; Graphic: TGraphic);
15004: Procedure Draw1(Canvas:TCanvas; X,Y,
Index:Integer;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
15005: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
15006: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
15007: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
15008: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
15009: procedure DrawFocusRect(const Rect: TRect);
15010: Procedure DrawHDIBToTBitmap( HDIB : THandle; Bitmap : TBitmap)
15011: Procedure DRAWMENUITEM( MENUITEM : TMENUITEM; ACANVAS : TCanvas; ARECT : TRect; STATE : TOWNERDRAWSTATE)
15012: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean);
15013: Procedure DrawOverlay1(Canvas:TCanvas; X,Y:Integer; ImageIndex:Integer; Overlay : TOverlay; ADrawingStyle :
TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
15014: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
15015: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
15016: Procedure DropConnections
15017: Procedure DropDown
15018: Procedure DumpDescription( oStrings : TStrings)
15019: Procedure DumpStateTable( oStrings : TStrings)
15020: Procedure EDIT
15021: Procedure EditButtonClick
15022: Procedure EditFont1Click( Sender : TObject)
15023: procedure Ellipse(X1, Y1, X2, Y2: Integer);
15024: Procedure Ellipse1( const Rect : TRect);
15025: Procedure EMMS
15026: Procedure Encode( ADest : TStream)
15027: procedure ENDDRAG(DROP:BOOLEAN)
15028: Procedure EndEdit( Cancel : Boolean)
15029: Procedure EndTimer
15030: Procedure EndUpdate
15031: Procedure EraseSection( const Section : string)
15032: Procedure Error( const Ident : string)
15033: procedure Error(Ident:Integer)
15034: Procedure ErrorFmt( const Ident : string; const Args : array of const)
15035: Procedure ErrorStr( const Message : string)
15036: procedure ErrorStr(Message:String)
15037: Procedure Exchange( Index1, Index2 : Integer)
15038: procedure Exchange(Index1, Index2: Integer);
15039: Procedure Exec( FileName, Parameters, Directory : string)
15040: Procedure ExecProc
15041: Procedure ExecSQL( UpdateKind : TUpdateKind)
15042: Procedure Execute
15043: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
15044: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
15045: Procedure ExecuteCommand(executeFile, paramstring: string)
15046: Procedure ExecuteShell(executeFile, paramstring: string)
15047: Procedure ExitThread(ExitCode: Integer); stdcall;
15048: Procedure ExitProcess(ExitCode: Integer); stdcall;
15049: Procedure Expand( AUserName : String; AResults : TStrings)
15050: Procedure Expand( Recurse : Boolean)
15051: Procedure ExportClipboard1Click( Sender : TObject)
15052: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
15053: Procedure ExtractContentFields( Strings : TStrings)
15054: Procedure ExtractCookieFields( Strings : TStrings)
15055: Procedure ExtractFields( Separators, WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
15056: Procedure ExtractHeaderFields(Separ,
WhiteSpace:TSysChSet;Content:PChar;Strings:TStrings;Decode:Bool;StripQuotes:Bool)
15057: Procedure ExtractHTTPFields(Separators, WhiteSpace:
TSysCharSet;Content:PChar;Strings:TStrings;StripQuotes:Bool)
15058: Procedure ExtractQueryFields( Strings : TStrings)
15059: Procedure FastDegToGrad
15060: Procedure FastDegToRad
15061: Procedure FastGradToDeg
15062: Procedure FastGradToRad
15063: Procedure FastRadToDeg
15064: Procedure FastRadToGrad
15065: Procedure FileClose( Handle : Integer)
15066: Procedure FileClose(handle: integer)
15067: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs,ShowDirs,Multitasking:Bool)
15068: Procedure FileStructure( AStructure : TIdFTPDataStructure)
15069: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
15070: Procedure FillBytes( var VBytes : TIdBytes; const ACount : Integer; const AValue : Byte)
15071: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
15072: Procedure FillChar2(var X: PChar ; count: integer; value: char)
15073: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
15074: Procedure FillIPList
15075: procedure FillRect(const Rect: TRect);
15076: Procedure FillTStrings( AStrings : TStrings)
15077: Procedure FilterOnBookmarks( Bookmarks : array of const)
15078: procedure FinalizePackage(Module: HMODULE)
15079: procedure FindClose;
15080: procedure FindClose2(var F: TSearchRec)
15081: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
15082: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
15083: Procedure FindNearest( const KeyValues : array of const)
15084: Procedure FinishContext
15085: Procedure FIRST
15086: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)

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15087: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
15088: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
15089: Procedure FlushSchemaCache( const TableName : string)
15090: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
15091: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
15092: Procedure FormlClose( Sender : TObject; var Action : TCloseAction)
15093: Procedure FormActivate( Sender : TObject)
15094: Procedure FormatLn(const format: String; const args: array of const); //alias
15095: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
15096: Procedure FormCreate( Sender : TObject)
15097: Procedure FormDestroy( Sender : TObject)
15098: Procedure FormKeyPress( Sender : TObject; var Key : Char)
15099: procedure FormOutputClick(Sender: TObject);
15100: Procedure FormToHtml( Form : TForm; Path : string)
15101: procedure FrameRect(const Rect: TRect);
15102: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
15103: Procedure NotebookHandlesNeeded( Notebook : TNotebook)
15104: Procedure Free( Buffer : TRecordBuffer)
15105: Procedure Free( Buffer : TValueBuffer)
15106: Procedure Free;
15107: Procedure FreeAndNil(var Obj:TObject)
15108: Procedure FreeImage
15109: procedure FreeMem(P: PChar; Size: Integer)
15110: Procedure FreeTreeData( Tree : TUpdateTree)
15111: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
15112: Procedure FullCollapse
15113: Procedure FullExpand
15114: Procedure GenerateDPB(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
15115: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
15116: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
15117: Procedure Get1( AURL : string; const AResponseContent : TStream);
15118: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
15119: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
15120: Procedure GetAliasNames( List : TStrings)
15121: Procedure GetAliasParams( const AliasName : string; List : TStrings)
15122: Procedure GetApplicationsRunning( Strings : TStrings)
15123: Procedure GetCommandTypes( List : TWideStrings)
15124: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
15125: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
15126: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
15127: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
15128: Procedure GetDatabaseNames( List : TStrings)
15129: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
15130: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
15131: Procedure GetDir(d: byte; var s: string)
15132: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
15133: Procedure GetDriverNames( List : TStrings)
15134: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
15135: Procedure GetDriverParams( const DriverName : string; List : TStrings)
15136: Procedure GetEMails1Click( Sender : TObject)
15137: Procedure getEnvironmentInfo;
15138: Function getEnvironmentString: string;
15139: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
15140: Procedure GetFieldNames( const TableName : string; List : TStrings)
15141: Procedure GetFieldNames( const TableName : string; List : TStrings);
15142: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
15143: Procedure GETFIELDNAMES( LIST : TSTRINGS)
15144: Procedure GetFieldNames1( const TableName : string; List : TStrings);
15145: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
15146: Procedure GetFieldNames2( const TableName : WideString;SchemaName : WideString; List : TWideStrings);
15147: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
15148: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
15149: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
15150: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
15151: Procedure GetFormatSettings
15152: Procedure GetFromDIB( var DIB : TBitmapInfo)
15153: Procedure GetFromHDIB( HDIB : HBitmap)
15154: Procedure GetIcon( Index : Integer; Image : TIcon);
15155: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
15156: Procedure GetIndexInfo( IndexName : string)
15157: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
15158: Procedure GetIndexNames( List : TStrings)
15159: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
15160: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
15161: Procedure GetIndexNames4( const TableName : string; List : TStrings);
15162: Procedure GetInternalResponse
15163: Procedure GETITEMNAMES( LIST : TSTRINGS)
15164: procedure GetMem(P: PChar; Size: Integer)
15165: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
15166: procedure GetPackageDescription(ModuleName: PChar): string)
15167: Procedure GetPackageNames( List : TStrings);
15168: Procedure GetPackageNames1( List : TWideStrings);
15169: Procedure GetParamList( List : TList; const ParamNames : WideString)
15170: Procedure GetProcedureNames( List : TStrings);
15171: Procedure GetProcedureNames( List : TWideStrings);
15172: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
15173: Procedure GetProcedureNames1( List : TStrings);
15174: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
15175: Procedure GetProcedureNames3( List : TWideStrings);

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15176: Procedure GetProcedureNames4( const PackageName : WideString; List : TWideStrings);
15177: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
15178: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
15179: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
15180: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : WideString; List : TList);
15181: Procedure GetProviderNames( Names : TWideStrings);
15182: Procedure GetProviderNames( Proc : TGetStrProc);
15183: Procedure GetProviderNames1( Names : TStrings);
15184: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
15185: procedure GetQrCode3(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);//no auto
open image
15186: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const
Data:string;aformat:string):TLinearBitmap;
15187: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
15188: Procedure GetSchemaNames( List : TStrings);
15189: Procedure GetSchemaNames1( List : TWideStrings);
15190: Procedure GetSessionNames( List : TStrings);
15191: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
15192: Procedure GetStrings( List : TStrings)
15193: Procedure GetSystemTime; stdcall;
15194: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings)
15195: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
15196: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
15197: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
15198: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
15199: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
15200: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
15201: Procedure GetTransitionsOn( cChar : char; oStateList : TList)
15202: Procedure GetVisibleWindows( List : Tstrings)
15203: Procedure GoBegin
15204: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
15205: Procedure GotoCurrent( Table : TTable)
15206: procedure GotoEnd1Click(Sender: TObject);
15207: Procedure GotoNearest
15208: Procedure GradientFillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const
Direction: TGradientDirection)
15209: Procedure HandleException( E : Exception; var Handled : Boolean)
15210: procedure HANDLEMESSAGE
15211: procedure HandleNeeded;
15212: Procedure Head( AURL : string)
15213: Procedure Help( var AHelpContents : TStringList; ACommand : string)
15214: Procedure HexToBinary( Stream : TStream)
15215: procedure HexToBinary(Stream:TStream)
15216: Procedure HideDragImage
15217: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
15218: Procedure HideTraybar
15219: Procedure HideWindowForSeconds(secs: integer); {//3 seconds}
15220: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); {//3 seconds}
15221: Procedure HookOSExceptions
15222: Procedure HookSignal( RtlSigNum : Integer)
15223: Procedure HSLToRGB( const H, S, L : Single; out R, G, B : Single);
15224: Procedure HTMLSyntax1Click( Sender : TObject)
15225: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
15226: Procedure IFPS3ClassesPlugin1ExecImport( Sender : TObject; Exec : TPSExec; x : TPSRuntimeClassImporter)
15227: Procedure ImportfromClipboard1Click( Sender : TObject)
15228: Procedure ImportfromClipboard2Click( Sender : TObject)
15229: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
15230: procedure Incb(var x: byte);
15231: Procedure Include1Click( Sender : TObject)
15232: Procedure IncludeOFF; //preprocessing
15233: Procedure IncludeON;
15234: procedure Infoclick(Sender: TObject);
15235: Procedure InitAltRecBuffers( CheckModified : Boolean)
15236: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
15237: Procedure InitContext(WebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse)
15238: Procedure InitData( ASource : TDataSet)
15239: Procedure InitDelta( ADelta : TPacketDataSet);
15240: Procedure InitDelta( const ADelta : OleVariant);
15241: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
15242: Procedure Initialize
15243: procedure InitializePackage(Module: HMODULE)
15244: Procedure INITIATEACTION
15245: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
15246: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
15247: Procedure InitModule( AModule : TComponent)
15248: Procedure InitStdConvs
15249: Procedure InitTreeData( Tree : TUpdateTree)
15250: Procedure INSERT
15251: Procedure Insert( Index : Integer; AClass : TClass)
15252: Procedure Insert( Index : Integer; AComponent : TComponent)
15253: Procedure Insert( Index : Integer; AObject : TObject)
15254: Procedure Insert( Index : Integer; const S : WideString)
15255: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
15256: Procedure Insert(Index: Integer; const S: string);
15257: procedure Insert(Index: Integer; S: string);
15258: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
15259: procedure InsertComponent(AComponent:TComponent)
15260: procedure InsertControl(AControl: TControl);
15261: Procedure InsertIcon( Index : Integer; Image : TIcon)

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15262: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
15263: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
15264: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
15265: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
15266: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
15267: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
15268: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
15269: Procedure InternalBeforeResolve( Tree : TUpdateTree)
15270: Procedure InvalidateModuleCache
15271: Procedure InvalidateTitles
15272: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
15273: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
15274: Procedure InvalidDateTimeError(const AYear, AMth, ADay, AHour, AMin, ASec, AMilSec:Word;const
ABaseDate:TDateTime)
15275: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
15276: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
15277: procedure JavaSyntax1Click(Sender: TObject);
15278: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
15279: Procedure KillDataChannel
15280: Procedure Largefont1Click( Sender : TObject)
15281: Procedure LAST
15282: Procedure LaunchCpl( FileName : string)
15283: Procedure Launch( const AFile : string)
15284: Procedure LaunchFile( const AFile : string)
15285: Procedure LetFileList(FileList: TStringlist; apath: string);
15286: Procedure lineToNumber( xmemo : String; met : boolean)
15287: Procedure ListViewCustomDrawItem(Sender:TCustomListView;Item:TListItem;State:TCustomDrawState;var
DefaultDraw:Bool)
15288: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
: TCustomDrawState; var DefaultDraw : Boolean)
15289: Procedure ListViewData( Sender : TObject; Item : TListItem)
15290: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
: TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
15291: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
15292: Procedure ListViewDblClick( Sender : TObject)
15293: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
15294: Procedure ListDLLEExports(const FileName: string; List: TStrings);
15295: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream)
15296: procedure LoadBytecode1Click(Sender: TObject);
15297: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
15298: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
15299: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
15300: Procedure LoadFromFile( AFileName : string)
15301: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
15302: Procedure LoadFromFile( const FileName : string)
15303: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
15304: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
15305: Procedure LoadFromFile( const FileName : WideString)
15306: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
15307: Procedure LoadFromFile(const AFileName: string)
15308: procedure LoadFromFile(FileName: string);
15309: procedure LoadFromFile(FileName:String)
15310: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
15311: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
15312: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
15313: Procedure LoadFromStream( const Stream : TStream)
15314: Procedure LoadFromStream( S : TStream)
15315: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
15316: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
15317: Procedure LoadFromStream( Stream : TStream)
15318: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOBTYPE : TBLOBTYPE)
15319: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
15320: procedure LoadFromStream(Stream: TStream);
15321: Procedure LoadFromStream1( Stream : TSeekableStream; const FormatExt : string);
15322: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
15323: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
15324: Procedure LoadLastFile1Click( Sender : TObject)
15325: { LoadIcoToImage loads two icons from resource named NameRes,
15326: into two image lists ALarge and ASmall}
15327: Procedure LoadIcoToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
15328: Procedure LoadMemo
15329: Procedure LoadParamsFromIniFile( FFileName : WideString)
15330: Procedure Lock
15331: Procedure Login
15332: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
15333: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
15334: Procedure MakeCaseInsensitive
15335: Procedure MakeDeterministic( var bChanged : boolean)
15336: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
15337: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
15338: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
15339: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
15340: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
15341: Procedure SetRectComplexFormatStr( const S : string)
15342: Procedure SetPolarComplexFormatStr( const S : string)
15343: Procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
15344: Procedure MakeVisible
15345: Procedure MakeVisible( PartialOK : Boolean)
15346: Procedure Manual1Click( Sender : TObject)

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15347: Procedure MarkReachable
15348: Procedure maXbox; //shows the exe version data in a win box
15349: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
15350: Procedure Memo1Change( Sender : TObject)
15351: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var
Action:TSynReplaceAction)
15352: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
15353: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
15354: procedure Memory1Click(Sender: TObject);
15355: Procedure MERGE( MENU : TMAINMENU)
15356: Procedure MergeChangeLog
15357: procedure MINIMIZE
15358: Procedure MinimizeMaxbox;
15359: Procedure MkDir(const s: string)
15360: Procedure mnuPrintFont1Click( Sender : TObject)
15361: procedure ModalStarted
15362: Procedure Modified
15363: Procedure ModifyAlias( Name : string; List : TStringList)
15364: Procedure ModifyDriver( Name : string; List : TStringList)
15365: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
15366: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
15367: Procedure Move( CurIndex, NewIndex : Integer)
15368: procedure Move(CurIndex, NewIndex: Integer);
15369: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
15370: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
15371: Procedure moveCube( o : TMyLabel)
15372: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
15373: procedure MoveTo(X, Y: Integer);
15374: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
15375: Procedure MovePoint(var x,y:Extended; const angle:Extended);
15376: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
15377: Procedure Multiply1( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
15378: Procedure MsgAbout(Handle: Int;const Msg,Caption:string;const IconName:string = 'MAINICON';Flags:DWORD=MB_OK);
15379: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
15380: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
15381: procedure New(P: PChar)
15382: procedure New1Click(Sender: TObject);
15383: procedure NewInstance1Click(Sender: TObject);
15384: Procedure NEXT
15385: Procedure NextMonth
15386: Procedure Noop
15387: Procedure NormalizePath( var APath : string)
15388: procedure ObjectBinaryToText(Input, Output: TStream)
15389: procedure ObjectBinaryToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
15390: procedure ObjectResourceToText(Input, Output: TStream)
15391: procedure ObjectResourceToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
15392: procedure ObjectTextToBinary(Input, Output: TStream)
15393: procedure ObjectTextToBinary1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
15394: procedure ObjectTextToResource(Input, Output: TStream)
15395: procedure ObjectTextToResource1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
15396: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
15397: Procedure Open( const UserID : WideString; const Password : WideString);
15398: Procedure Open;
15399: Procedure open1Click( Sender : TObject)
15400: Procedure OpenCdDrive
15401: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)
15402: Procedure OpenCurrent
15403: Procedure OpenFile(vfilenamepath: string)
15404: Procedure OpenDirectory1Click( Sender : TObject)
15405: Procedure OpenIndexFile( const IndexName : string)
15406: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const
SchemaID:OleVariant;DataSet:TADODataSet)
15407: Procedure OpenWriteBuffer( const AThreshold : Integer)
15408: Procedure OptimizeMem
15409: Procedure Options1( AURL : string);
15410: Procedure OutputDebugString(lpOutputString : PChar)
15411: Procedure PackBuffer
15412: Procedure Paint
15413: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean)
15414: Procedure PaintToTBitmap( Target : TBitmap)
15415: Procedure PaletteChanged
15416: Procedure ParentBiDiModeChanged
15417: Procedure PARENTBIDIMODECHANGED( ACONTROL : TOBJECT)
15418: Procedure PasteFromClipboard;
15419: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer)
15420: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
15421: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
15422: Procedure PError( Text : string)
15423: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
15424: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Integer;Y3:Integer;X4:Integer;Y4:Integer);
15425: Procedure Play( FromFrame, ToFrame : Word; Count : Integer)
15426: procedure playmp3(mpath: string);
15427: Procedure PlayMP31Click( Sender : TObject)
15428: Procedure PointCopy( var Dest : TPoint; const Source : TPoint)
15429: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer)
15430: procedure PolyBezier(const Points: array of TPoint);
15431: procedure PolyBezierTo(const Points: array of TPoint);
15432: procedure Polygon(const Points: array of TPoint);
15433: procedure Polyline(const Points: array of TPoint);

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15434: Procedure Pop
15435: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU;GROUPS: array of INT; var WIDTHS : array of LONGINT)
15436: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float)
15437: Procedure POPUP( X, Y : INTEGER)
15438: Procedure PopupURL(URL : WideString);
15439: Procedure POST
15440: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream);
15441: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream);
15442: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream);
15443: Procedure PostUser( const Email, FirstName, LastName : WideString)
15444: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
15445: procedure Pred(X: int64);
15446: Procedure Prepare
15447: Procedure PrepareStatement
15448: Procedure PreProcessXML( AList : TStrings)
15449: Procedure PreventDestruction
15450: Procedure Print( const Caption : string)
15451: procedure PrintBitmap(aGraphic: TGraphic; Title: string);
15452: procedure printf(const format: String; const args: array of const);
15453: Procedure PrintList(Value: TStringList);
15454: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle);//TBitmapStyle=(bsNormal,bsCentered,bsStretched)
15455: Procedure Printout1Click( Sender : TObject)
15456: Procedure ProcessHeaders
15457: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR)
15458: Procedure ProcessMessage( AMsg : TidMessage; AHeaderOnly : Boolean);
15459: Procedure ProcessMessage1( AMsg : TidMessage; const AStream : TStream; AHeaderOnly : Boolean);
15460: Procedure ProcessMessage2( AMsg : TidMessage; const AFilename : string; AHeaderOnly : Boolean);
15461: Procedure ProcessMessagesOFF; //application.processmessages
15462: Procedure ProcessMessagesON;
15463: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
15464: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
15465: Procedure Proclst Size is: 3797 /1415
15466: Procedure procMessClick( Sender : TObject)
15467: Procedure PSScriptCompile( Sender : TPSScript)
15468: Procedure PSScriptExecute( Sender : TPSScript)
15469: Procedure PSScriptLine( Sender : TObject)
15470: Procedure Push( ABoundary : string)
15471: procedure PushItem(AItem: Pointer)
15472: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream);
15473: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean);
15474: procedure PutLinuxLines(const Value: string)
15475: Procedure Quit
15476: Procedure RaiseConversionError( const AText : string);
15477: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const);
15478: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string)
15479: procedure RaiseException(Ex: TIFException; Param: String);
15480: Procedure RaiseExceptionForLastCmdResult;
15481: procedure RaiseLastException;
15482: procedure RaiseException2;
15483: Procedure RaiseLastOSError
15484: Procedure RaiseLastWin32;
15485: procedure RaiseLastWin32Error)
15486: Procedure RaiseListError( const ATemplate : string; const AData : array of const)
15487: Procedure RandomFillStream( Stream : TMemoryStream)
15488: procedure randomize;
15489: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect)
15490: Procedure RCS
15491: Procedure Read( Socket : TSocket)
15492: Procedure ReadBlobData
15493: procedure ReadBuffer(Buffer:String;Count:LongInt)
15494: procedure ReadOnly1Click(Sender: TObject);
15495: Procedure ReadSection( const Section : string; Strings : TStrings)
15496: Procedure ReadSections( Strings : TStrings)
15497: Procedure ReadSections1( Strings : TStrings);
15498: Procedure ReadSections1( const Section : string; Strings : TStrings);
15499: Procedure ReadSectionValues( const Section : string; Strings : TStrings)
15500: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean)
15501: Procedure ReadStrings( ADest : TStrings; AReadLinesCount : Integer)
15502: Procedure ReadVersion2(aFileName: STRING; aVersion : TStrings);
15503: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
15504: Procedure Realign;
15505: procedure Rectangle(X1, Y1, X2, Y2: Integer);
15506: Procedure Rectangle1( const Rect : TRect);
15507: Procedure RectCopy( var Dest : TRect; const Source : TRect)
15508: Procedure RectFitToScreen( var R : TRect)
15509: Procedure RectGrow( var R : TRect; const Delta : Integer)
15510: Procedure RectGrowX( var R : TRect; const Delta : Integer)
15511: Procedure RectGrowY( var R : TRect; const Delta : Integer)
15512: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer)
15513: Procedure RectMoveTo( var R : TRect; const X, Y : Integer)
15514: Procedure RectNormalize( var R : TRect)
15515: // TFileCallbackProcedure = procedure(filename:string);
15516: Procedure RecurseDirectory(Dir: String; IncludeSubs: boolean;callback: TFileCallbackProcedure);
15517: Procedure RecurseDirectory2(Dir: String; IncludeSubs: boolean);
15518: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
15519: Procedure Refresh;
15520: Procedure RefreshData( Options : TFetchOptions)
15521: Procedure REFRESHLOOKUPLIST
15522: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIdAuthenticationClass)

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15523: Procedure RegisterChanges( Value : TChangeLink)
15524: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass)
15525: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass)
15526: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int)
15527: Procedure ReInitialize( ADelay : Cardinal)
15528: procedure RELEASE
15529: Procedure Remove( const AByteCount : integer)
15530: Procedure REMOVE( FIELD : TFIELD)
15531: Procedure REMOVE( ITEM : TMENUITEM)
15532: Procedure REMOVE( POPUP : TPOPMENU)
15533: Procedure RemoveAllPasswords
15534: procedure RemoveComponent(AComponent:TComponent)
15535: Procedure RemoveDir( const ADirName : string)
15536: Procedure RemoveLambdaTransitions( var bChanged : boolean)
15537: Procedure REMOVEPARAM( VALUE : TPARAM)
15538: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset);
15539: Procedure RemoveTransitionToI( oState : TniRegularExpressionState);
15540: Procedure Rename( const ASourceFile, ADestFile : string)
15541: Procedure Rename( const FileName : string; Reload : Boolean)
15542: Procedure RenameTable( const NewTableName : string)
15543: Procedure Replace( Index : Integer; Image, Mask : TBitmap)
15544: Procedure ReplaceClick( Sender : TObject)
15545: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime)
15546: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime))
15547: Procedure ReplaceIcon( Index : Integer; Image : TIcon)
15548: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor)
15549: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime)
15550: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
15551: Procedure Requery( Options : TExecuteOptions)
15552: Procedure Reset
15553: Procedure ResetClick( Sender : TObject)
15554: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor)
15555: procedure ResourceExploreClick(Sender: TObject);
15556: Procedure RestoreContents
15557: Procedure RestoreDefaults
15558: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string)
15559: Procedure RetrieveHeaders
15560: Procedure RevertRecord
15561: Procedure RGBAToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal)
15562: Procedure RGBAToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
15563: Procedure RGBAToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
15564: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
15565: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
15566: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer)
15567: Procedure RleCompress2( Stream : TStream)
15568: Procedure RleDecompress2( Stream : TStream)
15569: Procedure Rmdir(const S: string)
15570: Procedure Rollback
15571: Procedure Rollback( TransDesc : TTransactionDesc)
15572: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
15573: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)
15574: Procedure RollbackTrans
15575: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
15576: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
15577: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
15578: Procedure RunDll32Internal( Wnd : HWND; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
15579: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
15580: Procedure S_EBox( const AText : string)
15581: Procedure S_GetEncryptionKeys(DateTime1:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int)
15582: Procedure S_IBox( const AText : string)
15583: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
15584: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
15585: Procedure S-TokenInit( cBuffer : PChar; const cDelimiters : string)
15586: Procedure SampleVarianceAndMean
15587: ( const X : TDynFloatArray; var Variance, Mean : Float)
15588: Procedure Save2Click( Sender : TObject)
15589: Procedure Saveas3Click( Sender : TObject)
15590: Procedure Savebefore1Click( Sender : TObject)
15591: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
15592: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
15593: Procedure SaveConfigFile
15594: Procedure SaveOutput1Click( Sender : TObject)
15595: procedure SaveScreenshotClick(Sender: TObject);
15596: Procedure SaveLn(pathname, content : string); //SaveLn(exepath+'mysaveIntest.txt', memo2.text);
15597: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
15598: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
15599: Procedure SaveToFile( AFileName : string)
15600: Procedure SAVETOFILE( const FILENAME : String)
15601: Procedure SaveToFile( const FileName : WideString)
15602: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
15603: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
15604: procedure SaveToFile(FileName: string);
15605: procedure SaveToFile(FileName:String)
15606: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
15607: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
15608: Procedure SaveToStream( S : TStream)
15609: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
15610: Procedure SaveToStream( Stream : TStream)

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15611: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
15612: procedure SaveToStream(Stream: TStream);
15613: procedure SaveToStream(Stream:TStream)
15614: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
15615: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
15616: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
15617: procedure Say(const sText: string)
15618: Procedure SBytecodeClick( Sender : TObject)
15619: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
15620: procedure ScriptExplorer1Click(Sender: TObject);
15621: Procedure Scroll( Distance : Integer)
15622: Procedure Scroll( DX, DY : Integer)
15623: procedure ScrollBy(DeltaX, DeltaY: Integer);
15624: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
15625: Procedure ScrollTabs( Delta : Integer)
15626: Procedure Search1Click( Sender : TObject)
15627: procedure SearchAndOpenDoc(vfilenamepath: string)
15628: procedure SearchAndOpenFile(vfilenamepath: string)
15629: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
15630: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
15631: Procedure SearchNext1Click( Sender : TObject)
15632: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
15633: Procedure Select1( const Nodes : array of TTreeNode);
15634: Procedure Select2( Nodes : TList);
15635: Procedure SelectNext( Direction : Boolean)
15636: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
15637: Procedure SelfTestPEM //unit uPSI_cPEM
15638: Procedure Send( AMsg : TIdMessage)
15639: //config forst in const MAILINIFILE = 'maildef.ini';
15640: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox',
15641: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
15642: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
15643: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
15644: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
15645: Procedure SendResponse
15646: Procedure SendStream( AStream : TStream)
15647: Procedure Set8087CW( NewCW : Word)
15648: Procedure SetAll( One, Two, Three, Four : Byte)
15649: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
15650: Procedure SetAppDispatcher( const ADispatcher : TComponent)
15651: procedure SetArrayLength;
15652: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
15653: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
15654: Procedure SetAsHandle( Format : Word; Value : THandle)
15655: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
15656: procedure SetCaptureControl(Control: TControl);
15657: Procedure SetColumnAttributes
15658: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
15659: Procedure SetCustomHeader( const Name, Value : string)
15660: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
FieldNames:Widestring)
15661: Procedure SetFMTBcd( Buffer : TRecordBuffer; value : TBcd)
15662: Procedure SetFocus
15663: procedure SetFocus; virtual;
15664: Procedure SetInitialState
15665: Procedure SetKey
15666: procedure SetLastError(ErrorCode: Integer)
15667: procedure SetLength;
15668: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
15669: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
15670: Procedure SetParams( ADataset : TDataset; UpdateKind : TUpdateKind);
15671: Procedure SETPARAMS(APOSITION,AMIN,AMAX:INTEGER)
15672: Procedure SetParams1( UpdateKind : TUpdateKind);
15673: Procedure SetPassword( const Password : string)
15674: Procedure SetPointer( Ptr : Pointer; Size : Longint)
15675: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
15676: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
15677: Procedure SetProvider( Provider : TComponent)
15678: Procedure SetProxy( const Proxy : string)
15679: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
15680: Procedure SetRange( const StartValues, EndValues : array of const)
15681: Procedure SetRangeEnd
15682: Procedure SetRate( const aPercent, aYear : integer)
15683: procedure SetRate(const aPercent, aYear: integer)
15684: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
15685: Procedure SetSafeCallExceptionMsg( Msg : String)
15686: procedure SETSELTEXTBUF(BUFFER:PCHAR)
15687: Procedure SetSize( AWidth, AHeight : Integer)
15688: procedure SetSize(NewSize:LongInt)
15689: procedure SetString(var s: string; buffer: PChar; len: Integer)
15690: Procedure SetStrings( List : TStrings)
15691: Procedure SetText( Text : PwideChar)
15692: procedure SetText(Text: PChar);
15693: Procedure SetTextBuf( Buffer : PChar)
15694: procedure SETTEXTBUF(BUFFER:PCHAR)
15695: Procedure SetTick( Value : Integer)
15696: Procedure SetTimeout( ATimeout : Integer)
15697: Procedure SetTraceEvent( Event : TDBXTraceEvent)
15698: Procedure SetUserName( const UserName : string)

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15699: Procedure SetWallpaper( Path : string);
15700: procedure ShellStyle1Click(Sender: TObject);
15701: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORTCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
15702: Procedure ShowFileProperties( const FileName : string)
15703: Procedure ShowInclude1Click( Sender : TObject)
15704: Procedure ShowInterfaces1Click( Sender : TObject)
15705: Procedure ShowLastException1Click( Sender : TObject)
15706: Procedure ShowMessage( const Msg : string)
15707: Procedure ShowMessageBig(const aText : string);
15708: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
15709: Procedure ShowMessageBig3(const aText : string; fsize: byte; aautosize: boolean);
15710: Procedure MsgBig(const aText : string); //alias
15711: procedure showmessage(mytext: string);
15712: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
15713: procedure ShowMessageFmt(const Msg: string; Params: array of const))
15714: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
15715: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
15716: Procedure ShowSearchDialog( const Directory : string)
15717: Procedure ShowSpecChars1Click( Sender : TObject)
15718: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
15719: Procedure ShredFile( const FileName : string; Times : Integer)
15720: procedure Shuffle(vQ: TStringList);
15721: Procedure ShuffleList( var List : array of Integer; Count : Integer)
15722: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
15723: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
15724: Procedure SinCosE( X : Extended; out Sin, Cos : Extended)
15725: Procedure Site( const ACommand : string)
15726: Procedure SkipEOL
15727: Procedure Sleep( ATime : cardinal)
15728: Procedure Sleep( milliseconds : Cardinal)
15729: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
15730: Procedure Slinenumbers1Click( Sender : TObject)
15731: Procedure Sort
15732: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
15733: procedure Speak(const sText: string) //async like voice
15734: procedure Speak2(const sText: string) //sync
15735: procedure Split(Str: string; SubStr: string; List: TStringList);
15736: Procedure SplitNameValue( const Line : string; var Name, Value : string)
15737: Procedure SplitColumns( const AData : string; AStrings : TStringList; const ADelim : string)
15738: Procedure SplitColumnsNoTrim( const AData : string; AStrings : TStringList; const ADelim : string)
15739: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStringList)
15740: Procedure SplitString( const AStr, AToken : string; var VLeft, VRight : string)
15741: procedure SQLSyntax1Click(Sender: TObject);
15742: Procedure SRand( Seed : RNG_IntType)
15743: Procedure Start
15744: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
15745: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringList);
15746: Procedure StartTransaction( TransDesc : TTransactionDesc)
15747: Procedure Status( var AStatusList : TStringList)
15748: Procedure StatusBar1Db1Click( Sender : TObject)
15749: Procedure StepIntolClick( Sender : TObject)
15750: Procedure StepIt
15751: Procedure StepOut1Click( Sender : TObject)
15752: Procedure Stop
15753: procedure stopmp3;
15754: procedure StartWeb(aurl: string);
15755: Procedure Str(aint: integer; astr: string); //of system
15756: Procedure StrDispose( Str : PChar)
15757: procedure StrDispose(Str: PChar)
15758: Procedure StrReplace(var Str: string; Old, New: string);
15759: Procedure StretchIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
15760: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
15761: Procedure StringToBytes( Value : string; Bytes : array of byte)
15762: procedure StrSet(c : Char; I : Integer; var s : string);
15763: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStringList);
15764: Procedure StructureMount( APath : string)
15765: procedure STYLECHANGED(SENDER:TObject)
15766: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
15767: procedure Succ(X: int64);
15768: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
15769: procedure SwapChar(var X,Y: char); //swapX follows
15770: Procedure SwapFloats( var X, Y : Float)
15771: procedure SwapGrid(grd: TStringGrid);
15772: Procedure SwapOrd( var I, J : Byte);
15773: Procedure SwapOrd( var X, Y : Integer)
15774: Procedure SwapOrd1( var I, J : Shortint);
15775: Procedure SwapOrd2( var I, J : Smallint);
15776: Procedure SwapOrd3( var I, J : Word);
15777: Procedure SwapOrd4( var I, J : Integer);
15778: Procedure SwapOrd5( var I, J : Cardinal);
15779: Procedure SwapOrd6( var I, J : Int64);
15780: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
15781: Procedure Synchronizel( Method : TMethod);
15782: procedure SyntaxCheck1Click(Sender: TObject);
15783: Procedure SysFreeString(const S: WideString); stdcall;
15784: Procedure TakeOver( Other : TLinearBitmap)
15785: Procedure TalkIn(const sText: string) //async voice
15786: procedure tbtn6resClick(Sender: TObject);
15787: Procedure tbtnUseCaseClick( Sender : TObject)

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15788: procedure TerminalStyle1Click(Sender: TObject);
15789: Procedure Terminate
15790: Procedure texSyntax1Click( Sender : TObject)
15791: procedure TextOut(X, Y: Integer; Text: string);
15792: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
15793: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
15794: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
15795: TextStart
15796: procedure TILE
15797: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
15798: Procedure TitleClick( Column : TColumn)
15799: Procedure ToDo
15800: procedure toolbtnTutorialClick(Sender: TObject);
15801: Procedure Trace1( AURL : string; const AResponseContent : TStream);
15802: Procedure TransferMode( ATransferMode : TIdFTPTransferMode)
15803: Procedure Truncate
15804: procedure Tutorial101Click(Sender: TObject);
15805: procedure Tutorial10Statistics1Click(Sender: TObject);
15806: procedure Tutorial11Forms1Click(Sender: TObject);
15807: procedure Tutorial12SQL1Click(Sender: TObject);
15808: Procedure tutorial1Click( Sender : TObject)
15809: Procedure tutorial21Click( Sender : TObject)
15810: Procedure tutorial31Click( Sender : TObject)
15811: Procedure tutorial4Click( Sender : TObject)
15812: Procedure Tutorial5Click( Sender : TObject)
15813: procedure Tutorial6Click(Sender: TObject);
15814: procedure Tutorial91Click(Sender: TObject);
15815: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
15816: procedure UniqueString(var str: AnsiString)
15817: procedure UnloadLoadPackage(Module: HMODULE)
15818: Procedure Unlock
15819: Procedure UNMERGE( MENU : TMAINMENU)
15820: Procedure UnRegisterChanges( Value : TChangeLink)
15821: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
15822: Procedure UnregisterConversionType( const AType : TConvType)
15823: Procedure UnRegisterProvider( Prov : TCustomProvider)
15824: Procedure UPDATE
15825: Procedure UpdateBatch( AffectRecords : TAffectRecords)
15826: Procedure UPDATECURSORPOS
15827: Procedure UpdateFile
15828: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
15829: Procedure UpdateResponse( AResponse : TWebResponse)
15830: Procedure UpdateScrollBar
15831: Procedure UpdateView1Click( Sender : TObject)
15832: procedure Val(const s: string; var n, z: Integer)
15833: procedure VarArraySet(c: Variant; I: Integer; var s: Variant);
15834: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
15835: Procedure VariantAdd( const src : Variant; var dst : Variant)
15836: Procedure VariantAnd( const src : Variant; var dst : Variant)
15837: Procedure VariantArrayRedim( var V : Variant; High : Integer)
15838: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
15839: Procedure VariantClear( var V : Variant)
15840: Procedure VariantCpy( const src : Variant; var dst : Variant)
15841: Procedure VariantDiv( const src : Variant; var dst : Variant)
15842: Procedure VariantMod( const src : Variant; var dst : Variant)
15843: Procedure VariantMul( const src : Variant; var dst : Variant)
15844: Procedure VariantOr( const src : Variant; var dst : Variant)
15845: Procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer);
15846: Procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer);
15847: Procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer);
15848: Procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer);
15849: Procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer);
15850: Procedure VariantShl( const src : Variant; var dst : Variant)
15851: Procedure VariantShr( const src : Variant; var dst : Variant)
15852: Procedure VariantSub( const src : Variant; var dst : Variant)
15853: Procedure VariantXor( const src : Variant; var dst : Variant)
15854: Procedure VarCastError;
15855: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
15856: Procedure VarInvalidOp
15857: Procedure VarInvalidNullOp
15858: Procedure VarOverflowError( const ASourceType, ADestType : TVarType)
15859: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType)
15860: Procedure VarArrayCreateError
15861: Procedure VarResultCheck( AResult : HRESULT);
15862: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
15863: Procedure HandleConversionException( const ASourceType, ADestType : TVarType)
15864: Function VarTypeAsText( const AType : TVarType) : string
15865: procedure Voice(const sText: string) //sync
15866: procedure Voice2(const sText: string) //sync
15867: Procedure WaitMiliSeconds( AMSec : word)
15868: Procedure WideAppend( var dst : WideString; const src : WideString)
15869: Procedure WideAssign( var dst : WideString; var src : WideString)
15870: Procedure WideDelete( var dst : WideString; index, count : Integer)
15871: Procedure WideFree( var s : WideString)
15872: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
15873: Procedure WideFromPChar( var dst : WideString; src : PChar)
15874: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
15875: Procedure WideSetLength( var dst : WideString; len : Integer)
15876: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)

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15877: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
15878: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
15879: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
15880: Procedure HttpGet(const Url: string; Stream:TStream);
15881: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIdBytes; Index : integer)
15882: Procedure WordWrapClick( Sender : TObject)
15883: Procedure Write( const AOut : string)
15884: Procedure Write( Socket : TSocket)
15885: procedure Write(S: string);
15886: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
15887: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
15888: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
15889: procedure WriteBuffer(Buffer:String;Count:LongInt)
15890: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
15891: Procedure WriteChar( AValue : Char)
15892: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
15893: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
15894: Procedure WriteFloat( const Section, Name : string; Value : Double)
15895: Procedure WriteHeader( AHeader : TStrings)
15896: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
15897: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
15898: Procedure WriteLn( const AOut : string)
15899: procedure Writeln(s: string);
15900: Procedure WriteLog( const FileName, LogLine : string)
15901: Procedure WriteRFCReply( AReply : TIdRFCReply)
15902: Procedure WriteRFCStrings( AStrings : TStrings)
15903: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
15904: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASize:Int)
15905: Procedure WriteString( const Section, Ident, Value : string)
15906: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
15907: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
15908: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
15909: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
15910: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
15911: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
15912: procedure XMLSyntaxlClick(Sender: TObject);
15913: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
15914: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
15915: Procedure ZeroFillStream( Stream : TMemoryStream)
15916: procedure XMLSyntaxlClick(Sender: TObject);
15917: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
15918: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
15919: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
15920: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
15921: procedure(Sender, Source: TObject; X, Y: Integer)
15922: procedure(Sender, Target: TObject; X, Y: Integer)
15923: procedure(Sender: TObject; ASection, AWidth: Integer)
15924: procedure(Sender: TObject; ScrollCode: TScrollCode;var ScrollPos: Integer)
15925: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
15926: procedure(Sender: TObject; var Action: TCloseAction)
15927: procedure(Sender: TObject; var CanClose: Boolean)
15928: procedure(Sender: TObject; var Key: Char);
15929: ProcedureName ProcedureNames ProcedureParametersCursor @
15930:
15931: *****Now Constructors constructor *****
15932: Size is: 1115 996 628 550 544 501 459 (381) (360) (270 246) (235)
15933: Attach( VersionInfoData : Pointer; Size : Integer)
15934: constructor Create( ABuckets : TBucketListSizes)
15935: Create( ACallbackWnd : HWND)
15936: Create( AClient : TCustomTaskDialog)
15937: Create( AClient : TIdTelnet)
15938: Create( ACollection : TCollection)
15939: Create( ACollection : TFavoriteLinkItems)
15940: Create( ACollection : TTaskDialogButtons)
15941: Create( AConnection : TIdCustomHTTP)
15942: Create( ACreateSuspended : Boolean)
15943: Create( ADataSet : TCustomSQLDataSet)
15944: CREATE( ADATASET : TDATASET)
15945: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
15946: Create( AGrid : TCustomDBGrid)
15947: Create( AGrid : TStringGrid; AIndex : Longint)
15948: Create( AHTTP : TIdCustomHTTP)
15949: Create( AListItems : TListItems)
15950: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
15951: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
15952: Create( AOwner : TCommonCalendar)
15953: Create( AOwner : TComponent)
15954: CREATE( AOWNER : TCOMPONENT)
15955: Create( AOwner : TCustomListView)
15956: Create( AOwner : TCustomOutline)
15957: Create( AOwner : TCustomRichEdit)
15958: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
15959: Create( AOwner : TCustomTreeView)
15960: Create( AOwner : TIdUserManager)
15961: Create( AOwner : TListItems)
15962: Create( AOwner :
TObject; Handle:hDBICur;CBType:CBType;CBBuf:Pointer;CBBufSize:Int;CallbackEvent:TBDECallbackEvent; Chain :
Boolean)
15963: CREATE( AOWNER : TPERERSISTENT)

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15964: Create( AOwner : TPersistent)
15965: Create( AOwner : TTable)
15966: Create( AOwner : TTreeNode)
15967: Create( AOwner : TWinControl; const ClassName : string)
15968: Create( AParent : TIdCustomHTTP)
15969: Create( AParent : TUpdateTree; AResolver : TCustomResolver)
15970: Create( AProvider : TBaseProvider)
15971: Create( AProvider : TCustomProvider);
15972: Create( AProvider : TDataSetProvider)
15973: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
15974: Create( ASocket : TSocket)
15975: Create( AStrings : TWideStrings)
15976: Create( AToolBar : TToolBar)
15977: Create( ATreeNode : TTreeNode)
15978: Create( Autofill : boolean)
15979: Create( AWebPageInfo : TAbstractWebPageInfo)
15980: Create( AWebRequest : TWebRequest)
15981: Create( Collection : TCollection)
15982: Create( Collection : TIdMessageParts; ABody : TStrings)
15983: Create( Collection : TIdMessageParts; const AFileName : TFileName)
15984: Create( Column : TColumn)
15985: Create( const AConvFamily : TConvFamily; const ADescription : string)
15986: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
15987: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
AFromCommonProc : TConversionProc)
15988: Create( const AInitialState : Boolean; const AManualReset : Boolean)
15989: Create( const ATabSet : TTabSet)
15990: Create( const Compensate : Boolean)
15991: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
15992: Create( const FileName : string)
15993: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
: Int64; const SecAttr : PSecurityAttributes);
15994: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
15995: Create( const MaskValue : string)
15996: Create( const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
15997: Create( const Prefix : string)
15998: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
15999: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
16000: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
16001: Create( CoolBar : TCoolBar)
16002: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
16003: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
16004: Create( DataSet : TDataSet; const
Text:Widestring;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : Widestring;
DepFields : TBits; FieldMap : TFieldMap)
16005: Create( DBCtrlGrid : TDBCtrlGrid)
16006: Create( DStableProducer : TDStableProducer)
16007: Create( DStableProducer : TDStableProducer; ColumnClass : THTMLTableColumnClass)
16008: Create( ErrorCode : DBIResult)
16009: Create( Field : TBlobField; Mode : TBlobStreamMode)
16010: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
16011: Create( HeaderControl : TCustomHeaderControl)
16012: Create( HTTPRequest : TWebRequest)
16013: Create( iStart : integer; sText : string)
16014: Create( iValue : Integer)
16015: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
16016: Create( MciErrNo : MCIERROR; const Msg : string)
16017: Create( MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
16018: Create( Message : string; ErrorCode : DBResult)
16019: Create( Msg : string)
16020: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
16021: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
16022: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
16023: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
16024: Create( oSource:TniRegularExpressionState;oDestination:TniRegularExprState;xCharacts:TCharSet;bLambda:bool)
16025: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
16026: Create( Owner : TCustomComboBoxEx)
16027: CREATE( OWNER : TINDEXTDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXTOPTIONS)
16028: Create( Owner : TPersistent)
16029: Create( Params : TStrings)
16030: Create( Size : Cardinal)
16031: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
16032: Create( StatusBar : TCustomStatusBar)
16033: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
16034: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
16035: Create(AHandle:Integer)
16036: Create(AOwner: TComponent); virtual;
16037: Create(const AURI : string)
16038: Create(FileName:String;Mode:Word)
16039: Create(Instance:THandle;ResName:String;ResType:PChar)
16040: Create(Stream : TStream)
16041: Create( ADataset : TDataset);
16042: Create( const FileHandle:THandle;const Name:string;Protect:Cardinal;const MaximumSize:Int64;const
SecAttr:PSecurityAttributes);
16043: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
16044: Create2( Other : TObject);
16045: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
16046: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
16047: CreateFmt( MciErrNo : MCIERROR; const Msg : string; const Args : array of const)

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16048: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
16049: CreateLinked( DBCtrlGrid : TDBCtrlGrid)
16050: CREATENEW(AOWNER:TComponent; Dummy: Integer)
16051: CreateRes( Ident : Integer);
16052: CreateRes( MciErrNo : MCIERROR; Ident : Integer)
16053: CreateRes( ResStringRec : PresStringRec);
16054: CreateResHelp( Ident : Integer; AHelpContext : Integer);
16055: CreateResHelp( ResStringRec : PresStringRec; AHelpContext : Integer);
16056: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
16057: CreateSize( AWidth, AHeight : Integer)
16058: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
16059:
16060: -----
16061: unit uPSI_MathMax;
16062: -----
16063: CONSTS
16064: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
16065: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
16066: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
16067: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
16068: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
16069: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(Pi)
16070: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
16071: Pi: Float = 3.1415926535897932384626433832795; // PI
16072: PI_Extended = 3.1415926535897932384626433832795;
16073: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
16074: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
16075: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
16076: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
16077: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
16078: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
16079: Sqrt10: Float = 3.1622776601683793319988935444327; // Sqrt(10)
16080: SqrtPi: Float = 1.7724538509055160272981674833411; // Sqrt(Pi)
16081: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
16082: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
16083: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
16084: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
16085: Ln10: Float = 2.3025850929940456840179914546844; // Ln(10)
16086: LnPi: Float = 1.1447298858494001741434273513531; // Ln(Pi)
16087: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
16088: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
16089: LogPi: Float = 0.4971498726941338543512682882909; // Log10(Pi)
16090: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
16091: E: Float = 2.7182818284590452353602874713527; // Natural constant
16092: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2*PI)/2
16093: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
16094: TwoToPower63: Float = 9223372036854775808.0; // 2^63
16095: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
16096: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
16097: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
16098: StDelta : Extended = 0.00001; {delta for difference equations}
16099: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
16100: StMaxIterations : Integer = 100; {max attempts for convergence}
16101:
16102: MaxAngle', ( 9223372036854775808.0);
16103: MaxTanH', ( 5678.2617031470719747459655389854);
16104: MaxFactorial', 'LongInt').SetInt( 1754);
16105: MaxFloatingPoint', (1.189731495357231765085759326628E+4932);
16106: MinFloatingPoint', (3.3621031431120935062626778173218E-4932);
16107: MaxTanH', ( 354.89135644669199842162284618659);
16108: MaxFactorial', 'LongInt').SetInt( 170);
16109: MaxFloatingPointD', (1.797693134862315907729305190789E+308);
16110: MinFloatingPointD', (2.2250738585072013830902327173324E-308);
16111: MaxTanH', ( 44.361419555836499802702855773323);
16112: MaxFactorial', 'LongInt').SetInt( 33);
16113: MaxFloatingPointS', ( 3.4028236692093846337460743177E+38);
16114: MinFloatingPointS', ( 1.175494350822875079687365372222E-38);
16115: PiExt', ( 3.1415926535897932384626433832795);
16116: RatioDegToRad', ( PiExt / 180.0);
16117: RatioGradToRad', ( PiExt / 200.0);
16118: RatioDegToGrad', ( 200.0 / 180.0);
16119: RatioGradToDeg', ( 180.0 / 200.0);
16120: Crc16PolynomCCITT', 'LongWord').SetUInt( $1021);
16121: Crc16PolynomIBM', 'LongWord').SetUInt( $8005);
16122: Crc16Bits', 'LongInt').SetInt( 16);
16123: Crc16Bytes', 'LongInt').SetInt( 2);
16124: Crc16HighBit', 'LongWord').SetUInt( $8000);
16125: NotCrc16HighBit', 'LongWord').SetUInt( $7FFF);
16126: Crc32PolynomIEEE', 'LongWord').SetUInt( $04C11DB7);
16127: Crc32PolynomCastagnoli', 'LongWord').SetUInt( $1EDC6F41);
16128: Crc32Koopman', 'LongWord').SetUInt( $741B8CD7);
16129: Crc32Bits', 'LongInt').SetInt( 32);
16130: Crc32Bytes', 'LongInt').SetInt( 4);
16131: Crc32HighBit', 'LongWord').SetUInt( $80000000);
16132: NotCrc32HighBit', 'LongWord').SetUInt( $7FFFFFFF);
16133:
16134: MinByte = Low(Byte);
16135: MaxByte = High(Byte);
16136: MinWord = Low(Word);

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16137: MaxWord      = High(Word);
16138: MinShortInt   = Low(ShortInt);
16139: MaxShortInt   = High(ShortInt);
16140: MinSmallInt   = Low(SmallInt);
16141: MaxSmallInt   = High(SmallInt);
16142: MinLongWord   = LongWord(Low(LongWord));
16143: MaxLongWord   = LongWord(High(LongWord));
16144: MinLongInt    = LongInt(Low(LongInt));
16145: MaxLongInt    = LongInt(High(LongInt));
16146: MinInt64      = Int64(Low(Int64));
16147: MaxInt64      = Int64(High(Int64));
16148: MinInteger    = Integer(Low(Integer));
16149: MaxInteger    = Integer(High(Integer));
16150: MinCardinal   = Cardinal(Low(Cardinal));
16151: MaxCardinal   = Cardinal(High(Cardinal));
16152: MinNativeUInt = NativeUInt(Low(NativeUInt));
16153: MaxNativeUInt = NativeUInt(High(NativeUInt));
16154: MinNativeInt  = NativeInt(Low(NativeInt));
16155: MaxNativeInt  = NativeInt(High(NativeInt));
16156: Function CosH(const Z : Float) : Float;
16157: Function SinH(const Z : Float) : Float;
16158: Function TanH(const Z : Float) : Float;
16159:
16160:
16161: *****from DMath.Dll Lib of types.inc in source\dmath_dll
16162: InvLn2      = 1.44269504088896340736; { 1/Ln(2) }
16163: InvLn10     = 0.43429448190325182765; { 1/Ln(10) }
16164: TwoPi       = 6.28318530717958647693; { 2*Pi }
16165: PiDiv2      = 1.57079632679489661923; { Pi/2 }
16166: SqrtPi      = 1.77245385090551602730; { Sqrt(Pi) }
16167: Sqrt2Pi     = 2.50662827463100050242; { Sqrt(2*Pi) }
16168: InvSqrt2Pi  = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
16169: LnSqrt2Pi   = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
16170: Ln2PiDiv2   = 0.91893853320467274178; { Ln(2*Pi)/2 }
16171: Sqrt2       = 1.41421356237309504880; { Sqrt(2) }
16172: Sqrt2Div2   = 0.70710678118654752440; { Sqrt(2)/2 }
16173: Gold        = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
16174: CGold       = 0.38196601125010515179; { 2 - GOLD }
16175: MachEp      = 2.220446049250313E-16; { 2^(-52) }
16176: MaxNum      = 1.797693134862315E+308; { 2^1024 }
16177: MinNum      = 2.225073858507202E-308; { 2^(-1022) }
16178: MaxLog      = 709.7827128933840;
16179: MinLog      = -708.3964185322641;
16180: MaxFac      = 170;
16181: MaxGam      = 171.624376956302;
16182: MaxLgm      = 2.556348E+305;
16183: SingleCompareDelta = 1.0E-34;
16184: DoubleCompareDelta = 1.0E-280;
16185: { $IFDEF CLR }
16186: ExtendedCompareDelta = DoubleCompareDelta;
16187: { $ELSE }
16188: ExtendedCompareDelta = 1.0E-4400;
16189: { $ENDIF }
16190: Bytes1KB    = 1024;
16191: Bytes1MB    = 1024 * Bytes1KB;
16192: Bytes1GB    = 1024 * Bytes1MB;
16193: Bytes64KB   = 64 * Bytes1KB;
16194: Bytes64MB   = 64 * Bytes1MB;
16195: Bytes2GB    = 2 * LongWord(Bytes1GB);
16196: clBlack32' , $FF000000 );
16197: clDimGray32' , $FF3F3F3F );
16198: clGray32' , $FF7F7F7F );
16199: clLightGray32' , $FFBFBFBF );
16200: clWhite32' , $FFFFFFF );
16201: clMaroon32' , $FF7F0000 );
16202: clGreen32' , $FF007F00 );
16203: clOlive32' , $FF7F7F00 );
16204: clNavy32' , $FF00007F );
16205: clPurple32' , $FF7F007F );
16206: clTeal32' , $FF007F7F );
16207: clRed32' , $FFFF0000 );
16208: clLime32' , $FF00FF00 );
16209: clYellow32' , $FFFFFFF0 );
16210: clBlue32' , $FF0000FF );
16211: clFuchsia32' , $FFFF00FF );
16212: clAqua32' , $FF00FFFF );
16213: clAliceBlue32' , $FFF0F8FF );
16214: clAntiqueWhite32' , $FFFAEBD7 );
16215: clAquamarine32' , $FFF7FFD4 );
16216: clAzure32' , $FFF0FFFF );
16217: clBeige32' , $FFF5F5DC );
16218: clBisque32' , $FFFFE4C4 );
16219: clBlancheDalmont32' , $FFFFEBCD );
16220: clBlueViolet32' , $FF8A2BE2 );
16221: clBrown32' , $FFA52A2A );
16222: clBurlyWood32' , $FFDEB887 );
16223: clCadetblue32' , $FF5F9EA0 );
16224: clChartReuse32' , $FF7FFF00 );
16225: clChocolate32' , $FFD2691E );

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16226: clCoral32', $FFFF7F50 );
16227: clCornFlowerBlue32', $FF6495ED );
16228: clCornSilk32', $FFFFFF8DC );
16229: clCrimson32', $FFDC143C );
16230: clDarkBlue32', $FF00008B );
16231: clDarkCyan32', $FF008B8B );
16232: clDarkGoldenRod32', $FFB8860B );
16233: clDarkGray32', $FFA9A9A9 );
16234: clDarkGreen32', $FF006400 );
16235: clDarkGrey32', $FFA9A9A9 );
16236: clDarkKhaki32', $FFBDB76B );
16237: clDarkMagenta32', $FF8B008B );
16238: clDarkOliveGreen32', $FF556B2F );
16239: clDarkOrange32', $FFFF8C00 );
16240: clDarkOrchid32', $FF9932CC );
16241: clDarkRed32', $FF8B0000 );
16242: clDarkSalmon32', $FFE9967A );
16243: clDarkSeaGreen32', $FF8FBC8F );
16244: clDarkSlateBlue32', $FF483D8B );
16245: clDarkSlateGray32', $FF2F4F4F );
16246: clDarkSlateGrey32', $FF2F4F4F );
16247: clDarkTurquoise32', $FF00CED1 );
16248: clDarkViolet32', $FF9400D3 );
16249: clDeepPink32', $FFFFFF1493 );
16250: clDeepSkyBlue32', $FF00BFFF );
16251: clDodgerBlue32', $FF1E90FF );
16252: clFireBrick32', $FFB22222 );
16253: clFloralWhite32', $FFFFFFFAF0 );
16254: clGainsboro32', $FFDCDCDC );
16255: clGhostWhite32', $FFF8F8FF );
16256: clGold32', $FFFFD700 );
16257: clGoldenRod32', $FFDAA520 );
16258: clGreenYellow32', $FFADFF2F );
16259: clGrey32', $FF808080 );
16260: clHoneyDew32', $FFF0FFF0 );
16261: clHotPink32', $FFFF69B4 );
16262: clIndianRed32', $FFCD5C5C );
16263: clIndigo32', $FF4B0082 );
16264: clIvory32', $FFFFFFF0 );
16265: clKhaki32', $FFF0E68C );
16266: clLavender32', $FFE6E6FA );
16267: clLavenderBlush32', $FFF0F0F5 );
16268: clLawnGreen32', $FF7CFC00 );
16269: clLemonChiffon32', $FFFFFFFACD );
16270: clLightBlue32', $FFADD8E6 );
16271: clLightCoral32', $FFF08080 );
16272: clLightCyan32', $FFE0FFFF );
16273: clLightGoldenRodYellow32', $FFFAFAD2 );
16274: clLightGreen32', $FF90EE90 );
16275: clLightGrey32', $FFD3D3D3 );
16276: clLightPink32', $FFFB6C1 );
16277: clLightSalmon32', $FFFA07A );
16278: clLightSeagreen32', $FF20B2AA );
16279: clLightSkyblue32', $FF87CEFA );
16280: clLightSlategray32', $FF778899 );
16281: clLightSlategrey32', $FF778899 );
16282: clLightSteelblue32', $FFB0C4DE );
16283: clLightYellow32', $FFFFFFFE0 );
16284: clLtGray32', $FFC0C0C0 );
16285: clMedGray32', $FFA0A0A4 );
16286: clDkGray32', $FF808080 );
16287: clMoneyGreen32', $FFC0DCC0 );
16288: clLegacySkyBlue32', $FFA6CAF0 );
16289: clCream32', $FFFFFFBF0 );
16290: clLimeGreen32', $FF32CD32 );
16291: clLinen32', $FFFAF0E6 );
16292: clMediumAquamarine32', $FF66CDAA );
16293: clMediumBlue32', $FF0000CD );
16294: clMediumOrchid32', $FFBA55D3 );
16295: clMediumPurple32', $FF9370DB );
16296: clMediumSeaGreen32', $FF3CB371 );
16297: clMediumSlateBlue32', $FF7B68EE );
16298: clMediumSpringGreen32', $FF00FA9A );
16299: clMediumTurquoise32', $FF48D1CC );
16300: clMediumVioletRed32', $FFC71585 );
16301: clMidnightBlue32', $FF191970 );
16302: clMintCream32', $FFF5FFFA );
16303: clMistyRose32', $FFFFFFE4E1 );
16304: clMoccasin32', $FFFFFFE4B5 );
16305: clNavajoWhite32', $FFFFFFDEAD );
16306: clOldLace32', $FFFD5E6 );
16307: clOliveDrab32', $FF6B8E23 );
16308: clOrange32', $FFFA500 );
16309: clOrangeRed32', $FFFA4500 );
16310: clOrchid32', $FFDA70D6 );
16311: clPaleGoldenRod32', $FFEE8AA );
16312: clPaleGreen32', $FF98FB98 );
16313: clPaleTurquoise32', $FFAFEEEE );
16314: clPaleVioletred32', $FFDB7093 );
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16315:   clPapayaWhip32', $FFFFFFD5 ));
16316:   clPeachPuff32', $FFFFDAB9 ));
16317:   clPeru32', $FFCD853F ));
16318:   clPlum32', $FFDDA0DD ));
16319:   clPowderBlue32', $FFB0E0E6 ));
16320:   clRosyBrown32', $FFBC8F8F ));
16321:   clRoyalBlue32', $FF4169E1 ));
16322:   clSaddleBrown32', $FF8B4513 ));
16323:   clSalmon32', $FFFA8072 ));
16324:   clSandyBrown32', $FFFA4A60 ));
16325:   clSeaGreen32', $FF2E8B57 ));
16326:   clSeaShell32', $FFFFFFEE ));
16327:   clSienna32', $FFA0522D ));
16328:   clSilver32', $FFC0C0C0 ));
16329:   clSkyblue32', $FF87CEEB ));
16330:   clSlateBlue32', $FF6A5ACD ));
16331:   clSlateGray32', $FF708090 ));
16332:   clSlateGrey32', $FF708090 ));
16333:   clSnow32', $FFFFFFFA ));
16334:   clSpringgreen32', $FF00FF7F ));
16335:   clSteelblue32', $FF4682B4 ));
16336:   clTan32', $FFD2B48C ));
16337:   clThistle32', $FFD8BFD8 ));
16338:   clTomato32', $FFFF6347 ));
16339:   clTurquoise32', $FF40E0D0 ));
16340:   clViolet32', $FFEE82EE ));
16341:   clWheat32', $FFF5DEB3 ));
16342:   clWhitesmoke32', $FFF5F5F5 ));
16343:   clYellowgreen32', $FF9ACD32 ));
16344:   clTrWhite32', $7FFFFFFF ));
16345:   clTrBlack32', $7F000000 ));
16346:   clTrRed32', $7FFF0000 ));
16347:   clTrGreen32', $7F00FF00 ));
16348:   clTrBlue32', $7F0000FF ));
16349:   // Fixed point math constants
16350:   FixedOne = $10000; FixedHalf = $7FFF;
16351:   FixedPI = Round(PI * FixedOne);
16352:   FixedToFloat = 1/FixedOne;
16353:
16354: Special Types
16355: *****
16356:   type Complex = record
16357:     X, Y : Float;
16358:   end;
16359:   type TVector = array of Float;
16360:   TIntVector = array of Integer;
16361:   TCompVector = array of Complex;
16362:   TBoolVector = array of Boolean;
16363:   TStrVector = array of String;
16364:   TMatrix = array of TVector;
16365:   TIntMatrix = array of TIntVector;
16366:   TCompMatrix = array of TCompVector;
16367:   TBoolMatrix = array of TBoolVector;
16368:   TStrMatrix = array of TStrVector;
16369:   TByteArray = array[0..32767] of byte; !
16370:   THexArray = array [0..15] of Char; // = '0123456789ABCDEF';
16371:   TBitmapStyle = (bsNormal, bsCentered, bsStretched);
16372:   T2StringArray = array of array of string;
16373:   T2IntegerArray = array of array of integer;
16374:   AddTypeS('INT_PTR', 'Integer
16375:   AddTypeS('LONG_PTR', 'Integer
16376:   AddTypeS('UINT_PTR', 'Cardinal
16377:   AddTypeS('ULONG_PTR', 'Cardinal
16378:   AddTypeS('DWORD_PTR', 'ULONG_PTR
16379:   TIntegerDynArray', 'array of Integer
16380:   TCardinalDynArray', 'array of Cardinal
16381:   TWordDynArray', 'array of Word
16382:   TSmallIntDynArray', 'array of SmallInt
16383:   TByteDynArray', 'array of Byte
16384:   TShortIntDynArray', 'array of ShortInt
16385:   TInt64DynArray', 'array of Int64
16386:   TLongWordDynArray', 'array of LongWord
16387:   TSingleDynArray', 'array of Single
16388:   TDoubleDynArray', 'array of Double
16389:   TBooleanDynArray', 'array of Boolean
16390:   TStringDynArray', 'array of string
16391:   TWideStringDynArray', 'array of WideString
16392:   TDynByteArray = array of Byte;
16393:   TDynShortintArray = array of Shortint;
16394:   TDynSmallintArray = array of Smallint;
16395:   TDynWordArray = array of Word;
16396:   TDynIntegerArray = array of Integer;
16397:   TDynLongintArray = array of Longint;
16398:   TDynCardinalArray = array of Cardinal;
16399:   TDynInt64Array = array of Int64;
16400:   TDynExtendedArray = array of Extended;
16401:   TDynDoubleArray = array of Double;
16402:   TDynSingleArray = array of Single;
16403:   TDynFloatArray = array of Float;

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16404: TDynPointerArray = array of Pointer;
16405: TDynStringArray = array of string;
16406: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
16407:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
16408: TSynSearchOptions = set of TSynSearchOption;
16409:
16410:
16411:
16412: /** Project : Base Include RunTime Lib for maXbox *Name: pas_includebox.inc
16413: -----
16414: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
16415: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
16416: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
16417: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
16418: function CheckStringSum(vstring: string): integer;
16419: function HexToInt(HexNum: string): LongInt;
16420: function IntToBin(Int: Integer): String;
16421: function BinToInt(Binary: String): Integer;
16422: function HexToBin(HexNum: string): string; external2
16423: function BinToHex(Binary: String): string;
16424: function IntToFloat(i: Integer): double;
16425: function AddThousandSeparator(S: string; myChr: Char): string;
16426: function Max3(const X,Y,Z: Integer): Integer;
16427: procedure Swap(var X,Y: char); // faster without inline
16428: procedure ReverseString(var S: String);
16429: function CharToHexStr(Value: Char): string;
16430: function CharToUnicode(Value: Char): string;
16431: function Hex2Dec(Value: Str002): Byte;
16432: function HexStrCodeToStr(Value: string): string;
16433: function HexToStr(i: integer; value: string): string;
16434: function UnicodeToStr(Value: string): string;
16435: function CRC16(statement: string): string;
16436: function SearchForSubstrings(aStrList: TStringList; aSearchStr1, aSearchStr2: string): string;
16437: procedure SearchAndReplace(aStrList: TStringList; aSearchStr, aNewStr: string);
16438: procedure ShowInterfaces(myFile: string);
16439: function Fact2(av: integer): extended;
16440: function BoolToStr(B: Boolean): string;
16441: function GCD(x, y : LongInt) : LongInt;
16442: function LCM(m,n: longint): longint;
16443: function GetASCII: string;
16444: function GetItemHeight(Font: TFont): Integer;
16445: function myPlaySound(s: pchar; flag, syncflag: integer): boolean;
16446: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
16447: function getHINSTANCE: longword;
16448: function getHMODULE: longword;
16449: function GetASCII: string;
16450: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
16451: function WordIsOk(const AWord: string; var VW: Word): boolean;
16452: function TwentyFourBitValueIsOk(const AValue: string; var VI: Integer): boolean;
16453: function LongIsOk(const ALong: string; var VC: Cardinal): boolean;
16454: function SafeStr(const s: string): string;
16455: function ExtractUrlPath(const FileName: string): string;
16456: function ExtractUrlName(const FileName: string): string;
16457: function IsInternet: boolean;
16458: function RotateLeft1Bit_u32( Value: uint32): uint32;
16459: procedure LinearRegression(const KnownY: array of Double; const KnownX: array of Double; NData: Int; var
  LF: TStLinEst; ErrorStats : Boolean);
16460: procedure getEnvironmentInfo;
16461: procedure AntiFreeze;
16462: function GetCPUSpeed: Double;
16463: function IsVirtualPcGuest : Boolean;
16464: function IsVmWareGuest : Boolean;
16465: procedure StartSerialDialog;
16466: function IsWoW64: boolean;
16467: function IsWow64String(var s: string): Boolean;
16468: procedure StartThreadDemo;
16469: function RGB(R,G,B: Byte): TColor;
16470: function Sendln(amess: string): boolean;
16471: procedure maXbox;
16472: function AspectRatio(aWidth, aHeight: Integer): String;
16473: function wget(aURL, afile: string): boolean;
16474: procedure PrintList(Value: TStringList);
16475: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
16476: procedure getEnvironmentInfo;
16477: procedure AntiFreeze;
16478: function getBitmap(aphath: string): TBitmap;
16479: procedure ShowMessageBig(const aText : string);
16480: function YesNoDialog(const ACaption, AMsg: string): boolean;
16481: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
16482: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
16483: //function myStrToBytes(const Value: String): TBytes;
16484: //function myBytesToStr(const Value: TBytes): String;
16485: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
16486: function getBitmap(aphath: string): TBitmap;
16487: procedure ShowMessageBig(const aText : string);
16488: function StrToBytes(const Value: String): TBytes;
16489: function BytesToStr(const Value: TBytes): String;
16490: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
16491: function ReverseDNSLookup(const IPAdrs: String; const DNSServer: String; Timeout, Retries: Int; var
  HostName: String): Bool;

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16492: function FindInPaths(const fileName, paths : String) : String;
16493: procedure initHexArray(var hexn: THexArray);
16494: function josephusG(n,k: integer; var graphout: string): integer;
16495: function isPowerOf2(num: int64): boolean;
16496: function powerOf2(exponent: integer): int64;
16497: function getBigPI: string;
16498: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
16499: function GetASCIILine: string;
16500: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
16501:     pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
16502: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
16503: procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
16504: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
16505: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
16506: function isKeyPressed: boolean;
16507: function Keypress: boolean;
16508: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
16509: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
16510: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
16511: function GetOSName: string;
16512: function GetOSVersion: string;
16513: function GetOSNumber: string;
16514: function getEnvironmentString: string;
16515: procedure StrReplace(var Str: String; Old, New: String);
16516: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
16517: function getTeamViewerID: string;
16518: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
16519: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
16520: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
16521: procedure GetQRcode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
16522: function StartSocketService: Boolean;
16523: procedure StartSocketServiceForm;
16524: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
16525: function GetFileList1(apath: string): TStringlist;
16526: procedure LetFileList(FileList: TStringlist; apath: string);
16527: procedure StartWeb(aurl: string);
16528: function GetTodayFiles(startdir, amask: string): TStringlist;
16529: function PortTCPisOpen(dwPort : Word; ipAddressStr: String): boolean;
16530: function JavahashCode(val: string): Integer;
16531: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
16532: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
16533: Procedure HideWindowForSeconds(secs: integer); {///3 seconds}
16534: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); {///3 seconds}
16535: Procedure ConvertToGray(Cnv: TCanvas);
16536: function GetFileDate(aFile:string; aWithTime:Boolean):string;
16537: procedure ShowMemory;
16538: function ShowMemory2: string;
16539: function getHostIP: string;
16540: procedure ShowBitmap(bmap: TBitmap);
16541: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
16542:
16543:
16544: // News of 3.9.8 up
16545: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
16546: Conversion Routines, Prebuild Forms, more RCDData, DebugOutString
16547: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
16548: JvChart - TjvChart Component - 2009 Public
16549: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
16550: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
16551: TAdoQuery.SQL.Add() fixed, ShLwAPI extensions, Indy HTTPHeader Extensions
16552: DMATH DLL included incl. Demos
16553: Interface Navigator menu/View/Intf Navigator
16554: Unit Explorer menu/Debug/Units Explorer
16555: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maxXcel
16556: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
16557: Script History to 9 Files WebServer light /Options/Addons/WebServer
16558: Full Text Finder, JVSIMLogic Simulator Package
16559: Halt-Stop Program in Menu, WebServer2, Stop Event ,
16560: Conversion Routines, Prebuild Forms, CodeSearch
16561: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
16562: Conversion Routines, Prebuild Forms, more RCDData, DebugOutString
16563: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
16564: JvChart - TjvChart Component - 2009 Public, mXGames, JvgXMLSerializer, TjvPaintFX
16565: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
16566: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
16567: IDE Reflection API, Session Service Shell S3
16568: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
16569: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
16570: arduino map() function, PMRandom Generator
16571: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
16572: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
16573: REST Test Lib, Multilang Component, Forth Interpreter
16574: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
16575: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
16576: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
16577: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
16578: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
16579: QRCode Service, add more CFunctions like CDateTime of Synapse
16580: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL

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16581: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
16582: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
16583: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
16584: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
16585: BOLD Package, Indy Package5, maTRix, MATHEMAX
16586: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
16587: emax layers: system-package-component-unit-class-function-block
16588: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
16589: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
16590: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
16591: OpenGL Game Demo: ..Options/Add Ons/Reversi
16592: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
16593: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
16594: 7% performance gain (hot spot profiling)
16595: PEP -Pascal Education Program, GSM Module, CGI, PHP Runner
16596: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
16597: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
16598: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
16599:
16600: add routines in 3.9.7.5
16601: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSExec);
16602: 996: procedure RIRegister_DBCtrls_Routines(S: TPSExec);
16603: 069: procedure RIRegister_IdStrings_Routines(S: TPSExec);
16604: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSExec);
16605: 215: procedure RIRegister_PNGLoader_Routines(S: TPSExec);
16606: 374: procedure RIRegister_SerDlgs_Routines(S: TPSExec);
16607: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSExec);
16608:
16609: ////////////////////////////////// TestUnits //////////////////////////////////
16610: SelftestPEM;
16611: SelfTestCFundamentUtils;
16612: SelfTestCFileUtils;
16613: SelfTestCDateTime;
16614: SelfTestCTimer;
16615: SelfTestCRandom;
16616: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter
16617: Assert(WinPathToUnixPath('\c\d.f') = '/c/d.f', 'WinPathToUnixPath
16618:
16619: TGraphicControl = class(TControl)
16620: private
16621: FCanvas: TCanvas;
16622: procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
16623: protected
16624: procedure Paint; virtual;
16625: property Canvas: TCanvas read FCanvas;
16626: public
16627: constructor Create(AOwner: TComponent); override;
16628: destructor Destroy; override;
16629: end;
16630:
16631: TCustomControl = class(TWinControl)
16632: private
16633: FCanvas: TCanvas;
16634: procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
16635: protected
16636: procedure Paint; virtual;
16637: procedure PaintWindow(DC: HDC); override;
16638: property Canvas: TCanvas read FCanvas;
16639: public
16640: constructor Create(AOwner: TComponent); override;
16641: destructor Destroy; override;
16642: end;
16643: RegisterPublishedProperties;
16644: ('ONCHANGE', 'TNotifyEvent', iptrw);
16645: ('ONCLICK', 'TNotifyEvent', iptrw);
16646: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
16647: ('ONENTER', 'TNotifyEvent', iptrw);
16648: ('ONEXIT', 'TNotifyEvent', iptrw);
16649: ('ONKEYDOWN', 'TKeyEvent', iptrw);
16650: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
16651: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
16652: ('ONMOUSEMOVE', 'TMouseMoveEvent', iptrw);
16653: ('ONMOUSEUP', 'TMouseEvent', iptrw);
16654: //*****
16655: // To stop the while loop, click on Options/Show Include (boolean switch)!
16656: Control a loop in a script with a form event:
16657: IncludeON; //control the while loop
16658: while maxform1.ShowInclude1.checked do begin //menu event Options/Show Include
16659:
16660: //-----
16661: //*****mX4 ini-file Configuration*****
16662: //-----
16663: using config file maxboxdef.ini menu/Help/Config File
16664:
16665: /*** Definitions for maXbox mX3 ***/
16666: [FORM]
16667: LAST_FILE=E:\maXbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
16668: FONTSIZE=14
16669: EXTENSION=txt

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16670: SCREENX=1386
16671: SCREENY=1077
16672: MEMHEIGHT=350
16673: PRINTFONT=Courier New //GUI Settings
16674: LINENUMBERS=Y //line numbers at gutter in editor at left side
16675: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! - menu Debug/Show Last Exceptions
16676: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
16677: BOOTSCRIPT=Y //enabling load a boot script
16678: MEMORYREPORT=Y //shows memory report on closing maXbox
16679: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox\maxbox3\docs\
16680: NAVIGATOR=N //shows function list at the right side of editor
16681: NAVWIDTH=350 //width of the right side interface list <CTRL L>
16682: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
16683: [WEB]
16684: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
16685: IPHOST=192.168.1.53
16686: ROOTCERT=filepathY
16687: SCERT=filepathY
16688: RSAKEY=filepathY
16689: VERSIONCHECK=Y
16690:
16691: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
16692:
16693: Also possible to set report memory in script to override ini setting
16694: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
16695:
16696:
16697: After Change the ini file you can reload the file with ../Help/Config Update
16698:
16699: //-----
16700: //*****mX4 maildef.ini ini-file Configuration*****
16701: //-----
16702: /*** Definitions for maXMail ***/
16703: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
16704: [MAXMAIL]
16705: HOST=getmail.softwareschule.ch
16706: USER=mailusername
16707: PASS=password
16708: PORT=110
16709: SSL=Y
16710: BODY=Y
16711: LAST=5
16712:
16713: ADO Connection String:
16714: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
16715:
16716:
16717: //-----
16718: //*****mX4 Macro Tags *****
16719: //-----
16720:
16721: asm #name #hostmAPSN2APSN2111e, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt end
16722:
16723: //Tag Macros
16724:
16725: asm #name, #date, #host, #path, #file, #head, #sign #tech end
16726:
16727: //Tag Macros
16728: 10188: SearchAndCopy(memol.lines, '#name', getUsernameWin, 11);
16729: 10189: SearchAndCopy(memol.lines, '#date', datetimestoStr(now), 11);
16730: 10190: SearchAndCopy(memol.lines, '#host', getComputernamewin, 11);
16731: 10191: SearchAndCopy(memol.lines, '#path', fpath, 11);
16732: 10192: SearchAndCopy(memol.lines, '#file', fname, 11);
16733: 10199: SearchAndCopy(memol.lines, '#files', fname + '+SHA1(Act_Filename)', 11);
16734: 10193: SearchAndCopy(memol.lines, '#locs', intToStr(getCodeEnd), 11);
16735: 10194: SearchAndCopy(memol.lines, '#perf', perftime, 11);
16736: 10195: SearchAndCopy(memol.lines, '#sign', Format('%s: %s: %s',
[getUsernameWin, getComputernamewin, datetimestoStr(now),
16738: 10196: SearchAndCopy(memol.lines, '#head', Format('%s: %s: %s %s',
16739: 10197: [getUsernameWin, getComputernamewin, datetimestoStr(now), Act_Filename]], 11);
16740: [getUsernameWin, getComputernamewin, datetimestoStr(now), Act_Filename]], 11);
16741: 10198: SearchAndCopy(memol.lines, '#tech', Format('perf: %s threads: %d %s %s',
[perftime, numprocessthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]], 11);
16742: [perftime, numprocessthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]], 11);
16743: //tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
16744:
16745: //Replace Macros
16746: SearchAndCopy(memol.lines, '<TIME>', timetoStr(time), 6);
16747: SearchAndCopy(memol.lines, '<DATE>', datetoStr(date), 6);
16748: SearchAndCopy(memol.lines, '<PATH>', fpath, 6);
16749: SearchAndCopy(memol.lines, '<EXEPATH>', ExePath, 9);
16750: SearchAndCopy(memol.lines, '<FILE>', fname, 6);
16751: SearchAndCopy(memol.lines, '<SOURCE>', ExePath+'Source', 8);
16752:
16753: 10198: SearchAndCopy(memol.lines, '#tech'perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
16754: [perftime,numprocessthreads,getIPAddress(getComputerNameWin),timetoStr(time),mbversion]], 11);
16755: //tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
16756: SearchAndCopy(memol.lines, 'maxbox_extract_funclist399.txt
16757:

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16758: //-----
16759: //*****mX4 ToDo List Tags ../Help/ToDo List*****
16760: //-----
16761:
16762:   while I < sl.Count do begin
16763: //       if MatchesMask(sl[I], '/*? TODO ([a-z0-9_]*#[1-9#]*:*)') then
16764:       if MatchesMask(sl[I], '/*? TODO (?*#?#)*:*)' then
16765:         BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
16766:       else if MatchesMask(sl[I], '/*? DONE (?*#?#)*:*)' then
16767:         BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
16768:       else if MatchesMask(sl[I], '/*? TODO (#?#)*:*)' then
16769:         BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
16770:       else if MatchesMask(sl[I], '/*? DONE (#?#)*:*)' then
16771:         BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
16772:       else if MatchesMask(sl[I], '/*?*TODO*:*)' then
16773:         BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
16774:       else if MatchesMask(sl[I], '/*?*DONE*:*)' then
16775:         BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
16776:       Inc(I);
16777:   end;
16778:
16779:
16780: //-----
16781: //*****mX4 Public Tools API *****
16782: //-----
16783:   file : unit uPSI_fMain.pas;                               ($OTAP) Open Tools API Catalog
16784: // Those functions concern the editor and preprocessor, all of the IDE
16785: Example: Call it with maxform1.Info1Click(self)
16786: Note: Call all Methods with maxForm1., e.g.:
16787:       maxForm1.ShellStyle1Click(self);
16788:
16789: procedure SIRegister_fMain(CL: TPSPascalCompiler);
16790: begin
16791:   Const('BYTECODE','String').SetString( 'bytecode.txt
16792:   Const('PSTEXT','String').SetString( 'PS Scriptfiles (*.txt)|*.TXT
16793:   Const('PSMODEL','String').SetString( 'PS Modelfiles (*.uc)|*.UC
16794:   Const('PSPASCAL','String').SetString( 'PS Pascalfiles (*.pas)|*.PAS
16795:   Const('PSINC','String').SetString( 'PS Includes (*.inc)|*.INC
16796:   Const('DEFFILENAME','String').SetString( 'firstdemo.txt
16797:   Const('DEFINIFILE','String').SetString( 'maxboxdef.ini
16798:   Const('EXCEPTLOGFILE','String').SetString( 'maxboxerrorlog.txt
16799:   Const('ALLFUNCTIONSLIST','String').SetString( 'upsi_allfunctionslist.txt
16800:   Const('ALLFUNCTIONSLISTPDF','String').SetString( 'maxbox_functions_all.pdf
16801:   Const('ALLOBJECTSLIST','String').SetString( 'docs\VCL.pdf
16802:   Const('ALLRESOURCELIST','String').SetString( 'docs\upsi_allresourcelist.txt
16803:   Const('ALLUNITLIST','String').SetString( 'docs\maxbox3_9.xml');
16804:   Const('INCLUDEBOX','String').SetString( 'pas_includebox.inc
16805:   Const('BOOTSCRIPT','String').SetString( 'maxbootscript.txt
16806:   Const('MBVERSION','String').SetString( '3.9.9.88
16807:   Const('VERSION','String').SetString( '3.9.9.88
16808:   Const('MBVER','String').SetString( '399
16809:   Const('MBVERI','Integer').SetInt(399);
16810:   Const('MBVERIALL','Integer').SetInt(39988);
16811:   Const('EXENAME','String').SetString( 'maxbox3.exe
16812:   Const('MXSITE','String').SetString( 'http://www.softwareschule.ch/maxbox.htm
16813:   Const('MXVERSIONFILE','String').SetString( 'http://www.softwareschule.ch/maxvfile.txt
16814:   Const('MXINTERNETCHECK','String').SetString( 'www.ask.com
16815:   Const('MXMAIL','String').SetString( 'max@kleiner.com
16816:   Const('TAB','Char').SetString( #9);
16817:   Const('CODECOMPLETION','String').SetString( 'bds_delphi.dci
16818:   SIRegister_TMaxForm1(CL);
16819: end;
16820:
16821:   with FindClass('TForm'),'TMaxForm1' do begin
16822:     memo2, 'TMemo', iptrw);
16823:     memo1, 'TSynMemo', iptrw);
16824:     CB1SCList, 'TComboBox', iptrw);
16825:     mxNavigator, 'TComboBox', iptrw);
16826:     IPHost, 'string', iptrw);
16827:     IPPort, 'integer', iptrw);
16828:     COMPort, 'integer', iptrw); //3.9.6.4
16829:     Splitter1, 'TSplitter', iptrw);
16830:     PSScript, 'TPSScript', iptrw);
16831:     PS3DllPlugin, 'TPSDllPlugin', iptrw);
16832:     MainMenu1, 'TMainMenu', iptrw);
16833:     Program1, 'TMenuItem', iptrw);
16834:     Compile1, 'TMenuItem', iptrw);
16835:     Files1, 'TMenuItem', iptrw);
16836:     open1, 'TMenuItem', iptrw);
16837:     Save2, 'TMenuItem', iptrw);
16838:     Options1, 'TMenuItem', iptrw);
16839:     Savebefore1, 'TMenuItem', iptrw);
16840:     Largefont1, 'TMenuItem', iptrw);
16841:     sBytecode1, 'TMenuItem', iptrw);
16842:     Saveas3, 'TMenuItem', iptrw);
16843:     Clear1, 'TMenuItem', iptrw);
16844:     Slinenumber1, 'TMenuItem', iptrw);
16845:     About1, 'TMenuItem', iptrw);
16846:     Search1, 'TMenuItem', iptrw);

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16847: SynPasSyn1', 'TSynPasSyn', iptrw);
16848: memol', 'TSynMemo', iptrw);
16849: SynEditSearch1', 'TSynEditSearch', iptrw);
16850: WordWrap1', 'TMenuItem', iptrw);
16851: XPManifest1', 'TXPManifest', iptrw);
16852: SearchNext1', 'TMenuItem', iptrw);
16853: Replace1', 'TMenuItem', iptrw);
16854: PSImport_Controls1', 'TPSImport_Controls', iptrw);
16855: PSImport_Classes1', 'TPSImport_Classes', iptrw);
16856: ShowInclude1', 'TMenuItem', iptrw);
16857: SynEditPrint1', 'TSynEditPrint', iptrw);
16858: Printout1', 'TMenuItem', iptrw);
16859: mnPrintColors1', 'TMenuItem', iptrw);
16860: dlgFilePrint', 'TPrintDialog', iptrw);
16861: dlgPrintFont1', 'TFontDialog', iptrw);
16862: mnuPrintFont1', 'TMenuItem', iptrw);
16863: Include1', 'TMenuItem', iptrw);
16864: CodeCompletionList1', 'TMenuItem', iptrw);
16865: IncludeList1', 'TMenuItem', iptrw);
16866: ImageList1', 'TImageList', iptrw);
16867: ImageList2', 'TImageList', iptrw);
16868: CoolBar1', 'TCoolBar', iptrw);
16869: ToolBar1', 'TToolBar', iptrw);
16870: tbtnLoad', 'TToolButton', iptrw);
16871: ToolButton2', 'TToolButton', iptrw);
16872: tbtnFind', 'TToolButton', iptrw);
16873: tbtnCompile', 'TToolButton', iptrw);
16874: tbtnTrans', 'TToolButton', iptrw);
16875: tbtnUseCase', 'TToolButton', iptrw); //3.8
16876: toolbtnTutorial', 'TToolButton', iptrw);
16877: tbtn6res', 'TToolButton', iptrw);
16878: ToolButton5', 'TToolButton', iptrw);
16879: ToolButton1', 'TToolButton', iptrw);
16880: ToolButton3', 'TToolButton', iptrw);
16881: statusBar1', 'TStatusBar', iptrw);
16882: SaveOutput1', 'TMenuItem', iptrw);
16883: ExportClipboard1', 'TMenuItem', iptrw);
16884: Close1', 'TMenuItem', iptrw);
16885: Manual1', 'TMenuItem', iptrw);
16886: About2', 'TMenuItem', iptrw);
16887: loadLastfile1', 'TMenuItem', iptrw);
16888: imglogo', 'TImage', iptrw);
16889: cedebug', 'TPSScriptDebugger', iptrw);
16890: debugPopupMenu1', 'TPopupMenu', iptrw);
16891: BreakPointMenu', 'TMenuItem', iptrw);
16892: Decompile1', 'TMenuItem', iptrw);
16893: StepInto1', 'TMenuItem', iptrw);
16894: StepOut1', 'TMenuItem', iptrw);
16895: Reset1', 'TMenuItem', iptrw);
16896: DebugRun1', 'TMenuItem', iptrw);
16897: PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
16898: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
16899: PSImport_Forms1', 'TPSImport_Forms', iptrw);
16900: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
16901: tutorial4', 'TMenuItem', iptrw);
16902: ExporttoClipboard1', 'TMenuItem', iptrw);
16903: ImportfromClipboard1', 'TMenuItem', iptrw);
16904: N4', 'TMenuItem', iptrw);
16905: N5', 'TMenuItem', iptrw);
16906: N6', 'TMenuItem', iptrw);
16907: ImportfromClipboard2', 'TMenuItem', iptrw);
16908: tutorial1', 'TMenuItem', iptrw);
16909: N7', 'TMenuItem', iptrw);
16910: ShowSpecChars1', 'TMenuItem', iptrw);
16911: OpenDirectory1', 'TMenuItem', iptrw);
16912: procMess', 'TMenuItem', iptrw);
16913: tbtnUseCase', 'TToolButton', iptrw);
16914: ToolButton7', 'TToolButton', iptrw);
16915: EditFont1', 'TMenuItem', iptrw);
16916: UseCase1', 'TMenuItem', iptrw);
16917: tutorial21', 'TMenuItem', iptrw);
16918: OpenUseCase1', 'TMenuItem', iptrw);
16919: PSImport_DB1', 'TPSImport_DB', iptrw);
16920: tutorial31', 'TMenuItem', iptrw);
16921: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
16922: HTMLSyntax1', 'TMenuItem', iptrw);
16923: ShowInterfaces1', 'TMenuItem', iptrw);
16924: Tutorial5', 'TMenuItem', iptrw);
16925: AllFunctionsList1', 'TMenuItem', iptrw);
16926: ShowLastException1', 'TMenuItem', iptrw);
16927: PlayMP31', 'TMenuItem', iptrw);
16928: SynTeXSyn1', 'TSynTeXSyn', iptrw);
16929: texSyntax1', 'TMenuItem', iptrw);
16930: N8', 'TMenuItem', iptrw);
16931: GetEMails1', 'TMenuItem', iptrw);
16932: SynCppSyn1', 'TSynCppSyn', iptrw);
16933: CSyntax1', 'TMenuItem', iptrw);
16934: Tutorial6', 'TMenuItem', iptrw);
16935: New1', 'TMenuItem', iptrw);
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16936: AllObjectsList1', 'TMenuItem', iptrw);
16937: LoadBytecode1', 'TMenuItem', iptrw);
16938: CipherFile1', 'TMenuItem', iptrw);
16939: N9', 'TMenuItem', iptrw);
16940: N10', 'TMenuItem', iptrw);
16941: Tutorial11', 'TMenuItem', iptrw);
16942: Tutorial71', 'TMenuItem', iptrw);
16943: UpdateService1', 'TMenuItem', iptrw);
16944: PascalSchool1', 'TMenuItem', iptrw);
16945: Tutorial81', 'TMenuItem', iptrw);
16946: DelphiSite1', 'TMenuItem', iptrw);
16947: Output1', 'TMenuItem', iptrw);
16948: TerminalStyle1', 'TMenuItem', iptrw);
16949: ReadOnly1', 'TMenuItem', iptrw);
16950: ShellStyle1', 'TMenuItem', iptrw);
16951: BigScreen1', 'TMenuItem', iptrw);
16952: Tutorial91', 'TMenuItem', iptrw);
16953: SaveOutput2', 'TMenuItem', iptrw);
16954: N11', 'TMenuItem', iptrw);
16955: SaveScreenshot', 'TMenuItem', iptrw);
16956: Tutorial101', 'TMenuItem', iptrw);
16957: SQLSyntax1', 'TMenuItem', iptrw);
16958: SynSQLSyn1', 'TSynSQLSyn', iptrw);
16959: Console1', 'TMenuItem', iptrw);
16960: SynXMLSyn1', 'TSynXMLSyn', iptrw);
16961: XMLSyntax1', 'TMenuItem', iptrw);
16962: ComponentCount1', 'TMenuItem', iptrw);
16963: NewInstance1', 'TMenuItem', iptrw);
16964: toolbtnTutorial', 'TToolButton', iptrw);
16965: Memory1', 'TMenuItem', iptrw);
16966: SynJavaSyn1', 'TSynJavaSyn', iptrw);
16967: JavaSyntax1', 'TMenuItem', iptrw);
16968: SyntaxCheck1', 'TMenuItem', iptrw);
16969: Tutorial10Statistics1', 'TMenuItem', iptrw);
16970: ScriptExplorer1', 'TMenuItem', iptrw);
16971: FormOutput1', 'TMenuItem', iptrw);
16972: ArduinoDump1', 'TMenuItem', iptrw);
16973: AndroidDump1', 'TMenuItem', iptrw);
16974: GotoEnd1', 'TMenuItem', iptrw);
16975: AllResourceList1', 'TMenuItem', iptrw);
16976: ToolButton4', 'TToolButton', iptrw);
16977: tbtn6res', 'TToolButton', iptrw);
16978: Tutorial11Forms1', 'TMenuItem', iptrw);
16979: Tutorial12SQL1', 'TMenuItem', iptrw);
16980: ResourceExplore1', 'TMenuItem', iptrw);
16981: Info1', 'TMenuItem', iptrw);
16982: N12', 'TMenuItem', iptrw);
16983: CryptoBox1', 'TMenuItem', iptrw);
16984: Tutorial13Ciphering1', 'TMenuItem', iptrw);
16985: CipherFile2', 'TMenuItem', iptrw);
16986: N13', 'TMenuItem', iptrw);
16987: ModulesCount1', 'TMenuItem', iptrw);
16988: AddOns2', 'TMenuItem', iptrw);
16989: N4GewinntGame1', 'TMenuItem', iptrw);
16990: DocuforAddOns1', 'TMenuItem', iptrw);
16991: Tutorial14Async1', 'TMenuItem', iptrw);
16992: Lessons15Review1', 'TMenuItem', iptrw);
16993: SynPHPSyn1', 'TSynPHPSyn', iptrw);
16994: PHPSyntax1', 'TMenuItem', iptrw);
16995: Breakpoint1', 'TMenuItem', iptrw);
16996: SerialRS2321', 'TMenuItem', iptrw);
16997: N14', 'TMenuItem', iptrw);
16998: SynCSSyn1', 'TSynCSSyn', iptrw);
16999: CSyntax2', 'TMenuItem', iptrw);
17000: Calculator1', 'TMenuItem', iptrw);
17001: tbtnSerial', 'TToolButton', iptrw);
17002: ToolButton8', 'TToolButton', iptrw);
17003: Tutorial151', 'TMenuItem', iptrw);
17004: N15', 'TMenuItem', iptrw);
17005: N16', 'TMenuItem', iptrw);
17006: ControlBar1', 'TControlBar', iptrw);
17007: ToolBar2', 'TToolBar', iptrw);
17008: BtnOpen', 'TToolButton', iptrw);
17009: BtnSave', 'TToolButton', iptrw);
17010: BtnPrint', 'TToolButton', iptrw);
17011: BtnColors', 'TToolButton', iptrw);
17012: btnClassReport', 'TToolButton', iptrw);
17013: BtnRotateRight', 'TToolButton', iptrw);
17014: BtnFullSize', 'TToolButton', iptrw);
17015: BtnFitToWindowSize', 'TToolButton', iptrw);
17016: BtnZoomMinus', 'TToolButton', iptrw);
17017: BtnZoomPlus', 'TToolButton', iptrw);
17018: Panel1', 'TPanel', iptrw);
17019: LabelBrettgroesse', 'TLabel', iptrw);
17020: CB1SCList', 'TComboBox', iptrw);
17021: ImageListNormal', 'TImageList', iptrw);
17022: spbtnexplore', 'TSpeedButton', iptrw);
17023: spbtnexample', 'TSpeedButton', iptrw);
17024: spbsaveas', 'TSpeedButton', iptrw);

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17025:    imglogobox', 'TImage', iptrw);
17026:    EnlargeFont1', 'TMenuItem', iptrw);
17027:    EnlargeFont2', 'TMenuItem', iptrw);
17028:    ShrinkFont1', 'TMenuItem', iptrw);
17029:    ThreadDemol', 'TMenuItem', iptrw);
17030:    HEXEditor1', 'TMenuItem', iptrw);
17031:    HEXView1', 'TMenuItem', iptrw);
17032:    HEXInspect1', 'TMenuItem', iptrw);
17033:    SynExporterHTML1', 'TSynExporterHTML', iptrw);
17034:    ExporttoHTML1', 'TMenuItem', iptrw);
17035:    ClassCount1', 'TMenuItem', iptrw);
17036:    HTMLOutput1', 'TMenuItem', iptrw);
17037:    HEXEditor2', 'TMenuItem', iptrw);
17038:    Minesweeper1', 'TMenuItem', iptrw);
17039:    N17', 'TMenuItem', iptrw);
17040:    PicturePuzzle1', 'TMenuItem', iptrw);
17041:    sbvclhelp', 'TSpeedButton', iptrw);
17042:    DependencyWalker1', 'TMenuItem', iptrw);
17043:    WebScanner1', 'TMenuItem', iptrw);
17044:    View1', 'TMenuItem', iptrw);
17045:    mnToolbar1', 'TMenuItem', iptrw);
17046:    mnStatusbar2', 'TMenuItem', iptrw);
17047:    mnConsole2', 'TMenuItem', iptrw);
17048:    mnCoolbar2', 'TMenuItem', iptrw);
17049:    mnSplitter2', 'TMenuItem', iptrw);
17050:    WebServer1', 'TMenuItem', iptrw);
17051:    Tutorial17Server1', 'TMenuItem', iptrw);
17052:    Tutorial18Arduinol', 'TMenuItem', iptrw);
17053:    SynPerlSyn1', 'TSynPerlSyn', iptrw);
17054:    PerlSyntax1', 'TMenuItem', iptrw);
17055:    SynPythonSyn1', 'TSynPythonSyn', iptrw);
17056:    PythonSyntax1', 'TMenuItem', iptrw);
17057:    DMathLibrary1', 'TMenuItem', iptrw);
17058:    IntfNavigator1', 'TMenuItem', iptrw);
17059:    EnlargeFontConsole1', 'TMenuItem', iptrw);
17060:    ShrinkFontConsole1', 'TMenuItem', iptrw);
17061:    SetInterfaceList1', 'TMenuItem', iptrw);
17062:    popintfList', 'TPopupMenu', iptrw);
17063:    intfAdd1', 'TMenuItem', iptrw);
17064:    intfDelete1', 'TMenuItem', iptrw);
17065:    intfRefactor1', 'TMenuItem', iptrw);
17066:    Defactor1', 'TMenuItem', iptrw);
17067:    Tutorial19COMArduinol', 'TMenuItem', iptrw);
17068:    Tutorial20Regex', 'TMenuItem', iptrw);
17069:    N18', 'TMenuItem', iptrw);
17070:    ManualE1', 'TMenuItem', iptrw);
17071:    FullTextFinder1', 'TMenuItem', iptrw);
17072:    Move1', 'TMenuItem', iptrw);
17073:    FractalDemol', 'TMenuItem', iptrw);
17074:    Tutorial21Android1', 'TMenuItem', iptrw);
17075:    Tutorial0Function1', 'TMenuItem', iptrw);
17076:    SimuLogBox1', 'TMenuItem', iptrw);
17077:    OpenExamples1', 'TMenuItem', iptrw);
17078:    SynJavaScriptSyn1', 'TSynJavaScriptSyn', iptrw);
17079:    JavaScriptSyntax1', 'TMenuItem', iptrw);
17080:    Halt1', 'TMenuItem', iptrw);
17081:    CodeSearch1', 'TMenuItem', iptrw);
17082:    SynRubySyn1', 'TSynRubySyn', iptrw);
17083:    RubySyntax1', 'TMenuItem', iptrw);
17084:    Undo1', 'TMenuItem', iptrw);
17085:    SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
17086:    LinuxShellScript1', 'TMenuItem', iptrw);
17087:    Rename1', 'TMenuItem', iptrw);
17088:    spdcodesearch', 'TSpeedButton', iptrw);
17089:    Preview1', 'TMenuItem', iptrw);
17090:    Tutorial22Services1', 'TMenuItem', iptrw);
17091:    Tutorial23RealTime1', 'TMenuItem', iptrw);
17092:    Configuration1', 'TMenuItem', iptrw);
17093:    MP3Player1', 'TMenuItem', iptrw);
17094:    DLLSpy1', 'TMenuItem', iptrw);
17095:    SynURIOpener1', 'TSynURIOpener', iptrw);
17096:    SynURISyn1', 'TSynURISyn', iptrw);
17097:    URILinksClicks1', 'TMenuItem', iptrw);
17098:    EditReplacel', 'TMenuItem', iptrw);
17099:    GotoLine1', 'TMenuItem', iptrw);
17100:    ActiveLineColor1', 'TMenuItem', iptrw);
17101:    ConfigFile1', 'TMenuItem', iptrw);
17102:    Sort1IntfList', 'TMenuItem', iptrw);
17103:    Redol', 'TMenuItem', iptrw);
17104:    Tutorial24CleanCode1', 'TMenuItem', iptrw);
17105:    Tutorial25Configuration1', 'TMenuItem', iptrw);
17106:    IndentSelection1', 'TMenuItem', iptrw);
17107:    UnindentSection1', 'TMenuItem', iptrw);
17108:    SkyStyle1', 'TMenuItem', iptrw);
17109:    N19', 'TMenuItem', iptrw);
17110:    CountWords1', 'TMenuItem', iptrw);
17111:    imbookmarkimages', 'TImageList', iptrw);
17112:    Bookmark11', 'TMenuItem', iptrw);
17113:    N20', 'TMenuItem', iptrw);

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17114: Bookmark21', 'TMenuItem', iptrw);
17115: Bookmark31', 'TMenuItem', iptrw);
17116: Bookmark41', 'TMenuItem', iptrw);
17117: SynMultiSyn1', 'TSynMultiSyn', iptrw);
17118:
17119: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
17120: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSExec; x:TPSRuntimeClassImporter);
17121: Procedure PSScriptCompile( Sender : TPSScript)
17122: Procedure Compile1Click( Sender : TObject)
17123: Procedure PSScriptExecute( Sender : TPSScript)
17124: Procedure open1Click( Sender : TObject)
17125: Procedure Save2Click( Sender : TObject)
17126: Procedure Savebefore1Click( Sender : TObject)
17127: Procedure Largefont1Click( Sender : TObject)
17128: Procedure FormActivate( Sender : TObject)
17129: Procedure SBytecode1Click( Sender : TObject)
17130: Procedure FormKeyPress( Sender : TObject; var Key : Char)
17131: Procedure Saveas3Click( Sender : TObject)
17132: Procedure Clear1Click( Sender : TObject)
17133: Procedure Slinenumbers1Click( Sender : TObject)
17134: Procedure About1Click( Sender : TObject)
17135: Procedure Search1Click( Sender : TObject)
17136: Procedure FormCreate( Sender : TObject)
17137: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
17138:                               var Action : TSynReplaceAction)
17139: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
17140: Procedure WordWrap1Click( Sender : TObject)
17141: Procedure SearchNext1Click( Sender : TObject)
17142: Procedure Replace1Click( Sender : TObject)
17143: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FName,Output:String):Bool;
17144: Procedure ShowInclude1Click( Sender : TObject)
17145: Procedure Printout1Click( Sender : TObject)
17146: Procedure mnuPrintFont1Click( Sender : TObject)
17147: Procedure Include1Click( Sender : TObject)
17148: Procedure FormDestroy( Sender : TObject)
17149: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17150: Procedure UpdateView1Click( Sender : TObject)
17151: Procedure CodeCompletionList1Click( Sender : TObject)
17152: Procedure SaveOutput1Click( Sender : TObject)
17153: Procedure ExportClipboard1Click( Sender : TObject)
17154: Procedure Close1Click( Sender : TObject)
17155: Procedure Manuall1Click( Sender : TObject)
17156: Procedure LoadLastFile1Click( Sender : TObject)
17157: Procedure Memo1Change( Sender : TObject)
17158: Procedure Decompile1Click( Sender : TObject)
17159: Procedure StepInto1Click( Sender : TObject)
17160: Procedure StepOut1Click( Sender : TObject)
17161: Procedure Reset1Click( Sender : TObject)
17162: Procedure cedebugAfterExecute( Sender : TPSScript)
17163: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
17164: Procedure cedebugCompile( Sender : TPSScript)
17165: Procedure cedebugExecute( Sender : TPSScript)
17166: Procedure cedebugIdle( Sender : TObject)
17167: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
17168: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
17169: Procedure BreakPointMenuClick( Sender : TObject)
17170: Procedure DebugRun1Click( Sender : TObject)
17171: Procedure tutorial4Click( Sender : TObject)
17172: Procedure ImportfromClipboard1Click( Sender : TObject)
17173: Procedure ImportfromClipboard2Click( Sender : TObject)
17174: Procedure tutorial1Click( Sender : TObject)
17175: Procedure ShowSpecChars1Click( Sender : TObject)
17176: Procedure StatusBar1Db1Click( Sender : TObject)
17177: Procedure PSScriptLine( Sender : TObject)
17178: Procedure OpenDirectory1Click( Sender : TObject)
17179: Procedure procMessClick( Sender : TObject)
17180: Procedure tbtnUseCaseClick( Sender : TObject)
17181: Procedure EditFont1Click( Sender : TObject)
17182: Procedure tutorial21Click( Sender : TObject)
17183: Procedure tutorial31Click( Sender : TObject)
17184: Procedure HTMLSyntax1Click( Sender : TObject)
17185: Procedure ShowInterfaces1Click( Sender : TObject)
17186: Procedure Tutorial5Click( Sender : TObject)
17187: Procedure ShowLastException1Click( Sender : TObject)
17188: Procedure PlayMP31Click( Sender : TObject)
17189: Procedure AllFunctionsList1Click( Sender : TObject)
17190: Procedure texSyntax1Click( Sender : TObject)
17191: Procedure GetEMails1Click( Sender : TObject)
17192: procedure DelphiSite1Click(Sender: TObject);
17193: procedure TerminalStyle1Click(Sender: TObject);
17194: procedure ReadOnly1Click(Sender: TObject);
17195: procedure ShellStyle1Click(Sender: TObject);
17196: procedure Console1Click(Sender: TObject); //3.2
17197: procedure BigScreen1Click(Sender: TObject);
17198: procedure Tutorial91Click(Sender: TObject);
17199: procedure SaveScreenshotClick(Sender: TObject);
17200: procedure Tutorial101Click(Sender: TObject);
17201: procedure SQLSyntax1Click(Sender: TObject);
17202: procedure XMLSyntax1Click(Sender: TObject);

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17203: procedure ComponentCount1Click(Sender: TObject);
17204: procedure NewInstance1Click(Sender: TObject);
17205: procedure CSyntax1Click(Sender: TObject);
17206: procedure Tutorial6Click(Sender: TObject);
17207: procedure New1Click(Sender: TObject);
17208: procedure AllObjectsList1Click(Sender: TObject);
17209: procedure LoadBytecode1Click(Sender: TObject);
17210: procedure CipherFile1Click(Sender: TObject); //V3.5
17211: procedure NewInstance1Click(Sender: TObject);
17212: procedure toolbtnTutorialClick(Sender: TObject);
17213: procedure Memory1Click(Sender: TObject);
17214: procedure JavaSyntax1Click(Sender: TObject);
17215: procedure SyntaxCheck1Click(Sender: TObject);
17216: procedure ScriptExplorer1Click(Sender: TObject);
17217: procedure FormOutput1Click(Sender: TObject); //V3.6
17218: procedure GotoEnd1Click(Sender: TObject);
17219: procedure AllResourceList1Click(Sender: TObject);
17220: procedure tbtn6resClick(Sender: TObject); //V3.7
17221: procedure Info1Click(Sender: TObject);
17222: procedure Tutorial10Statistics1Click(Sender: TObject);
17223: procedure Tutorial11Forms1Click(Sender: TObject);
17224: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
17225: procedure ResourceExplore1Click(Sender: TObject);
17226: procedure Info1Click(Sender: TObject);
17227: procedure CryptoBox1Click(Sender: TObject);
17228: procedure ModulesCount1Click(Sender: TObject);
17229: procedure N4GewinntGame1Click(Sender: TObject);
17230: procedure PHPSyntax1Click(Sender: TObject);
17231: procedure SerialRS2321Click(Sender: TObject);
17232: procedure CSyntax2Click(Sender: TObject);
17233: procedure Calculator1Click(Sender: TObject);
17234: procedure Tutorial13Ciphering1Click(Sender: TObject);
17235: procedure Tutorial14Async1Click(Sender: TObject);
17236: procedure PHPSyntax1Click(Sender: TObject);
17237: procedure BtnZoomPlusClick(Sender: TObject);
17238: procedure BtnZoomMinusClick(Sender: TObject);
17239: procedure btnClassReportClick(Sender: TObject);
17240: procedure ThreadDemo1Click(Sender: TObject);
17241: procedure HEXView1Click(Sender: TObject);
17242: procedure ExporttoHTML1Click(Sender: TObject);
17243: procedure Minesweeper1Click(Sender: TObject);
17244: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
17245: procedure sbvclhelpClick(Sender: TObject);
17246: procedure DependencyWalker1Click(Sender: TObject);
17247: procedure CB1SCListDrawItem(Control: TWinControl; Index: Integer; aRect: TRect; State: TOwnerDrawState);
17248: procedure WebScanner1Click(Sender: TObject);
17249: procedure mnToolbar1Click(Sender: TObject);
17250: procedure mnStatusbar2Click(Sender: TObject);
17251: procedure mnConsole2Click(Sender: TObject);
17252: procedure mnCoolbar2Click(Sender: TObject);
17253: procedure mnSplitter2Click(Sender: TObject);
17254: procedure WebServer1Click(Sender: TObject);
17255: procedure PerlSyntax1Click(Sender: TObject);
17256: procedure PythonSyntax1Click(Sender: TObject);
17257: procedure DMathLibrary1Click(Sender: TObject);
17258: procedure IntfNavigator1Click(Sender: TObject);
17259: procedure FullTextFinder1Click(Sender: TObject);
17260: function AppName: string;
17261: function ScriptName: string;
17262: function LastName: string;
17263: procedure FractalDemo1Click(Sender: TObject);
17264: procedure SimuLogBox1Click(Sender: TObject);
17265: procedure OpenExamples1Click(Sender: TObject);
17266: procedure Halt1Click(Sender: TObject);
17267: procedure Stop;
17268: procedure CodeSearch1Click(Sender: TObject);
17269: procedure RubySyntax1Click(Sender: TObject);
17270: procedure Undo1Click(Sender: TObject);
17271: procedure LinuxShellScript1Click(Sender: TObject);
17272: procedure WebScannerDirect(urls: string);
17273: procedure WebScanner(urls: string);
17274: procedure LoadInterfaceList2;
17275: procedure DLLSpy1Click(Sender: TObject);
17276: procedure Memo1Db1Click(Sender: TObject);
17277: procedure URILinksClicks1Click(Sender: TObject);
17278: procedure GotoLine1Click(Sender: TObject);
17279: procedure ConfigFile1Click(Sender: TObject);
17280: Procedure Sort1IntflistClick( Sender : TObject)
17281: Procedure Redo1Click( Sender : TObject)
17282: Procedure Tutorial24CleanCode1Click( Sender : TObject)
17283: Procedure IndentSelection1Click( Sender : TObject)
17284: Procedure UnindentSection1Click( Sender : TObject)
17285: Procedure SkyStyle1Click( Sender : TObject)
17286: Procedure CountWords1Click( Sender : TObject)
17287: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark)
17288: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
17289: Procedure Bookmark11Click( Sender : TObject)
17290: Procedure Bookmark21Click( Sender : TObject)
17291: Procedure Bookmark31Click( Sender : TObject)

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17292: Procedure Bookmark41Click( Sender : TObject)
17293: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operation:TRangeOperation;var Range:Pointer);
17294: 'STATMemoryReport', 'boolean', iptrw);
17295: 'IPPort', 'integer', iptrw);
17296: 'COMPort', 'integer', iptrw);
17297: 'lbintflist', 'TListBox', iptrw);
17298: Function GetStatChange : boolean
17299: Procedure SetStatChange( vstat : boolean)
17300: Function GetActFileName : string
17301: Procedure SetActFileName( vname : string)
17302: Function GetLastFileName : string
17303: Procedure SetLastFileName( vname : string)
17304: Procedure WebScannerDirect( urls : string)
17305: Procedure LoadInterfaceList2
17306: Function GetStatExecutesShell : boolean
17307: Procedure DoEditorExecuteCommand( EditorCommand : word)
17308: function GetActiveLineColor: TColor
17309: procedure SetActiveLineColor(acolor: TColor)
17310: procedure ScriptListbox1Click(Sender: TObject);
17311: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
17312: procedure EnlargeGutter1Click(Sender: TObject);
17313: procedure Tetris1Click(Sender: TObject);
17314: procedure ToDoList1Click(Sender: TObject);
17315: procedure ProcessList1Click(Sender: TObject);
17316: procedure MetricReport1Click(Sender: TObject);
17317: procedure ProcessList1Click(Sender: TObject);
17318: procedure TCPSockets1Click(Sender: TObject);
17319: procedure ConfigUpdate1Click(Sender: TObject);
17320: procedure ADOWorkbench1Click(Sender: TObject);
17321: procedure SocketServer1Click(Sender: TObject);
17322: procedure FormDemo1Click(Sender: TObject);
17323: procedure Richedit1Click(Sender: TObject);
17324: procedure SimpleBrowser1Click(Sender: TObject);
17325: procedure DOSShell1Click(Sender: TObject);
17326: procedure SynExport1Click(Sender: TObject);
17327: procedure ExporttoRTF1Click(Sender: TObject);
17328: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
17329: procedure SOAPTester1Click(Sender: TObject);
17330: procedure Sniffer1Click(Sender: TObject);
17331: procedure AutoDetectSyntax1Click(Sender: TObject);
17332: procedure FPlot1Click(Sender: TObject);
17333: procedure PasStyle1Click(Sender: TObject);
17334: procedure Tutorial183RGBLED1Click(Sender: TObject);
17335: procedure ReversilClick(Sender: TObject);
17336: procedure ManualmaXbox1Click(Sender: TObject);
17337: procedure BlaisePascalMagazine1Click(Sender: TObject);
17338: procedure AddToDo1Click(Sender: TObject);
17339: procedure CreateGUID1Click(Sender: TObject);
17340: procedure Tutorial27XML1Click(Sender: TObject);
17341: procedure CreateDLLStub1Click(Sender: TObject);
17342: procedure Tutorial28DLL1Click(Sender: TObject);');
17343: procedure ResetKeyPressed;');
17344: procedure FileChanges1Click(Sender: TObject);');
17345: procedure OpenGLTry1Click(Sender: TObject);');
17346: procedure AllUnitList1Click(Sender: TObject);');
17347:
17348:
17349: //-----
17350: //*****mX4 Editor SynEdit Tools API *****
17351: //-----
17352: (*-----*)
17353: procedure SRegister_TCustomSynEdit(CL: TPSPascalCompiler);
17354: begin
17355:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
17356:   with FindClass('TCustomControl'),'TCustomSynEdit') do begin
17357:     Constructor Create( AOwner : TComponent)
17358:     SelStart', 'Integer', iptrw);
17359:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
17360:     Procedure UpdateCaret
17361:     Procedure AddKey(Command: TSynEditorCommand;Key1:word;SS1:TShiftState; Key2:word;SS2:TShiftState);
17362:     Procedure AddKey(Command: TSynEditorCommand;Key1:word;SS1:TShiftState; Key2: word;SS2:TShiftState);
17363:     Procedure BeginUndoBlock
17364:     Procedure BeginUpdate
17365:     Function CaretInView : Boolean
17366:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
17367:     Procedure Clear
17368:     Procedure ClearAll
17369:     Procedure ClearBookMark( BookMark : Integer)
17370:     Procedure ClearSelection
17371:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer)
17372:     Procedure ClearUndo
17373:     Procedure CopyToClipboard
17374:     Procedure CutToClipboard
17375:     Procedure DoCopyToClipboard( const SText : string)
17376:     Procedure EndUndoBlock
17377:     Procedure EndUpdate
17378:     Procedure EnsureCursorPosVisible
17379:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean)
17380:     Procedure FindMatchingBracket

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17381: Function GetMatchingBracket : TBufferCoord
17382: Function GetMatchingBracketEx( const APoint : TBufferCoord) : TBufferCoord
17383: Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer)
17384: Function GetBookMark( BookMark : integer; var X, Y : integer) : boolean
17385: Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attri
17386: : TSynHighlighterAttributes) : boolean
17387: Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
17388: var TokenType, Start : Integer; var Attri:TSynHighlighterAttributes):boolean
17389: Function GetPositionOfMouse( out aPos : TBufferCoord) : Boolean
17390: Function GetWordAtRowCol( const XY : TBufferCoord) : string
17391: Procedure GotoBookMark( BookMark : Integer)
17392: Procedure GotoLineAndCenter( ALine : Integer)
17393: Function IdentChars : TSynIdentChars
17394: Procedure InvalidateGutter
17395: Procedure InvalidateGutterLine( aLine : integer)
17396: Procedure InvalidateGutterLines( FirstLine, LastLine : integer)
17397: Procedure InvalidateLine( Line : integer)
17398: Procedure InvalidateLines( FirstLine, LastLine : integer)
17399: Procedure InvalidateSelection
17400: Function IsBookmark( BookMark : integer) : boolean
17401: Function IsPointInSelection( const Value : TBufferCoord) : boolean
17402: Procedure LockUndo
17403: Function BufferToDisplayPos( const p : TBufferCoord) : TDisplayCoord
17404: Function DisplayToBufferPos( const p : TDisplayCoord) : TBufferCoord
17405: Function LineToRow( aLine : integer) : integer
17406: Function RowToLine( aRow : integer) : integer
17407: Function NextWordPos : TBufferCoord
17408: Function NextWordPosEx( const XY : TBufferCoord) : TBufferCoord
17409: Procedure PasteFromClipboard
17410: Function WordStart : TBufferCoord
17411: Function WordStartEx( const XY : TBufferCoord) : TBufferCoord
17412: Function WordEnd : TBufferCoord
17413: Function WordEndEx( const XY : TBufferCoord) : TBufferCoord
17414: Function PrevWordPos : TBufferCoord
17415: Function PrevWordPosEx( const XY : TBufferCoord) : TBufferCoord
17416: Function PixelsToRowColumn( aX, aY : integer) : TDisplayCoord
17417: Function PixelsToNearestRowColumn( aX, aY : integer) : TDisplayCoord
17418: Procedure Redo
17419: Procedure RegisterCommandHandler(const AHandlerProc:THookedCommandEvent;AHandlerData:pointer));
17420: Function RowColumnToPixels( const RowCol : TDisplayCoord) : TPoint
17421: Function RowColToCharIndex( RowCol : TBufferCoord) : integer
17422: Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
17423: Procedure SelectAll
17424: Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer)
17425: Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord)
17426: Procedure SetDefaultKeystrokes
17427: Procedure SetSelWord
17428: Procedure SetWordBlock( Value : TBufferCoord)
17429: Procedure Undo
17430: Procedure UnlockUndo
17431: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent)
17432: Procedure AddKeyUpHandler( aHandler : TKeyEvent)
17433: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent)
17434: Procedure AddKeyDownHandler( aHandler : TKeyEvent)
17435: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent)
17436: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent)
17437: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent)
17438: Procedure AddFocusControl( aControl : TWinControl)
17439: Procedure RemoveFocusControl( aControl : TWinControl)
17440: Procedure AddMouseDownHandler( aHandler : TMouseEvent)
17441: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent)
17442: Procedure AddMouseUpHandler( aHandler : TMouseEvent)
17443: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent)
17444: Procedure AddMouseCursorHandler( aHandler : TMouseEvent)
17445: Procedure RemoveMouseCursorHandler( aHandler : TMouseEvent)
17446: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit)
17447: Procedure RemoveLinesPointer
17448: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList)
17449: Procedure UnHookTextBuffer
17450: BlockBegin', 'TBufferCoord', iptrw);
17451: BlockEnd', 'TBufferCoord', iptrw);
17452: CanPaste', 'Boolean', iptr);
17453: CanRedo', 'boolean', iptr);
17454: CanUndo', 'boolean', iptr);
17455: CaretX', 'Integer', iptrw);
17456: CaretY', 'Integer', iptrw);
17457: CaretXY', 'TBufferCoord', iptrw);
17458: ActiveLineColor', 'TColor', iptrw);
17459: DisplayX', 'Integer', iptr);
17460: DisplayY', 'Integer', iptr);
17461: DisplayXY', 'TDisplayCoord', iptr);
17462: DisplayLineCount', 'integer', iptr);
17463: CharsInWindow', 'Integer', iptr);
17464: CharWidth', 'integer', iptr);
17465: Font', 'TFont', iptrw);
17466: GutterWidth', 'Integer', iptr);
17467: Highlighter', 'TSynCustomHighlighter', iptrw);
17468: LeftChar', 'Integer', iptrw);
17469: LineHeight', 'integer', iptr);

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17470:   LinesInWindow', 'Integer', iptrw);
17471:   LineText', 'string', iptrw);
17472:   Lines', 'TStrings', iptrw);
17473:   Marks', 'TSynEditMarkList', iptr);
17474:   MaxScrollWidth', 'integer', iptrw);
17475:   Modified', 'Boolean', iptrw);
17476:   PaintLock', 'Integer', iptr);
17477:   ReadOnly', 'Boolean', iptrw);
17478:   SearchEngine', 'TSynEditSearchCustom', iptrw);
17479:   SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
17480:   SelTabBlock', 'Boolean', iptr);
17481:   SelTabLine', 'Boolean', iptr);
17482:   SelText', 'string', iptrw);
17483:   StateFlags', 'TSynStateFlags', iptr);
17484:   Text', 'string', iptrw);
17485:   TopLine', 'Integer', iptrw);
17486:   WordAtCursor', 'string', iptr);
17487:   WordAtMouse', 'string', iptr);
17488:   UndoList', 'TSynEditUndoList', iptr);
17489:   RedoList', 'TSynEditUndoList', iptr);
17490:   OnProcessCommand', 'TProcessCommandEvent', iptrw);
17491:   BookMarkOptions', 'TSynBookMarkOpt', iptrw);
17492:   BorderStyle', 'TSynBorderStyle', iptrw);
17493:   ExtraLineSpacing', 'integer', iptrw);
17494:   Gutter', 'TSynGutter', iptrw);
17495:   HideSelection', 'boolean', iptrw);
17496:   InsertCaret', 'TSynEditCaretType', iptrw);
17497:   InsertMode', 'boolean', iptrw);
17498:   IsScrolling', 'Boolean', iptr);
17499:   Keystrokes', 'TSynEditKeyStrokes', iptrw);
17500:   MaxUndo', 'Integer', iptrw);
17501:   Options', 'TSynEditorOptions', iptrw);
17502:   OverwriteCaret', 'TSynEditCaretType', iptrw);
17503:   RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
17504:   ScrollHintColor', 'TColor', iptrw);
17505:   ScrollHintFormat', 'TScrollHintFormat', iptrw);
17506:   ScrollBars', 'TScrollStyle', iptrw);
17507:   SelectedColor', 'TSynSelectedColor', iptrw);
17508:   SelectionMode', 'TSynSelectionMode', iptrw);
17509:   ActiveSelectionMode', 'TSynSelectionMode', iptrw);
17510:   TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
17511:   WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
17512:   WordWrapGlyph', 'TSynGlyph', iptrw);
17513:   OnChange', 'TNotifyEvent', iptrw);
17514:   OnClearBookmark', 'TPlaceMarkEvent', iptrw);
17515:   OnCommandProcessed', 'TProcessCommandEvent', iptrw);
17516:   OnContextHelp', 'TContextHelpEvent', iptrw);
17517:   OnDropFiles', 'TDropFilesEvent', iptrw);
17518:   OnGutterClick', 'TGutterClickEvent', iptrw);
17519:   OnGutterGetText', 'TGutterGetTextEvent', iptrw);
17520:   OnGutterPaint', 'TGutterPaintEvent', iptrw);
17521:   OnMouseCursor', 'TMouseCursorEvent', iptrw);
17522:   OnPaint', 'TPaintEvent', iptrw);
17523:   OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
17524:   OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
17525:   OnReplaceText', 'TReplaceTextEvent', iptrw);
17526:   OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
17527:   OnStatusChange', 'TStatusChangeEvent', iptrw);
17528:   OnPaintTransient', 'TPaintTransient', iptrw);
17529:   OnScroll', 'TScrollEvent', iptrw);
17530:   end;
17531: end;
17532: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
17533: Function GetPlaceableHighlighters : TSynHighlighterList
17534: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
17535: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
17536: Procedure GetEditorCommandValues( Proc : TGetStrProc)
17537: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
17538: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
17539: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
17540: Function ConvertCodeStringToExtended( AString : String) : String
17541: Function ConvertExtendedToCodeString( AString : String) : String
17542: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand
17543: Function ConvertCodeStringToCommand( AString : String) : TSynEditorCommand
17544: Function IndexToEditorCommand( const AIndex : Integer) : Integer
17545:
17546: TSynEditorOption = (
17547:   eoAltSetsColumnMode, //Holding down the Alt Key will put the selection mode into columnar format
17548:   eoAutoIndent, //Will indent caret on newlines with same amount of leading whitespace as
17549:   // preceding line
17550:   eoAutoSizeMaxScrollWidth, //Automatically resizes the MaxScrollWidth property when inserting text
17551:   eoDisableScrollArrows, //Disables the scroll bar arrow buttons when you can't scroll in that
17552:   //direction any more
17553:   eoDragDropEditing, //Allows to select a block of text and drag it within document to another
17554:   // location
17555:   eoDropFiles, //Allows the editor accept OLE file drops
17556:   eoEnhanceHomeKey, //enhances home key positioning, similar to visual studio
17557:   eoEnhanceEndKey, //enhances End key positioning, similar to JDeveloper
17558:   eoGroupUndo, //When undoing/redoin actions, handle all continous changes the same kind

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17559:                                     // in one call
17560:                                     //instead undoing/redoing each command separately
17561:     eoHalfPageScroll,                //When scrolling with page-up and page-down commands, only scroll a half
17562:                                     //page at a time
17563:     eoHideShowScrollbars,           //if enabled, then scrollbars will only show if necessary.
17564:     If you have ScrollPastEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
17565:     eoKeepCaretX,                   //When moving through lines w/o cursor Past EOL, keeps X position of cursor
17566:     eoNoCaret,                      //Makes it so the caret is never visible
17567:     eoNoSelection,                  //Disables selecting text
17568:     eoRightMouseMovesCursor,        //When clicking with right mouse for popup menu, moves cursor to location
17569:     eoScrollByOneLess,              //Forces scrolling to be one less
17570:     eoScrollHintFollows,            //The scroll hint follows the mouse when scrolling vertically
17571:     eoScrollPastEof,                //Allows the cursor to go past the end of file marker
17572:     eoScrollPastEol,                //Allows cursor to go past last character into white space at end of a line
17573:     eoShowScrollHint,               //Shows a hint of the visible line numbers when scrolling vertically
17574:     eoShowSpecialChars,              //Shows the special Characters
17575:     eoSmartTabDelete,                //similar to Smart Tabs, but when you delete characters
17576:     eoSmartTabs,                    //When tabbing, cursor will go to non-white space character of previous line
17577:     eoSpecialLineDefaultFg,          //disables the foreground text color override using OnSpecialLineColor event
17578:     eoTabIndent,                    //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
17579:     eoTabsToSpaces,                 //Converts a tab character to a specified number of space characters
17580:     eoTrimTrailingSpaces             //Spaces at the end of lines will be trimmed and not saved
17581:
17582:     *****Important Editor Short Cuts*****);
17583: Double click to select a word and count words with highlighting.
17584: Triple click to select a line.
17585: CTRL+SHIFT+click to extend a selection.
17586: Drag with the ALT key down to select columns of text !!!
17587: Drag and drop is supported.
17588: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
17589: Type CTRL+A to select all.
17590: Type CTRL+N to set a new line.
17591: Type CTRL+T to delete a line or token. //Tokenizer
17592: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
17593: Type CTRL+Shift+T to add ToDo in line and list.
17594: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
17595: Type CTRL[0..9] to jump or get to bookmarks.
17596: Type Home to position cursor at beginning of current line and End to position it at end of line.
17597: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
17598: Page Up and Page Down work as expected.
17599: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
17600: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
17601:
17602: {$ Short Key Positions Ctrl<A-Z>: }
17603: def
17604:     <A> Select All
17605:     <B> Count Words
17606:     <C> Copy
17607:     <D> Internet Start
17608:     <E> Script List
17609:     <F> Find
17610:     <G> Goto
17611:     <H> Mark Line
17612:     <I> Interface List
17613:     <J> Code Completion
17614:     <K> Console
17615:     <L> Interface List Box
17616:     <M> Font Larger -
17617:     <N> New Line
17618:     <O> Open File
17619:     <P> Font Smaller +
17620:     <Q> Quit
17621:     <R> Replace
17622:     <S> Save!
17623:     <T> Delete Line
17624:     <U> Use Case Editor
17625:     <V> Paste
17626:     <W> URI Links
17627:     <X> Reserved for coding use internal
17628:     <Y> Delete Line
17629:     <Z> Undo
17630:
17631: ref
17632:     F1 Help
17633:     F2 Syntax Check
17634:     F3 Search Next
17635:     F4 New Instance
17636:     F5 Line Mark /Breakpoint
17637:     F6 Goto End
17638:     F7 Debug Step Into
17639:     F8 Debug Step Out
17640:     F9 Compile
17641:     F10 Menu
17642:     F11 Word Count Highlight
17643:     F12 Reserved for coding use internal
17644:
17645: def ReservedWords: array[0..78] of string =
17646:     ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
17647:      'constructor', 'default', 'destructor', 'dispinterface', 'div', 'do',

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17648: 'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
17649: 'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
17650: 'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
17651: 'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
17652: 'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
17653: 'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
17654: 'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
17655: 'uses', 'var', 'while', 'with', 'write', 'xor', 'private', 'protected',
17656: 'public', 'published', 'def', 'ref', 'using
17657: AllowedChars: array[0..5] of string = ('(',')', '[]', ' ', 't,t1,t2,t3: boolean;
17658:
17659: //-----
17660: //*****End of mX4 Public Tools API *****
17661: //-----
17662:
17663: Amount of Functions: 11299
17664: Amount of Procedures: 7289
17665: Amount of Constructors: 1181
17666: Totals of Calls: 19769
17667: SHA1: Win 3.9.9.88 119533C0725A9B9B2919849759AA2F6298EBFF28
17668:
17669:
17670: *****
17671: Short Manual with 50 Tips!
17672: *****
17673: - Install: just save your maxboxdef.ini before and then extract the zip file!
17674: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
17675: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
17676: - Menu: With <Ctrl><F3> you can search for code on examples
17677: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
17678: - Menu: Set Interface Navigator in menu /View/Intf Navigator
17679: - Menu: Switch or toggle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
17680:
17681: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
17682: - Inifile: Refresh (reload) the inifile after edit with ../Help/Config Update
17683: - Context Menu: You can printout your scripts as a pdf-file or html-export
17684: - Context: You do have a context menu with the right mouse click
17685:
17686: - Menu: With the UseCase Editor you can convert graphic formats too.
17687: - Menu: On menu Options you find Addons as compiled scripts
17688: - IDE: You don't need a mouse to handle maxbox, use shortcuts
17689: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
17690: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
17691: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
17692: or ttimer (you type classp and then CTRL J),or you type tstringlist and <Ctrl><J>
17693:
17694: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
17695: - Editor: After the end, you can write or copy notes or descriptions concerning the app or code
17696: - Code: If you code a loop till key-pressed use function: isKeyPressed;
17697: - Code: Macro set the macros #name, #date, #host, #path, #file, #head #sign, Tutorial maxbox_starter25.pdf
17698: - Code: change Syntax in autoboot macro 'maxbootscript.txt'
17699: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
17700: to delete and Click and mark to drag a bookmark
17701: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
17702: - IDE: A file info with system and script information you find in menu Program/Information
17703: - IDE: After change the config file in help you can update changes in menu Help/Config Update
17704: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
17705: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
17706: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
17707: - Editor: Set Bookmarks to check your work in app or code
17708: - Editor: With <Ctrl H> you set {$Active Line Color} and Fll you get Word Count Statistic on Output too
17709: - Editor: With {///TODO: some description} or DONE you set code entries for ToDo List in ../Help/ToDo List
17710: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
17711:
17712: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
17713: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
17714: - Menu: Set Interface Navigator also with toggle <Ctrl L> or /View/Intf Navigator
17715: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
17716: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
17717: - Code Editor: Compile with <F9> but also Alt C in case <F9> isnt available;
17718: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
17719: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
17720:
17721: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
17722: - Add on when no browser is available start /Options/Add ons/Easy Browser
17723: - Add on SOAP Tester with SOP POST File
17724: - Add on IP Protocol Sniffer with List View
17725: - Add on OpenGL mX Robot Demo for android
17726:
17727: - Menu: Help/Tools as a Tool Section with DOS Opener
17728: - Menu Editor: export the code as RTF File
17729: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
17730: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
17731: - Context: Auto Detect of Syntax depending on file extension
17732: - Code: some Windows API function start with w in the name like wGetAtomName();
17733: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
17734: - IDE File Check with menu ../View/File Changes/...
17735:
17736: - using DLL example in maxbox: //function: {*****}

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17737:   Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
17738:                                   cb: DWORD): BOOL; //stdcall;;
17739:   External 'GetProcessMemoryInfo@psapi.dll stdcall';
17740:
17741:   Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
17742:   External 'OpenProcess@kernel32.dll stdcall';
17743:
17744:
17745: PCT Precompile Technology , mX4 ScriptStudio
17746: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
17747: DMATH, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
17748: emax layers: system-package-component-unit-class-function-block
17749: new keywords def ref using maXCalcF
17750: UML: use case act class state seq pac comp dep - lib lab
17751: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
17752: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
17753: https://unibe-ch.academia.edu/MaxKleiner
17754: www.slideshare.net/maxkleiner1
17755: http://www.scribd.com/max_kleiner
17756:
17757:
17758: *****
17759: unit List asm internal end
17760: *****
17761: 01 unit RIRegister_StrUtils_Routines(exec); //Delphi
17762: 02 unit SIRegister_IdStrings //Indy Sockets
17763: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
17764: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
17765: 05 unit IFSI_WinFormlpuzzle; //maXbox
17766: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImageFileLibBCB
17767: 07 unit RegisterDateTimeLibrary_R(exec); //Delphi
17768: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
17769: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
17770: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
17771: 11 unit uPSI_IdTCPConnection; //Indy some functions
17772: 12 unit uPSCompiler.pas; //PS kernel functions
17773: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
17774: 14 unit uPSI_Printers.pas //Delphi VCL
17775: 15 unit uPSI_MPlayer.pas //Delphi VCL
17776: 16 unit uPSC_comobj; //COM Functions
17777: 17 unit uPSI_Clipbrd; //Delphi VCL
17778: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
17779: 19 unit uPSI_SqlExpr; //DBX3
17780: 20 unit uPSI_ADODB; //ADODB
17781: 21 unit uPSI_StrHlpr; //String Helper Routines
17782: 22 unit uPSI_DateUtils; //Expansion to DateTimeLib
17783: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
17784: 24 unit JUtils / gsUtils; //Jedi / Metabase
17785: 25 unit JvFunctions_max; //Jedi Functions
17786: 26 unit HTTPParser; //Delphi VCL
17787: 27 unit HTTPUtil; //Delphi VCL
17788: 28 unit uPSI_XMLUtil; //Delphi VCL
17789: 29 unit uPSI_SOAPHTTIClient; //Delphi VCL SOAP WebService V3.5
17790: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
17791: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
17792: 32 unit uPSI_MyBigInt; //big integer class with Math
17793: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
17794: 34 unit Types_Variants; //Delphi(Win32)rtl\sys
17795: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
17796: 36 unit uPSI_IdHashMessageDigest //Indy Crypto;
17797: 37 unit uPSI_IdASNIUtil; //Indy ASN1Utility Routines;
17798: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
17799: 39 unit uPSI_IdIcmpClient; //Indy Ping ICMP
17800: 40 unit uPSI_IdHashMessageDigest_max //Indy Crypto &OpenSSL;
17801: 41 unit uPSI_FileCtrl; //Delphi RTL
17802: 42 unit uPSI_Outline; //Delphi VCL
17803: 43 unit uPSI_ScktComp; //Delphi RTL
17804: 44 unit uPSI_Calendar; //Delphi VCL
17805: 45 unit uPSI_VListView //VListView;
17806: 46 unit uPSI_DBGGrids; //Delphi VCL
17807: 47 unit uPSI_DBCtrls; //Delphi VCL
17808: 48 unit ide_debugoutput; //maXbox
17809: 49 unit uPSI_ComCtrls; //Delphi VCL
17810: 50 unit uPSC_stdCtrls+; //Delphi VCL
17811: 51 unit uPSI_Dialogs; //Delphi VCL
17812: 52 unit uPSI_StdConvs; //Delphi RTL
17813: 53 unit uPSI_DBClient; //Delphi RTL
17814: 54 unit uPSI_DBPlatform; //Delphi RTL
17815: 55 unit uPSI_Provider; //Delphi RTL
17816: 56 unit uPSI_FMTBcd; //Delphi RTL
17817: 57 unit uPSI_DBCGrids; //Delphi VCL
17818: 58 unit uPSI_CDSUtil; //MIDAS
17819: 59 unit uPSI_VarHlpr; //Delphi RTL
17820: 60 unit uPSI_ExtDlgs; //Delphi VCL
17821: 61 unit sdpStopwatch; //maXbox
17822: 62 unit uPSI_JclStatistics; //JCL
17823: 63 unit uPSI_JclLogic; //JCL
17824: 64 unit uPSI_JclMiscel; //JCL
17825: 65 unit uPSI_JclMath_max; //JCL RTL

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17826: 66 unit uPSI_uTPLb_StreamUtils;           //LockBox 3
17827: 67 unit uPSI_MathUtils;                     //BCB
17828: 68 unit uPSI_JclMultimedia;                 //JCL
17829: 69 unit uPSI_WideStrUtils;                 //Delphi API/RTL
17830: 70 unit uPSI_GraphUtil;                   //Delphi RTL
17831: 71 unit uPSI_TypeTrans;                   //Delphi RTL
17832: 72 unit uPSI_HTTPApp;                     //Delphi VCL
17833: 73 unit uPSI_DBWeb;                       //Delphi VCL
17834: 74 unit uPSI_DBBdeWeb;                   //Delphi VCL
17835: 75 unit uPSI_DBXpressWeb;                 //Delphi VCL
17836: 76 unit uPSI_ShadowWnd;                  //Delphi VCL
17837: 77 unit uPSI_ToolWin;                    //Delphi VCL
17838: 78 unit uPSI_Tabs;                       //Delphi VCL
17839: 79 unit uPSI_JclGraphUtils;               //JCL
17840: 80 unit uPSI_JclCounter;                  //JCL
17841: 81 unit uPSI_JclSysInfo;                 //JCL
17842: 82 unit uPSI_JclSecurity;                 //JCL
17843: 83 unit uPSI_JclFileUtils;               //JCL
17844: 84 unit uPSI_IdUserAccounts;             //Indy
17845: 85 unit uPSI_IdAuthentication;           //Indy
17846: 86 unit uPSI_uTPLb_AES;                   //LockBox 3
17847: 87 unit uPSI_IdHashSHA1;                 //LockBox 3
17848: 88 unit uTPLb_BlockCipher;               //LockBox 3
17849: 89 unit uPSI_ValEdit.pas;                 //Delphi VCL
17850: 90 unit uPSI_JvVCLUtils;                 //JCL
17851: 91 unit uPSI_JvDBUtil;                   //JCL
17852: 92 unit uPSI_JvDBUtils;                   //JCL
17853: 93 unit uPSI_JvAppUtils;                 //JCL
17854: 94 unit uPSI_JvCtrlUtils;                //JCL
17855: 95 unit uPSI_JvFormToHtml;               //JCL
17856: 96 unit uPSI_JvParsing;                  //JCL
17857: 97 unit uPSI_SerDlgs;                    //Toolbox
17858: 98 unit uPSI_Serial;                     //Toolbox
17859: 99 unit uPSI_JvComponent;                //JCL
17860: 100 unit uPSI_JvCalc;                    //JCL
17861: 101 unit uPSI_JvBdeUtils;                //JCL
17862: 102 unit uPSI_JvDateUtil;                //JCL
17863: 103 unit uPSI_JvGenetic;                 //JCL
17864: 104 unit uPSI_JclBase;                   //JCL
17865: 105 unit uPSI_JvUtils;                   //JCL
17866: 106 unit uPSI_JvStrUtil;                 //JCL
17867: 107 unit uPSI_JvStrUtils;                //JCL
17868: 108 unit uPSI_JvFileUtil;                //JCL
17869: 109 unit uPSI_JvMemoryInfos;              //JCL
17870: 110 unit uPSI_JvComputerInfo;            //JCL
17871: 111 unit uPSI_JvgCommClasses;            //JCL
17872: 112 unit uPSI_JvgLogics;                 //JCL
17873: 113 unit uPSI_JvLED;                     //JCL
17874: 114 unit uPSI_JvTurtle;                  //JCL
17875: 115 unit uPSI_SortThds; unit uPSI_ThSort; //maxbox
17876: 116 unit uPSI_JvgUtils;                  //JCL
17877: 117 unit uPSI_JvExprParser;              //JCL
17878: 118 unit uPSI_HexDump;                   //Borland
17879: 119 unit uPSI_DBLogDlg;                   //VCL
17880: 120 unit uPSI_SqlTimSt;                   //RTL
17881: 121 unit uPSI_JvHtmlParser;              //JCL
17882: 122 unit uPSI_JvgXMLSerializer;          //JCL
17883: 123 unit uPSI_JvJCLUtils;                //JCL
17884: 124 unit uPSI_JvStrings;                 //JCL
17885: 125 unit uPSI_uTPLb_IntegerUtils;         //TurboPower
17886: 126 unit uPSI_uTPLb_HugeCardinal;         //TurboPower
17887: 127 unit uPSI_uTPLb_HugeCardinalUtils;    //TurboPower
17888: 128 unit uPSI_SynRegExpr;                //SynEdit
17889: 129 unit uPSI_StUtils;                   //SysTools4
17890: 130 unit uPSI_StToHTML;                  //SysTools4
17891: 131 unit uPSI_StStrms;                    //SysTools4
17892: 132 unit uPSI_StFIN;                     //SysTools4
17893: 133 unit uPSI_StAstroP;                  //SysTools4
17894: 134 unit uPSI_StStat;                    //SysTools4
17895: 135 unit uPSI_StNetCon;                  //SysTools4
17896: 136 unit uPSI_StDecMth;                  //SysTools4
17897: 137 unit uPSI_StOStr;                    //SysTools4
17898: 138 unit uPSI_StPtrns;                   //SysTools4
17899: 139 unit uPSI_StNetMessage;              //SysTools4
17900: 140 unit uPSI_StMath;                    //SysTools4
17901: 141 unit uPSI_StExpEng;                  //SysTools4
17902: 142 unit uPSI_StCRC;                     //SysTools4
17903: 143 unit uPSI_StExport;                  //SysTools4
17904: 144 unit uPSI_StExpLog;                  //SysTools4
17905: 145 unit uPSI_ActnList;                  //Delphi VCL
17906: 146 unit uPSI_jpeg;                      //Borland
17907: 147 unit uPSI_StRandom;                  //SysTools4
17908: 148 unit uPSI_StDict;                    //SysTools4
17909: 149 unit uPSI_StBCD;                     //SysTools4
17910: 150 unit uPSI_StTxtDat;                  //SysTools4
17911: 151 unit uPSI_StRegEx;                   //SysTools4
17912: 152 unit uPSI_IMouse;                    //VCL
17913: 153 unit uPSI_SyncObjs;                  //VCL
17914: 154 unit uPSI_AsyncCalls;                //Hausladen

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17915: 155 unit uPSI_ParallelJobs; //Saraiva
17916: 156 unit uPSI_Variants; //VCL
17917: 157 unit uPSI_VarCmplx; //VCL Wolfram
17918: 158 unit uPSI_DTDSchema; //VCL
17919: 159 unit uPSI_ShLwApi; //Brakel
17920: 160 unit uPSI_IBUtils; //VCL
17921: 161 unit uPSI_CheckLst; //VCL
17922: 162 unit uPSI_JvSimpleXml; //JCL
17923: 163 unit uPSI_JclSimpleXml; //JCL
17924: 164 unit uPSI_JvXmlDatabase; //JCL
17925: 165 unit uPSI_JvMaxPixel; //JCL
17926: 166 unit uPSI_JvItemsSearchs; //JCL
17927: 167 unit uPSI_StExpEng2; //SysTools4
17928: 168 unit uPSI_StGenLog; //SysTools4
17929: 169 unit uPSI_JvLogFile; //Jcl
17930: 170 unit uPSI_CPort; //ComPort Lib v4.11
17931: 171 unit uPSI_CPortCtl; //ComPort
17932: 172 unit uPSI_CPortEsc; //ComPort
17933: 173 unit BarCodeScanner; //ComPort
17934: 174 unit uPSI_JvGraph; //JCL
17935: 175 unit uPSI_JvComCtrls; //JCL
17936: 176 unit uPSI_GUITesting; //D Unit
17937: 177 unit uPSI_JvFindFiles; //JCL
17938: 178 unit uPSI_StSystem; //SysTools4
17939: 179 unit uPSI_JvKeyboardStates; //JCL
17940: 180 unit uPSI_JvMail; //JCL
17941: 181 unit uPSI_JclConsole; //JCL
17942: 182 unit uPSI_JclLANMan; //JCL
17943: 183 unit uPSI_IdCustomHTTPServer; //Indy
17944: 184 unit IdHTTPServer; //Indy
17945: 185 unit uPSI_IdTCPServer; //Indy
17946: 186 unit uPSI_IdSocketHandle; //Indy
17947: 187 unit uPSI_IdIOHandlerSocket; //Indy
17948: 188 unit IdIOHandler; //Indy
17949: 189 unit uPSI_cutils; //Bloodshed
17950: 190 unit uPSI_BoldUtils; //boldsoft
17951: 191 unit uPSI_IdSimpleServer; //Indy
17952: 192 unit uPSI_IdSSLOpenSSL; //Indy
17953: 193 unit uPSI_IdMultipartFormData; //Indy
17954: 194 unit uPSI_SynURIOpener; //SynEdit
17955: 195 unit uPSI_PerlRegEx; //PCRE
17956: 196 unit uPSI_IdHeaderList; //Indy
17957: 197 unit uPSI_StFirst; //SysTools4
17958: 198 unit uPSI_JvCtrls; //JCL
17959: 199 unit uPSI_IdTrivialFTPBase; //Indy
17960: 200 unit uPSI_IdTrivialFTP; //Indy
17961: 201 unit uPSI_IdUDPBase; //Indy
17962: 202 unit uPSI_IdUDPClient; //Indy
17963: 203 unit uPSI_utypes; //for DMath.DLL
17964: 204 unit uPSI_ShellAPI; //Borland
17965: 205 unit uPSI_IdRemoteCMDClient; //Indy
17966: 206 unit uPSI_IdRemoteCMDServer; //Indy
17967: 207 unit IdRexecServer; //Indy
17968: 208 unit IdRexec; (unit uPSI_IdRexec;) //Indy
17969: 209 unit IdUDPServer; //Indy
17970: 210 unit IdTimeUDPServer; //Indy
17971: 211 unit IdTimeServer; //Indy
17972: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;) //Indy
17973: 213 unit uPSI_IdIPWatch; //Indy
17974: 214 unit uPSI_IdIrcServer; //Indy
17975: 215 unit uPSI_IdMessageCollection; //Indy
17976: 216 unit uPSI_cPEM; //Fundamentals 4
17977: 217 unit uPSI_cFundamentUtils; //Fundamentals 4
17978: 218 unit uPSI_uwinplot; //DMath
17979: 219 unit uPSI_xrtl_util_CPUUtils; //ExtendedRTL
17980: 220 unit uPSI_GR32_System; //Graphics32
17981: 221 unit uPSI_cFileUtils; //Fundamentals 4
17982: 222 unit uPSI_cDateTime; (timemachine) //Fundamentals 4
17983: 223 unit uPSI_cTimers; (high precision timer) //Fundamentals 4
17984: 224 unit uPSI_cRandom; //Fundamentals 4
17985: 225 unit uPSI_ueval; //DMath
17986: 226 unit uPSI_xrtl_net_URIUtils; //ExtendedRTL
17987: 227 unit xrtl_net_URIUtils; //ExtendedRTL
17988: 228 unit uPSI_ufft; (FFT) //DMath
17989: 229 unit uPSI_DBXChannel; //Delphi
17990: 230 unit uPSI_DBXIndyChannel; //Delphi Indy
17991: 231 unit uPSI_xrtl_util_COMCat; //ExtendedRTL
17992: 232 unit uPSI_xrtl_util_StrUtils; //ExtendedRTL
17993: 233 unit uPSI_xrtl_util_VariantUtils; //ExtendedRTL
17994: 234 unit uPSI_xrtl_util_FileUtils; //ExtendedRTL
17995: 235 unit xrtl_util_Compat; //ExtendedRTL
17996: 236 unit uPSI_OleAuto; //Borland
17997: 237 unit uPSI_xrtl_util_COMUtils; //ExtendedRTL
17998: 238 unit uPSI_CmAdmCtl; //Borland
17999: 239 unit uPSI_VaEdit2; //VCL
18000: 240 unit uPSI_GR32; //Graphics32
18001: 241 unit uPSI_GR32_Image; //Graphics32
18002: 242 unit uPSI_xrtl_util_TimeUtils; //ExtendedRTL
18003: 243 unit uPSI_xrtl_util_TimeZone; //ExtendedRTL

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18004: 244 unit uPSI_xrtl_util_TimeStamp; //ExtendedRTL
18005: 245 unit uPSI_xrtl_util_Map; //ExtendedRTL
18006: 246 unit uPSI_xrtl_util_Set; //ExtendedRTL
18007: 247 unit uPSI_CPortMonitor; //ComPort
18008: 248 unit uPSI_StIniStm; //SysTools4
18009: 249 unit uPSI_GR32_ExtImage; //Graphics32
18010: 250 unit uPSI_GR32_OrdinalMaps; //Graphics32
18011: 251 unit uPSI_GR32_Rasterizers; //Graphics32
18012: 252 unit uPSI_xrtl_util_Exception; //ExtendedRTL
18013: 253 unit uPSI_xrtl_util_Value; //ExtendedRTL
18014: 254 unit uPSI_xrtl_util_Compare; //ExtendedRTL
18015: 255 unit uPSI_FlatSB; //VCL
18016: 256 unit uPSI_JvAnalogClock; //JCL
18017: 257 unit uPSI_JvAlarms; //JCL
18018: 258 unit uPSI_JvSQLS; //JCL
18019: 259 unit uPSI_JvDBSecur; //JCL
18020: 260 unit uPSI_JvDBQBE; //JCL
18021: 261 unit uPSI_JvStarfield; //JCL
18022: 262 unit uPSI_JvCLMiscal; //JCL
18023: 263 unit uPSI_JvProfiler32; //JCL
18024: 264 unit uPSI_JvDirectories; //JCL
18025: 265 unit uPSI_JclSchedule; //JCL
18026: 266 unit uPSI_JclSvcCtrl; //JCL
18027: 267 unit uPSI_JvSoundControl; //JCL
18028: 268 unit uPSI_JvBDESQLScript; //JCL
18029: 269 unit uPSI_JvgDigits; //JCL>
18030: 270 unit uPSI_ImgList; //TCustomImageList
18031: 271 unit uPSI_JclMIDI; //JCL>
18032: 272 unit uPSI_JclWinMidi; //JCL>
18033: 273 unit uPSI_JclNTFS; //JCL>
18034: 274 unit uPSI_JclAppInst; //JCL>
18035: 275 unit uPSI_JvRle; //JCL>
18036: 276 unit uPSI_JvRas32; //JCL>
18037: 277 unit uPSI_JvImageDrawThread; //JCL>
18038: 278 unit uPSI_JvImageWindow; //JCL>
18039: 279 unit uPSI_JvTransparentForm; //JCL>
18040: 280 unit uPSI_JvWinDialogs; //JCL>
18041: 281 unit uPSI_JvSimLogic; //JCL>
18042: 282 unit uPSI_JvSimIndicator; //JCL>
18043: 283 unit uPSI_JvSimPID; //JCL>
18044: 284 unit uPSI_JvSimPIDLinker; //JCL>
18045: 285 unit uPSI_IdRFCReply; //Indy
18046: 286 unit uPSI_IdIdent; //Indy
18047: 287 unit uPSI_IdIdentServer; //Indy
18048: 288 unit uPSI_JvPatchFile; //JCL
18049: 289 unit uPSI_StNetPfm; //SysTools4
18050: 290 unit uPSI_StNet; //SysTools4
18051: 291 unit uPSI_JclPeImage; //JCL
18052: 292 unit uPSI_JclPrint; //JCL
18053: 293 unit uPSI_JclMime; //JCL
18054: 294 unit uPSI_JvRichEdit; //JCL
18055: 295 unit uPSI_JvDBRichEd; //JCL
18056: 296 unit uPSI_JvDice; //JCL
18057: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
18058: 298 unit uPSI_JvDirFrm; //JCL
18059: 299 unit uPSI_JvDualList; //JCL
18060: 300 unit uPSI_JvSwitch; ///JCL
18061: 301 unit uPSI_JvTimerLst; ///JCL
18062: 302 unit uPSI_JvMemTable; //JCL
18063: 303 unit uPSI_JvObjStr; //JCL
18064: 304 unit uPSI_StLarr; //SysTools4
18065: 305 unit uPSI_StWmDCpy; //SysTools4
18066: 306 unit uPSI_StText; //SysTools4
18067: 307 unit uPSI_StNTLog; //SysTools4
18068: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
18069: 309 unit uPSI_JvImagPrvw; //JCL
18070: 310 unit uPSI_JvFormPatch; //JCL
18071: 311 unit uPSI_JvPicClip; //JCL
18072: 312 unit uPSI_JvDataConv; //JCL
18073: 313 unit uPSI_JvCpuUsage; //JCL
18074: 314 unit uPSI_JclUnitConv_mX2; //JCL
18075: 315 unit JvDualListForm; //JCL
18076: 316 unit uPSI_JvCpuUsage2; //JCL
18077: 317 unit uPSI_JvParserForm; //JCL
18078: 318 unit uPSI_JvJanTreeView; //JCL
18079: 319 unit uPSI_JvTransLED; //JCL
18080: 320 unit uPSI_JvPlaylist; //JCL
18081: 321 unit uPSI_JvFormAutoSize; //JCL
18082: 322 unit uPSI_JvYearGridEditForm; //JCL
18083: 323 unit uPSI_JvMarkupCommon; //JCL
18084: 324 unit uPSI_JvChart; //JCL
18085: 325 unit uPSI_JvXPCore; //JCL
18086: 326 unit uPSI_JvXPCoreUtils; //JCL
18087: 327 unit uPSI_StatsClasses; //mX4
18088: 328 unit uPSI_ExtCtrls2; //VCL
18089: 329 unit uPSI_JvUrlGrabbers; //JCL
18090: 330 unit uPSI_JvXmlTree; //JCL
18091: 331 unit uPSI_JvWavePlayer; //JCL
18092: 332 unit uPSI_JvUnicodeCanvas; //JCL

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18093: 333 unit uPSI_JvTFUtils; //JCL
18094: 334 unit uPSI_IdServerIOHandler; //Indy
18095: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
18096: 336 unit uPSI_IdMessageCoder; //Indy
18097: 337 unit uPSI_IdMessageCoderMIME; //Indy
18098: 338 unit uPSI_IdMIMETypes; //Indy
18099: 339 unit uPSI_JvConverter; //JCL
18100: 340 unit uPSI_JvCsvParse; //JCL
18101: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
18102: 342 unit uPSI_ExcelExport; (Nat:TJsExcelExport) //JCL
18103: 343 unit uPSI_JvDBGridExport; //JCL
18104: 344 unit uPSI_JvgExport; //JCL
18105: 345 unit uPSI_JvSerialMaker; //JCL
18106: 346 unit uPSI_JvWin32; //JCL
18107: 347 unit uPSI_JvPaintFX; //JCL
18108: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
18109: 349 unit uPSI_JvValidators; (preview) //JCL
18110: 350 unit uPSI_JvNTEventLog; //JCL
18111: 351 unit uPSI_ShellZipTool; //mX4
18112: 352 unit uPSI_JvJoystick; //JCL
18113: 353 unit uPSI_JvMailSlots; //JCL
18114: 354 unit uPSI_JclComplex; //JCL
18115: 355 unit uPSI_SynPdf; //Synopsis
18116: 356 unit uPSI_Registry; //VCL
18117: 357 unit uPSI_TlHelp32; //VCL
18118: 358 unit uPSI_JclRegistry; //JCL
18119: 359 unit uPSI_JvAirBrush; //JCL
18120: 360 unit uPSI_mORMotReport; //Synopsis
18121: 361 unit uPSI_JclLocales; //JCL
18122: 362 unit uPSI_SynEdit; //SynEdit
18123: 363 unit uPSI_SynEditTypes; //SynEdit
18124: 364 unit uPSI_SynMacroRecorder; //SynEdit
18125: 365 unit uPSI_LongIntList; //SynEdit
18126: 366 unit uPSI_devcutils; //DevC
18127: 367 unit uPSI_SynEditMiscClasses; //SynEdit
18128: 368 unit uPSI_SynEditRegexSearch; //SynEdit
18129: 369 unit uPSI_SynEditHighlighter; //SynEdit
18130: 370 unit uPSI_SynHighlighterPas; //SynEdit
18131: 371 unit uPSI_JvSearchFiles; //JCL
18132: 372 unit uPSI_SynHighlighterAny; //Lazarus
18133: 373 unit uPSI_SynEditKeyCmds; //SynEdit
18134: 374 unit uPSI_SynEditMiscProcs; //SynEdit
18135: 375 unit uPSI_SynEditKbdHandler; //SynEdit
18136: 376 unit uPSI_JvAppInst; //JCL
18137: 377 unit uPSI_JvAppEvent; //JCL
18138: 378 unit uPSI_JvAppCommand; //JCL
18139: 379 unit uPSI_JvAnimTitle; //JCL
18140: 380 unit uPSI_JvAnimatedImage; //JCL
18141: 381 unit uPSI_SynEditExport; //SynEdit
18142: 382 unit uPSI_SynExportHTML; //SynEdit
18143: 383 unit uPSI_SynExportRTF; //SynEdit
18144: 384 unit uPSI_SynEditSearch; //SynEdit
18145: 385 unit uPSI_fMain_back //maXbox;
18146: 386 unit uPSI_JvZoom; //JCL
18147: 387 unit uPSI_PMrand; //PM
18148: 388 unit uPSI_JvSticker; //JCL
18149: 389 unit uPSI_XmlVerySimple; //mX4
18150: 390 unit uPSI_Services; //ExtPascal
18151: 391 unit uPSI_ExtPascalUtils; //ExtPascal
18152: 392 unit uPSI_SocketsDelphi; //ExtPascal
18153: 393 unit uPSI_StBarC; //SysTools
18154: 394 unit uPSI_StDbBarC; //SysTools
18155: 395 unit uPSI_StBarPN; //SysTools
18156: 396 unit uPSI_StDbPNBC; //SysTools
18157: 397 unit uPSI_StDb2DBC; //SysTools
18158: 398 unit uPSI_StMoney; //SysTools
18159: 399 unit uPSI_JvForth; //JCL
18160: 400 unit uPSI_RestRequest; //mX4
18161: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
18162: 402 unit uPSI_JvXmlDatabase; //update //JCL
18163: 403 unit uPSI_StAstro; //SysTools
18164: 404 unit uPSI_StSort; //SysTools
18165: 405 unit uPSI_StDate; //SysTools
18166: 406 unit uPSI_StDateSt; //SysTools
18167: 407 unit uPSI_StBase; //SysTools
18168: 408 unit uPSI_StVInfo; //SysTools
18169: 409 unit uPSI_JvBrowseFolder; //JCL
18170: 410 unit uPSI_JvBoxProcs; //JCL
18171: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
18172: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
18173: 413 unit uPSI_JvHighlighter; //JCL
18174: 414 unit uPSI_Diff; //mX4
18175: 415 unit uPSI_SpringWinAPI; //DSpring
18176: 416 unit uPSI_StBits; //SysTools
18177: 417 unit uPSI_TomDBQueue; //mX4
18178: 418 unit uPSI_MultilangTranslator; //mX4
18179: 419 unit uPSI_HyperLabel; //mX4
18180: 420 unit uPSI_Starter; //mX4
18181: 421 unit uPSI_FileAssocs; //devC

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18182: 422 unit uPSI_devFileMonitorX; //devC
18183: 423 unit uPSI_devrun; //devC
18184: 424 unit uPSI_devExec; //devC
18185: 425 unit uPSI_oysUtils; //devC
18186: 426 unit uPSI_DosCommand; //devC
18187: 427 unit uPSI_CppTokenizer; //devC
18188: 428 unit uPSI_JvHLParse; //devC
18189: 429 unit uPSI_JclMapi; //JCL
18190: 430 unit uPSI_JclShell; //JCL
18191: 431 unit uPSI_JclCOM; //JCL
18192: 432 unit uPSI_GR32_Math; //Graphics32
18193: 433 unit uPSI_GR32_LowLevel; //Graphics32
18194: 434 unit uPSI_SimpleHl; //mX4
18195: 435 unit uPSI_GR32_Filters; //Graphics32
18196: 436 unit uPSI_GR32_VectorMaps; //Graphics32
18197: 437 unit uPSI_cXMLFunctions; //Fundamentals 4
18198: 438 unit uPSI_JvTimer; //JCL
18199: 439 unit uPSI_cHTTPUtils; //Fundamentals 4
18200: 440 unit uPSI_cTLSUtils; //Fundamentals 4
18201: 441 unit uPSI_JclGraphics; //JCL
18202: 442 unit uPSI_JclSynch; //JCL
18203: 443 unit uPSI_IdTelnet; //Indy
18204: 444 unit uPSI_IdTelnetServer; //Indy
18205: 445 unit uPSI_IdEcho; //Indy
18206: 446 unit uPSI_IdEchoServer; //Indy
18207: 447 unit uPSI_IdEchoUDP; //Indy
18208: 448 unit uPSI_IdEchoUDPServer; //Indy
18209: 449 unit uPSI_IdSocks; //Indy
18210: 450 unit uPSI_IdAntiFreezeBase; //Indy
18211: 451 unit uPSI_IdHostnameServer; //Indy
18212: 452 unit uPSI_IdTunnelCommon; //Indy
18213: 453 unit uPSI_IdTunnelMaster; //Indy
18214: 454 unit uPSI_IdTunnelSlave; //Indy
18215: 455 unit uPSI_IdRSH; //Indy
18216: 456 unit uPSI_IdRSHServer; //Indy
18217: 457 unit uPSI_Spring_Cryptography_Utils; //Spring4Delphi
18218: 458 unit uPSI_MapReader; //devC
18219: 459 unit uPSI_LibTar; //devC
18220: 460 unit uPSI_IdStack; //Indy
18221: 461 unit uPSI_IdBlockCipherIntercept; //Indy
18222: 462 unit uPSI_IdChargenServer; //Indy
18223: 463 unit uPSI_IdFTPServer; //Indy
18224: 464 unit uPSI_IdException; //Indy
18225: 465 unit uPSI_utexplot; //DMath
18226: 466 unit uPSI_uwinstr; //DMath
18227: 467 unit uPSI_VarRecUtils; //devC
18228: 468 unit uPSI_JvStringListToHtml; //JCL
18229: 469 unit uPSI_JvStringHolder; //JCL
18230: 470 unit uPSI_IdCoder; //Indy
18231: 471 unit uPSI_SynHighlighterDfm; //Synedit
18232: 472 unit uHighlighterProcs; in 471 //Synedit
18233: 473 unit uPSI_LazFileUtils; //LCL
18234: 474 unit uPSI_IDECmdLine; //LCL
18235: 475 unit uPSI_lazMasks; //LCL
18236: 476 unit uPSI_ip_misc; //mX4
18237: 477 unit uPSI_Barcode; //LCL
18238: 478 unit uPSI_SimpleXML; //LCL
18239: 479 unit uPSI_JclIniFiles; //JCL
18240: 480 unit uPSI_D2XXUnit; {$X-} //FTDI
18241: 481 unit uPSI_JclDateTime; //JCL
18242: 482 unit uPSI_JclEDI; //JCL
18243: 483 unit uPSI_JclMiscel2; //JCL
18244: 484 unit uPSI_JclValidation; //JCL
18245: 485 unit uPSI_JclAnsiStrings; {-PString} //JCL
18246: 486 unit uPSI_SynEditMiscProcs2; //Synedit
18247: 487 unit uPSI_JclStreams; //JCL
18248: 488 unit uPSI_QRCode; //mX4
18249: 489 unit uPSI_BlockSocket; //ExtPascal
18250: 490 unit uPSI_Masks_Utils; //VCL
18251: 491 unit uPSI_synautil; //Synapse!
18252: 492 unit uPSI_JclMath_Class; //JCL RTL
18253: 493 unit ugamdist; //Gamma function //DMath
18254: 494 unit uibeta, ucorrel; //IBeta //DMath
18255: 495 unit uPSI_SRMgr; //mX4
18256: 496 unit uPSI_HotLog; //mX4
18257: 497 unit uPSI_DebugBox; //mX4
18258: 498 unit uPSI_ustrings; //DMath
18259: 499 unit uPSI_uregtest; //DMath
18260: 500 unit uPSI_usimplex; //DMath
18261: 501 unit uPSI_uhyper; //DMath
18262: 502 unit uPSI_IdHL7; //Indy
18263: 503 unit uPSI_IdIPMCastBase; //Indy
18264: 504 unit uPSI_IdIPMCastServer; //Indy
18265: 505 unit uPSI_IdIPMCastClient; //Indy
18266: 506 unit uPSI_unlfit; //nlregression //DMath
18267: 507 unit uPSI_IdRawHeaders; //Indy
18268: 508 unit uPSI_IdRawClient; //Indy
18269: 509 unit uPSI_IdRawFunctions; //Indy
18270: 510 unit uPSI_IdTCPStream; //Indy

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18271: 511 unit uPSI_IdSNPP; //Indy
18272: 512 unit uPSI_St2DBarC; //SysTools
18273: 513 unit uPSI_ImageWin; //FTL //VCL
18274: 514 unit uPSI_CustomDrawTreeView; //FTL //VCL
18275: 515 unit uPSI_GraphWin; //FTL //VCL
18276: 516 unit uPSI_actionMain; //FTL //VCL
18277: 517 unit uPSI_StSpawn; //SysTools
18278: 518 unit uPSI_CtlPanel; //VCL
18279: 519 unit uPSI_IdLPR; //Indy
18280: 520 unit uPSI_SockRequestInterpreter; //Indy
18281: 521 unit uPSI_ulambert; //DMath
18282: 522 unit uPSI_ucholesk; //DMath
18283: 523 unit uPSI_SimpleDS; //VCL
18284: 524 unit uPSI_DBXSqlScanner; //VCL
18285: 525 unit uPSI_DBXMetadataUtil; //VCL
18286: 526 unit uPSI_Chart; //TEE
18287: 527 unit uPSI_TeeProcs; //TEE
18288: 528 unit mXBDEUtils; //mX4
18289: 529 unit uPSI_MDIEdit; //VCL
18290: 530 unit uPSI_CopyPrsr; //VCL
18291: 531 unit uPSI_SockApp; //VCL
18292: 532 unit uPSI_AppEvnts; //VCL
18293: 533 unit uPSI_ExtActns; //VCL
18294: 534 unit uPSI_TeEngine; //TEE
18295: 535 unit uPSI_CoolMain; //browser //VCL
18296: 536 unit uPSI_StCRC; //SysTools
18297: 537 unit uPSI_StDecMth2; //SysTools
18298: 538 unit uPSI_frmExportMain; //Synedit
18299: 539 unit uPSI_SynDBEdit; //Synedit
18300: 540 unit uPSI_SynEditWildcardSearch; //Synedit
18301: 541 unit uPSI_BoldComUtils; //BOLD
18302: 542 unit uPSI_BoldIsoDateTime; //BOLD
18303: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
18304: 544 unit uPSI_BoldXMLRequests; //BOLD
18305: 545 unit uPSI_BoldStringList; //BOLD
18306: 546 unit uPSI_BoldFileHandler; //BOLD
18307: 547 unit uPSI_BoldContainers; //BOLD
18308: 548 unit uPSI_BoldQueryUserDlg; //BOLD
18309: 549 unit uPSI_BoldWinINet; //BOLD
18310: 550 unit uPSI_BoldQueue; //BOLD
18311: 551 unit uPSI_JvPcx; //JCL
18312: 552 unit uPSI_IdWhois; //Indy
18313: 553 unit uPSI_IdWhoIsServer; //Indy
18314: 554 unit uPSI_IdGopher; //Indy
18315: 555 unit uPSI_IdDateTimeStamp; //Indy
18316: 556 unit uPSI_IdDayTimeServer; //Indy
18317: 557 unit uPSI_IdDayTimeUDP; //Indy
18318: 558 unit uPSI_IdDayTimeUDPServer; //Indy
18319: 559 unit uPSI_IdDICTServer; //Indy
18320: 560 unit uPSI_IdDiscardServer; //Indy
18321: 561 unit uPSI_IdDiscardUDPServer; //Indy
18322: 562 unit uPSI_IdMappedFTP; //Indy
18323: 563 unit uPSI_IdMappedPortTCP; //Indy
18324: 564 unit uPSI_IdGopherServer; //Indy
18325: 565 unit uPSI_IdQotdServer; //Indy
18326: 566 unit uPSI_JvRgbToHtml; //JCL
18327: 567 unit uPSI_JvRemLog; //JCL
18328: 568 unit uPSI_JvSysComp; //JCL
18329: 569 unit uPSI_JvTMTL; //JCL
18330: 570 unit uPSI_JvWinampAPI; //JCL
18331: 571 unit uPSI_MSysUtils; //mX4
18332: 572 unit uPSI_ESBMaths; //ESB
18333: 573 unit uPSI_ESBMaths2; //ESB
18334: 574 unit uPSI_uLkJSON; //Lk
18335: 575 unit uPSI_ZURL; //Zeos
18336: 576 unit uPSI_ZSysUtils; //Zeos
18337: 577 unit unaUtils internals; //UNA
18338: 578 unit uPSI_ZMatchPattern; //Zeos
18339: 579 unit uPSI_ZClasses; //Zeos
18340: 580 unit uPSI_ZCollections; //Zeos
18341: 581 unit uPSI_ZEncoding; //Zeos
18342: 582 unit uPSI_IdRawBase; //Indy
18343: 583 unit uPSI_IdNTLM; //Indy
18344: 584 unit uPSI_IdNNTP; //Indy
18345: 585 unit uPSI_usniffer; //PortScanForm //mX4
18346: 586 unit uPSI_IdCoderMIME; //Indy
18347: 587 unit uPSI_IdCoderUUE; //Indy
18348: 588 unit uPSI_IdCoderXXE; //Indy
18349: 589 unit uPSI_IdCoder3to4; //Indy
18350: 590 unit uPSI_IdCookie; //Indy
18351: 591 unit uPSI_IdCookieManager; //Indy
18352: 592 unit uPSI_WDosSocketUtils; //WDos
18353: 593 unit uPSI_WDosPlcUtils; //WDos
18354: 594 unit uPSI_WDosPorts; //WDos
18355: 595 unit uPSI_WDosResolvers; //WDos
18356: 596 unit uPSI_WDosTimers; //WDos
18357: 597 unit uPSI_WDosPlcs; //WDos
18358: 598 unit uPSI_WDosPneumatics; //WDos
18359: 599 unit uPSI_IdFingerServer; //Indy

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18360: 600 unit uPSI_IdDNSResolver; //Indy
18361: 601 unit uPSI_IdHTTPWebBrokerBridge; //Indy
18362: 602 unit uPSI_IdIntercept; //Indy
18363: 603 unit uPSI_IdIPMCastBase; //Indy
18364: 604 unit uPSI_IdLogBase; //Indy
18365: 605 unit uPSI_IdIOHandlerStream; //Indy
18366: 606 unit uPSI_IdMappedPortUDP; //Indy
18367: 607 unit uPSI_IdQOTDUDPServer; //Indy
18368: 608 unit uPSI_IdQOTDUDP; //Indy
18369: 609 unit uPSI_IdSysLog; //Indy
18370: 610 unit uPSI_IdSysLogServer; //Indy
18371: 611 unit uPSI_IdSysLogMessage; //Indy
18372: 612 unit uPSI_IdTimeServer; //Indy
18373: 613 unit uPSI_IdTimeUDP; //Indy
18374: 614 unit uPSI_IdTimeUDPServer; //Indy
18375: 615 unit uPSI_IdUserAccounts; //Indy
18376: 616 unit uPSI_TextUtils; //mX4
18377: 617 unit uPSI_MandelbrotEngine; //mX4
18378: 618 unit uPSI_delphi_arduino_Unit1; //mX4
18379: 619 unit uPSI_DTDSchema2; //mX4
18380: 620 unit uPSI_fplotMain; //DMath
18381: 621 unit uPSI_FindFileIter; //mX4
18382: 622 unit uPSI_PppState; (JclStrHashMap) //PPP
18383: 623 unit uPSI_PppParser; //PPP
18384: 624 unit uPSI_PppLexer; //PPP
18385: 625 unit uPSI_PCharUtils; //PPP
18386: 626 unit uPSI_uJSON; //WU
18387: 627 unit uPSI_JclStrHashMap; //JCL
18388: 628 unit uPSI_JclHookExcept; //JCL
18389: 629 unit uPSI_EncdDecd; //VCL
18390: 630 unit uPSI_SockAppReg; //VCL
18391: 631 unit uPSI_PJFileHandle; //PJ
18392: 632 unit uPSI_PJEnvVars; //PJ
18393: 633 unit uPSI_PJPipe; //PJ
18394: 634 unit uPSI_PJPipeFilters; //PJ
18395: 635 unit uPSI_PJConsoleApp; //PJ
18396: 636 unit uPSI_UConsoleAppEx; //PJ
18397: 637 unit uPSI_DbxSocketChannelNative; //VCL
18398: 638 unit uPSI_DbxDataGenerator; //VCL
18399: 639 unit uPSI_DBXClient; //VCL
18400: 640 unit uPSI_IdLogEvent; //Indy
18401: 641 unit uPSI_Reversi; //mX4
18402: 642 unit uPSI_Geometry; //mX4
18403: 643 unit uPSI_IdSMTPServer; //Indy
18404: 644 unit uPSI_Textures; //mX4
18405: 645 unit uPSI_IBX; //VCL
18406: 646 unit uPSI_IWDBCommon; //VCL
18407: 647 unit uPSI_SortGrid; //mX4
18408: 648 unit uPSI_IB; //VCL
18409: 649 unit uPSI_IBScript; //VCL
18410: 650 unit uPSI_JvCSVBaseControls; //JCL
18411: 651 unit uPSI_Jvg3DColors; //JCL
18412: 652 unit uPSI_JvHLEditor; //beat //JCL
18413: 653 unit uPSI_JvShellHook; //JCL
18414: 654 unit uPSI_DBCommon2; //VCL
18415: 655 unit uPSI_JvSHFileOperation; //JCL
18416: 656 unit uPSI_uFileexport; //mX4
18417: 657 unit uPSI_JvDialogs; //JCL
18418: 658 unit uPSI_JvDBTreeView; //JCL
18419: 659 unit uPSI_JvDBUltimGrid; //JCL
18420: 660 unit uPSI_JvDBQueryParamsForm; //JCL
18421: 661 unit uPSI_JvExControls; //JCL
18422: 662 unit uPSI_JvBDEMemTable; //JCL
18423: 663 unit uPSI_JvCommStatus; //JCL
18424: 664 unit uPSI_JvMailSlots2; //JCL
18425: 665 unit uPSI_JvgWinMask; //JCL
18426: 666 unit uPSI_StEclipse; //SysTools
18427: 667 unit uPSI_StMime; //SysTools
18428: 668 unit uPSI_StList; //SysTools
18429: 669 unit uPSI_StMerge; //SysTools
18430: 670 unit uPSI_StStrS; //SysTools
18431: 671 unit uPSI_StTree; //SysTools
18432: 672 unit uPSI_StVArr; //SysTools
18433: 673 unit uPSI_StRegIni; //SysTools
18434: 674 unit uPSI_urkf; //DMath
18435: 675 unit uPSI_usvd; //DMath
18436: 676 unit uPSI_DepWalkUtils; //JCL
18437: 677 unit uPSI_OptionsFrm; //JCL
18438: 678 unit yuvconverts; //mX4
18439: 679 uPSI_JvPropAutoSave; //JCL
18440: 680 uPSI_AclAPI; //alcinoe
18441: 681 uPSI_AviCap; //alcinoe
18442: 682 uPSI_ALAVLBinaryTree; //alcinoe
18443: 683 uPSI_ALFcnMisc; //alcinoe
18444: 684 uPSI_ALStringList; //alcinoe
18445: 685 uPSI_ALQuickSortList; //alcinoe
18446: 686 uPSI_ALStaticText; //alcinoe
18447: 687 uPSI_ALJSONDoc; //alcinoe
18448: 688 uPSI_ALGSMComm; //alcinoe

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18449: 689 uPSI_ALWindows; //alcinoe
18450: 690 uPSI_ALMultiPartFormDataParser; //alcinoe
18451: 691 uPSI_ALHttpCommon; //alcinoe
18452: 692 uPSI_ALWebSpider; //alcinoe
18453: 693 uPSI_ALHttpClient; //alcinoe
18454: 694 uPSI_ALFcnHTML; //alcinoe
18455: 695 uPSI_ALFTPClient; //alcinoe
18456: 696 uPSI_ALInternetMessageCommon; //alcinoe
18457: 697 uPSI_ALWininetHttpClient; //alcinoe
18458: 698 uPSI_ALWininetFTPClient; //alcinoe
18459: 699 uPSI_ALWinHttpWrapper; //alcinoe
18460: 700 uPSI_ALWinHttpClient; //alcinoe
18461: 701 uPSI_ALFcnWinSock; //alcinoe
18462: 702 uPSI_ALFcnSQL; //alcinoe
18463: 703 uPSI_ALFcnCGI; //alcinoe
18464: 704 uPSI_ALFcnExecute; //alcinoe
18465: 705 uPSI_ALFcnFile; //alcinoe
18466: 706 uPSI_ALFcnMime; //alcinoe
18467: 707 uPSI_ALPhpRunner; //alcinoe
18468: 708 uPSI_ALGraphic; //alcinoe
18469: 709 uPSI_ALIniFiles; //alcinoe
18470: 710 uPSI_ALMemCachedClient; //alcinoe
18471: 711 unit uPSI_MyGrids; //mX4
18472: 712 uPSI_ALMultiPartMixedParser //alcinoe
18473: 713 uPSI_ALSMTPClient //alcinoe
18474: 714 uPSI_ALNTPClient; //alcinoe
18475: 715 uPSI_ALHintBalloon; //alcinoe
18476: 716 unit uPSI_ALXmlDoc; //alcinoe
18477: 717 unit uPSI_IPCThrd; //VCL
18478: 718 unit uPSI_MonForm; //VCL
18479: 719 unit uPSI_TeCanvas; //Orpheus
18480: 720 unit uPSI_Ovcmisc; //Orpheus
18481: 721 unit uPSI_ovcfiler; //Orpheus
18482: 722 unit uPSI_ovcstate; //Orpheus
18483: 723 unit uPSI_ovccoco; //Orpheus
18484: 724 unit uPSI_ovcrvexp; //Orpheus
18485: 725 unit uPSI_OvcFormatSettings; //Orpheus
18486: 726 unit uPSI_OvcUtils; //Orpheus
18487: 727 unit uPSI_ovcstore; //Orpheus
18488: 728 unit uPSI_ovcstr; //Orpheus
18489: 729 unit uPSI_ovcmru; //Orpheus
18490: 730 unit uPSI_ovccmd; //Orpheus
18491: 731 unit uPSI_ovctimer; //Orpheus
18492: 732 unit uPSI_ovcintl; //Orpheus
18493: 733 uPSI_AfCircularBuffer; //AsyncFree
18494: 734 uPSI_AfUtils; //AsyncFree
18495: 735 uPSI_AfSafeSync; //AsyncFree
18496: 736 uPSI_AfComPortCore; //AsyncFree
18497: 737 uPSI_AfComPort; //AsyncFree
18498: 738 uPSI_AfPortControls; //AsyncFree
18499: 739 uPSI_AfDataDispatcher; //AsyncFree
18500: 740 uPSI_AfViewers; //AsyncFree
18501: 741 uPSI_AfDataTerminal; //AsyncFree
18502: 742 uPSI_SimplePortMain; //AsyncFree
18503: 743 unit uPSI_ovcclock; //Orpheus
18504: 744 unit uPSI_o32intlst; //Orpheus
18505: 745 unit uPSI_o32ledlabel; //Orpheus
18506: 746 unit uPSI_ALMySQLClient; //alcinoe
18507: 747 unit uPSI_ALFBXClient; //alcinoe
18508: 748 unit uPSI_ALFcnSQL; //alcinoe
18509: 749 unit uPSI_AsyncTimer; //mX4
18510: 750 unit uPSI_ApplicationFileIO; //mX4
18511: 751 unit uPSI_PsAPI; //VCLÉ
18512: 752 uPSI_ovcuser; //Orpheus
18513: 753 uPSI_ovcurl; //Orpheus
18514: 754 uPSI_ovcvlb; //Orpheus
18515: 755 uPSI_ovccolor; //Orpheus
18516: 756 uPSI_ALFBXLib; //alcinoe
18517: 757 uPSI_ovcmeter; //Orpheus
18518: 758 uPSI_ovcpeakm; //Orpheus
18519: 759 uPSI_O32BGSty; //Orpheus
18520: 760 uPSI_ovcBidi; //Orpheus
18521: 761 uPSI_ovtcary; //Orpheus
18522: 762 uPSI_DXPUtils; //mX4
18523: 763 uPSI_ALMultiPartBaseParser; //alcinoe
18524: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
18525: 765 uPSI_ALPOP3Client; //alcinoe
18526: 766 uPSI_SmallUtils; //mX4
18527: 767 uPSI_MakeApp; //mX4
18528: 768 uPSI_O32MouseMon; //Orpheus
18529: 769 uPSI_OvcCache; //Orpheus
18530: 770 uPSI_ovccalc; //Orpheus
18531: 771 uPSI_Joystick; //OpenGL
18532: 772 uPSI_ScreenSaver; //OpenGL
18533: 773 uPSI_XCollection; //OpenGL
18534: 774 uPSI_Polynomials; //OpenGL
18535: 775 uPSI_PersistentClasses, //9.86 //OpenGL
18536: 776 uPSI_VectorLists; //OpenGL
18537: 777 uPSI_XOpenGL; //OpenGL

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18538: 778 uPSI_MeshUtils; //OpenGL
18539: 779 unit uPSI_JclSysUtils; //JCL
18540: 780 unit uPSI_JclBorlandTools; //JCL
18541: 781 unit JclFileUtils_max; //JCL
18542: 782 uPSI_AfDataControls, //AsyncFree
18543: 783 uPSI_GLSilhouette; //OpenGL
18544: 784 uPSI_JclSysUtils_class; //JCL
18545: 785 uPSI_JclFileUtils_class; //JCL
18546: 786 uPSI_FileUtil; //JCL
18547: 787 uPSI_changefind; //mX4
18548: 788 uPSI_cmdIntf; //mX4
18549: 789 uPSI_fservice; //mX4
18550: 790 uPSI_Keyboard; //OpenGL
18551: 791 uPSI_VRMLParser, //OpenGL
18552: 792 uPSI_GLFileVRML, //OpenGL
18553: 793 uPSI-Octree; //OpenGL
18554: 794 uPSI_GLPolyhedron, //OpenGL
18555: 795 uPSI_GLCrossPlatform; //OpenGL
18556: 796 uPSI_GLParticles; //OpenGL
18557: 797 uPSI_GLNavigator; //OpenGL
18558: 798 uPSI_GLStarRecord; //OpenGL
18559: 799 uPSI_GLTextureCombiners; //OpenGL
18560: 800 uPSI_GLCanvas; //OpenGL
18561: 801 uPSI_GeometryBB; //OpenGL
18562: 802 uPSI_GeometryCoordinates; //OpenGL
18563: 803 uPSI_VectorGeometry; //OpenGL
18564: 804 uPSI_BumpMapping; //OpenGL
18565: 805 uPSI_TGA; //OpenGL
18566: 806 uPSI_GLVectorFileObjects; //OpenGL
18567: 807 uPSI_IMM; //VCL
18568: 808 uPSI_CategoryButtons; //VCL
18569: 809 uPSI_ButtonGroup; //VCL
18570: 810 uPSI_DbExcept; //VCL
18571: 811 uPSI_AxCtrls; //VCL
18572: 812 uPSI_GL_actorUnit1; //OpenGL
18573: 813 uPSI_StdVCL; //VCL
18574: 814 unit CurvesAndSurfaces; //OpenGL
18575: 815 uPSI_DataAwareMain; //AsyncFree
18576:
18577:
18578:
18579: //////////////////////////////////////
18580: //Form Template Library FTL
18581: //////////////////////////////////////
18582:
18583: 25 FTL For Form Building out of the Script, eg. 399_form_templates.txt
18584:
18585: 045 unit uPSI_VListView TFormListView;
18586: 263 unit uPSI_JvProfiler32; TProfReport
18587: 270 unit uPSI_ImgList; TCustomImageList
18588: 278 unit uPSI_JvImageWindow; TJvImageWindow
18589: 317 unit uPSI_JvParserForm; TJvHTMLParserForm
18590: 497 unit uPSI_DebugBox; TDebugBox
18591: 513 unit uPSI_ImageWin; TImageForm, TImageForm2
18592: 514 unit uPSI_CustomDrawTreeView; TCustomDrawForm
18593: 515 unit uPSI_GraphWin; TGraphWinForm
18594: 516 unit uPSI_actionMain; TActionForm
18595: 518 unit uPSI_CtlPanel; TAppletApplication
18596: 529 unit uPSI_MDIEdit; TEditForm
18597: 535 unit uPSI_CoolMain; {browser} TWebMainForm
18598: 538 unit uPSI_frmExportMain; TSynexportForm
18599: 585 unit uPSI_usniffer; {PortScanForm} TSniffForm
18600: 600 unit uPSI_ThreadForm; TThreadSortForm;
18601: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm
18602: 620 unit uPSI_fplotMain; TfplotForm1
18603: 660 unit uPSI_JvDBQueryParamsForm; TJvQueryParamsDialog
18604: 677 unit uPSI_OptionsFrm; TfrmOptions;
18605: 718 unit uPSI_MonForm; TMonitorForm
18606: 742 unit uPSI_SimplePortMain; TPortForm1
18607: 770 unit uPSI_ovccalc; TOvcCalculator //widget
18608: 810 unit uPSI_DbExcept; TDbEngineErrorDlg
18609:
18610:
18611: ex.:with TEditForm.create(self) do begin
18612:   caption:= 'Template Form Tester';
18613:   FormStyle:= fsStayOnTop;
18614:   with editor do begin
18615:     Lines.LoadFromFile(Exepath+'\\docs\\Readme_rus_mX2.rtf
18616:     SelStart:= 0;
18617:     Modified:= False;
18618:   end;
18619: end;
18620: with TWebMainForm.create(self) do begin
18621:   URLs.Text:= 'http://www.kleiner.ch';
18622:   URLsClick(self); Show;
18623: end;
18624: with TSynexportForm.create(self) do begin
18625:   Caption:= 'Synexport HTML RTF tester';
18626:   Show;

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18627: end;
18628: with TThreadSortForm.create(self) do begin
18629:   showmodal; free;
18630: end;
18631:
18632: with TCustomDrawForm.create(self) do begin
18633:   width:=820; height:=820;
18634:   image1.height:= 600; //add properties
18635:   image1.picture.bitmap:= image2.picture.bitmap;
18636:   //SelectionBackground1Click(self) CustomDraw1Click(self);
18637:   Background1.click;
18638:   bitmap1.click;
18639:   Tile1.click;
18640:   Showmodal;
18641:   Free;
18642: end;
18643:
18644: with TfplotForm1.Create(self) do begin
18645:   BtnPlotClick(self);
18646:   Showmodal; Free;
18647: end;
18648:
18649: with TOvcCalculator.create(self) do begin
18650:   parent:= aForm;
18651:   //free;
18652:   setbounds(550,510,200,150);
18653:   displaystr:= 'maXcalc';
18654: end;
18655:
18656:
18657: //////////////////////////////////////
18658: All maXbox Tutorials Table of Content 2014
18659: //////////////////////////////////////
18660: Tutorial 00 Function-Coding (Blix the Programmer)
18661: Tutorial 01 Procedural-Coding
18662: Tutorial 02 OO-Programming
18663: Tutorial 03 Modular Coding
18664: Tutorial 04 UML Use Case Coding
18665: Tutorial 05 Internet Coding
18666: Tutorial 06 Network Coding
18667: Tutorial 07 Game Graphics Coding
18668: Tutorial 08 Operating System Coding
18669: Tutorial 09 Database Coding
18670: Tutorial 10 Statistic Coding
18671: Tutorial 11 Forms Coding
18672: Tutorial 12 SQL DB Coding
18673: Tutorial 13 Crypto Coding
18674: Tutorial 14 Parallel Coding
18675: Tutorial 15 Serial RS232 Coding
18676: Tutorial 16 Event Driven Coding
18677: Tutorial 17 Web Server Coding
18678: Tutorial 18 Arduino System Coding
18679: Tutorial 18_3 RGB LED System Coding
18680: Tutorial 19 WinCOM /Arduino Coding
18681: Tutorial 20 Regular Expressions RegEx
18682: Tutorial 21 Android Coding (coming 2013)
18683: Tutorial 22 Services Programming
18684: Tutorial 23 Real Time Systems
18685: Tutorial 24 Clean Code
18686: Tutorial 25 maXbox Configuration I+II
18687: Tutorial 26 Socket Programming with TCP
18688: Tutorial 27 XML & TreeView
18689: Tutorial 28 DLL Coding (coming 2014)
18690: Tutorial 29 UML Scripting (coming 2014)
18691: Tutorial 30 Web of Things (coming 2014)
18692: Tutorial 31 Closures (coming 2014)
18693: Tutorial 32 SQL Firebird (coming 2014)
18694:
18695:
18696: ref Docu for all Type Class and Const in maXbox_types.pdf
18697: using Docu for this file is maxbox_functions_all.pdf
18698: PEP - Pascal Education Program Lib Lab
18699:
18700:
18701: http://stackoverflow.com/tags/pascalscript/hot
18702: http://www.jrssoftware.org/ishelp/index.php?topic=scriptfunctions
18703: http://sourceforge.net/projects/maXbox #locs:15162
18704: http://sourceforge.net/apps/mediawiki/maXbox
18705: http://www.blaisepascal.eu/
18706: https://github.com/maxkleiner/maXbox3.git
18707: http://www.heise.de/download/maxbox-1176464.html
18708: http://www.softpedia.com/get/Programming/Other-Programming-Files/maXbox.shtml
18709:
18710: ---- bigbitbox code_cleared_checked----
```