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1: ****
2: Constructor Function and Procedure List of maxbox 3.9.9.100
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: 23070208 V3.9.9.100 Nov 2014 To EKON/BASTA/JAX/IBZ/SWS/EU/DT/PASCON
10: *****Now the Funclist*****
11: Funclist Function : 13556 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 8327 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1338 //995 //
16: def head:max: maxbox7: 10.10.2014 09:11:55
17: file E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt
18: doc file: maxbox_extract_funclist399_.txt (sort function list)
19: -----
20: Funclist total Size all is: 23221! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 23620
22: ASize of EXE: 23070208 (22041600) (16586240) (13511680)
23: SHA1 Hash of maxbox 3.9.9.100: B1CFFA2139BEF2D27D17C8212331A1E8C7584BD2
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 : TINDEXDEF
89: Function AddItem(const Caption:String;const ImageIdx,SelectImageIdx,OverlayImagIdx,
    Indent:Int;Data:Ptr):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 AddParamSQLForDetail(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: TTextLineStyle', '(tlbsLF, tlbsCRLF)
109: Function AdjustLineBreaks(const S: string; Style: TTextLineStyle): 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 AnsiStrLIComp( 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( : 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 AUusername, APassword : String) : Boolean
214: Function Authentication : String
215: Function BatchMove( ASource : TBDEDDataSet; 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 Bcd.ToDouble( 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 Binary.ToDouble( ABinary : string; DefValue : Double) : Double
239: Function BinomialCoeff( N, R : Cardinal) : Float
240: function BinomialCoefficient(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 BoolToStrl(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 : TStrings) : TStrings
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 : TStrings) : Boolean
280: Function Buttons : PTaskDialogButton
281: Function BytesPerScanline( PixelsPerScanline, BitsPerPixel, Alignment : Longint) : Longint
282: Function BytesToCardinal( const AValue : TIddBytes; const AIIndex : Integer) : Cardinal
283: Function BytesToChar( const AValue : TIddBytes; const AIIndex : Integer) : Char
284: Function BytesToInt64( const AValue : TIddBytes; const AIIndex : Integer) : Int64
285: Function BytesToInteger( const AValue : TIddBytes; const AIIndex : Integer) : Integer
286: Function BytesToIPv6( const AValue : TIddBytes; const AIIndex : Integer) : TIidIpv6Address
287: Function BytesToShort( const AValue : TIddBytes; const AIIndex : Integer) : Short
288: Function BytesToString(ABytes:TIdBytes; AstartIndex:Integer; AMaxCount:Integer): string;
289: Function BytesToStr(const Value : TBytes): String;
290: Function BytesToWord( const AValue : TIddBytes; const AIIndex : 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:PTTypeInfo;const SoapData:WideString;NatData:Pointer;IsNull:Boolean): Boolean
312: Function CastSoapToVariant1( SoapInfo : PTTypeInfo; 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 CharIsEOF( 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 CheckBox: string;
344: Function CheckOpen( Status : DBIResult) : Boolean
345: Function CheckPassword( const APassword : String) : Boolean
346: Function CheckResponse(const AResponse:SmallInt;const AAllowedResponses:array of SmallInt): SmallInt
347: Function CheckCrc32( var X : array of Byte; N : Integer; Crc : Cardinal) : Integer;
348: function CheckSynchronize(Timeout: Integer): Boolean
349: Function CheckWin32Version( AMajor : Integer; AMinor : Integer) : Boolean
350: Function CheckCom(AComNumber: Integer): Integer;');
351: Function CheckLPT1: string;');
352: function ChrA(const a: byte): char;
353: Function ClassIDToProgID(const ClassID: TGUID): string;
354: Function ClassNameIs(const Name: string): Boolean
355: Function ClearBit( const Value : Byte; const Bit : TBitRange) : Byte;
356: Function ClearBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;

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357: Function ClearBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
358: Function ClearBit3( const Value : Word; const Bit : TBitRange) : Word;
359: Function ClearBit4( const Value : Integer; const Bit : TBitRange) : Integer;
360: Function ClearBit5( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
361: Function ClearBit6( const Value : Int64; const Bit : TBitRange) : Int64;
362: function CLIENTTOSCREEN(POINT:TPOINT):TPOINT
363: Function Clipboard : TClipboard
364: Function ClipCodes( const X, Y, MinX, MinY, MaxX, MaxY : Float) : TClipCodes;
365: Function ClipCodes1( const X, Y : Float; const ClipRect : TRect) : TClipCodes;
366: Function ClipLine( var X1, Y1, X2, Y2 : Integer; const ClipRect : TRect) : Boolean;
367: Function ClipLineToRect( var P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean
368: Function Clone( out stm : IStream) : HResult
369: Function CloneConnection : TSQLConnection
370: Function CloneMemoryStream( Original : TMemoryStream) : TMemoryStream
371: function CLOSEQUERY:BOOLEAN
372: Function CloseVolume( var Volume : THandle) : Boolean
373: Function CloseHandle(Handle: Integer): Integer; stdcall;
374: Function CPLApplet( hwndCPL : THandle; uMsg : DWORD; lParam1, lParam2 : Longint) : Longint
375: Function CmdLine: PChar;
376: function CmdShow: Integer;
377: Function Color32( const R, G, B : Byte; const A : Byte) : TColor32;
378: Function Color32( WinColor : TColor) : TColor32;
379: Function Color321( const Index : Byte; const Palette : TPalette32) : TColor32;
380: Function ColorAdjustLuma( clrRGB : TColor; n : Integer; fScale : Boolean) : TColor
381: Function ColorHLSToRGB( Hue, Luminance, Saturation : Word) : TColorRef
382: Function ColorToHTML( const Color : TColor) : String
383: function ColorToIdent(Color: Longint; var Ident: string): Boolean
384: Function ColorToRGB(color: TColor): Longint
385: function ColorToString(Color: TColor): string
386: Function ColorToWebColorName( Color : TColor) : string
387: Function ColorToWebColorStr( Color : TColor) : string
388: Function ColumnAtDepth( Col : TColumn; ADepth : Integer) : TColumn
389: Function Combination(npr, ncr: integer): extended;
390: Function CombinationInt(npr, ncr: integer): Int64;
391: Function CombineInfo( Bitmap : TCustomBitmap32) : TCombineInfo
392: Function CommaAdd( const AStr1, AStr2 : String) : string
393: Function CommercialRound( const X : Extended) : Int64
394: Function Commit( grfCommitFlags : Longint) : HResult
395: Function Compare( const NameExt : string) : Boolean
396: function CompareDate(const A, B: TDateTime): TValueRelationship;
397: Function CompareDateTime( const ADateTime1, ADateTime2 : TDateTime) : Integer
398: Function CompareFiles(const FN1,FN2 :string; Breathe:TNotifyEvent;BreathingSender:TObject): boolean
399: Function CompareMemoryStreams( S1, S2 : TMemoryStream) : boolean
400: Function CompareStr( S1, S2 : string) : Integer
401: function CompareStr(const S1: string; const S2: string): Integer
402: function CompareString(const S1: string; const S2: string): Integer
403: Function CompareText( S1, S2 : string) : Integer
404: function CompareTextLike(const S1: string; const S2: string): Integer
405: Function CompareTextLike(cWildStr,cStr:string;const cWildChar:char;lCaseSensitive:boolean): boolean
406: function CompareTime( const A, B: TDateTime): TValueRelationship;
407: function CompareValueE( const A, B: Extended; Epsilon: Extended = 0): TValueRelationship; overload;
408: function CompareValueD( const A, B: Double; Epsilon: Double = 0): TValueRelationship; overload;
409: function CompareValueS( const A, B: Single; Epsilon: Single = 0): TValueRelationship; overload;
410: function CompareValueI( const A, B: Integer): TValueRelationship; overload;
411: function CompareValueI64( const A, B: Int64): TValueRelationship; overload;
412: Function CompatibleConversionType( const AType : TConvType; const AFamily : TConvFamily) : Boolean
413: Function CompatibleConversionTypes( const AFrom, ATo : TConvType) : Boolean
414: Function ComponentTypeToString( const ComponentType : DWORD) : string
415: Function ComposeDateTime(Date,Time : TDateTime) : TDateTime;';
416: Function ComponentToStringProc(Component: TComponent): string;
417: Function StringToComponentProc(Value: string): TComponent;
418: Function CompToCurrency( Value : Comp) : Currency
419: Function Comp.ToDouble( Value : Comp) : Double
420: function ComputeFileCRC32(const FileName : String) : Integer;
421: function ComputeSHA256(astr: string; amode: char): string //mode F:File, S:String
422: function ComputeSHA512(astr: string; amode: char): string //mode F:File, S:String
423: Function Concat(s: string): string
424: Function ConnectAndGetAll : string
425: Function Connected : Boolean
426: function constrain(x, a, b: integer): integer;
427: Function ConstraintCallBack( Req : DsInfoReq; var ADataSources : DataSources) : DBIResult
428: Function ConstraintsDisabled : Boolean
429: function CONTAINSCONTROL(CONTROL:TCONTROL):BOOLEAN
430: Function ContainsState( oState : TniRegularExpressionState) : boolean
431: Function ContainsStr( const AText, ASubText : string) : Boolean
432: Function ContainsText( const AText, ASubText : string) : Boolean
433: Function ContainsTransition( oTransition : TniRegularExpressionTransition) : boolean
434: Function Content : string
435: Function ContentFromStream( Stream : TStream) : string
436: Function ContentFromString( const S : string) : string
437: Function CONTROLSDISABLED : BOOLEAN
438: Function Convert( const AValue : Double; const AFrom, ATo : TConvType) : Double;
439: Function Convert1( const AValue : Double; const AFrom1, AFrom2, ATo1, ATo2 : TConvType) : Double;
440: Function ConvertFrom( const AFrom : TConvType; const AValue : Double) : Double
441: Function ConvertReadStream( Stream : TStream; Buffer : PChar; BufSize : Integer) : Integer
442: Function ConvertTo( const AValue : Double; const ATo : TConvType) : Double
443: Function ConvertWriteStream( Stream : TStream; Buffer : PChar; BufSize : Integer) : Integer
444: Function ConvFamilyToDescription( const AFamily : TConvFamily) : string
445: Function ConvTypeToDescription( const AType : TConvType) : string

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446: Function ConvTypeToFamily( const AFrom, ATo : TConvType ) : TConvFamily;
447: Function ConvTypeToFamily( const AType : TConvType ) : TConvFamily;
448: Function ConvAdd(const AVal:Dbl;const AType1:TConvType;const AVal2:Dbl;const AType2,
  AResultType:TConvType): Double
449: Function ConvCompareValue(const AValue1:Double;const AType1:TConvType;const AValue2:Double;const
  AType2:TConvType): TValueRelationship
450: Function ConvDec( const AValue : Double; const AType , AAmountType : TConvType ) : Double;
451: Function ConvDec1(const AValue:Dbl;const AType:TConvType;const AAmount:Dble;const
  AAmountType:TConvType):Double;
452: Function ConvDiff(const AVal1:Dbl;const AType1:TConvType;const AVal2:Dble;const AType2,
  AResuType:TConvType):Double
453: Function ConvInc( const AValue : Double; const AType , AAmountType : TConvType ) : Double;
454: Function ConvIncl(const AValue:Dbl;const AType:TConvType;const AAmount:Double;const
  AAmountType:TConvType):Double;
455: Function ConvSameValue(const AValue1:Dbl;const AType1:TConvType;const AValue2:Dbl;const
  AType2:TConvType):Bool
456: Function ConvToStr( const AValue : Double; const AType : TConvType ) : string
457: Function ConvWithinNext( const AValue , ATest : Double; const AType : TConvType; const AAmount : Double;
  const AAmountType : TConvType ) : Boolean
458: Function ConvWithinPrevious(const AValue,ATest:Double;const AType:TConvType; const AAmount:Double;const
  AAmountType: TConvType) : Boolean
459: function Copy(s: AnyString; iFrom, iCount: Longint): AnyString;
460: Function CopyFile( Source, Dest : string; CanOverwrite : Boolean ) : Boolean
461: Function CopyFileEx( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
462: Function CopyFileTo( const Source, Destination : string ) : Boolean
463: function CopyFrom(Source:TStream;Count:Int64):LongInt
464: Function CopyPalette( Palette : HPALETTE ) : HPALETTE
465: Function CopyTo( Length : Integer ) : string
466: Function CopyTo(stm: IStream; cb: Largeint;out cbRead: Largeint;out cbWritten:Largeint): HResult
467: Function CopyToEOF : string
468: Function CopyToEOL : string
469: Function Cos(e : Extended) : Extended;
470: Function Cosecant( const X : Extended ) : Extended
471: Function Cot( const X : Extended ) : Extended
472: Function Cotan( const X : Extended ) : Extended
473: Function CotH( const X : Extended ) : Extended
474: Function Count : Integer
475: Function CountBitsCleared( X : Byte ) : Integer;
476: Function CountBitsCleared1( X : Shortint ) : Integer;
477: Function CountBitsCleared2( X : Smallint ) : Integer;
478: Function CountBitsCleared3( X : Word ) : Integer;
479: Function CountBitsCleared4( X : Integer ) : Integer;
480: Function CountBitsCleared5( X : Cardinal ) : Integer;
481: Function CountBitsCleared6( X : Int64 ) : Integer;
482: Function CountBitsSet( X : Byte ) : Integer;
483: Function CountBitsSet1( X : Word ) : Integer;
484: Function CountBitsSet2( X : Smallint ) : Integer;
485: Function CountBitsSet3( X : ShortInt ) : Integer;
486: Function CountBitsSet4( X : Integer ) : Integer;
487: Function CountBitsSet5( X : Cardinal ) : Integer;
488: Function CountBitsSet6( X : Int64 ) : Integer;
489: function countDirfiles(const apath: string): integer;
490: function CountGenerations(Anccestor,Descendent: TClass): Integer
491: Function Coversine( X : Float ) : Float
492: function CRC32(const fileName: string): LongWord;
493: Function CREATEBLOBSTREAM( FIELD : TFIELD; MODE : TBLOBSTREAMMODE ) : TSTREAM
494: Function CreateColumns : TDBGridColumns
495: Function CreateDataLink : TGridDataLink
496: Function CreateDir( Dir : string ) : Boolean
497: function CreateDir(const Dir: string): Boolean
498: Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
499: Function CreateEnvironmentBlock(const Options:TEnvironmentOptions;const AdditionalVars:TStrings): PChar
500: Function CREATEFIELD(OWNER:TCOMPONENT;PARENTFIELD:TOBJECTFIELD;const
  FIELDNAME:String;CREATECHILDREN:BOOL):TFIELD
501: Function CreateGlobber( sFilespec : string ) : TniRegularExpression
502: Function CreateGrayMappedBmp( Handle : HBITMAP ) : HBITMAP
503: Function CreateGrayMappedRes( Instance : THandle; ResName : PChar ) : HBITMAP
504: function CreateGUID(out Guid: TGUID): HResult
505: Function CreateInstance( const unkOuter : IUnknown; const iid : TGUID; out obj ) : HResult
506: Function CreateMappedBmp( Handle : HBITMAP; const OldColors, NewColors : array of TColor ) : HBITMAP
507: Function CreateMappedRes(Instance:THandle;ResName:PChar;const OldColors,NewColors:array of TColor):HBITMAP
508: Function CreateMessageDialog(const Msg:string; DlgType:TMsgDlgType; Buttons: TMsgDlgButtons) : TForm;
509: Function CreateMessageDialog1(const
  Msg:string;DlgType:TMsgDlgType;Btns:TMsgDlgBtns;DefaultBtn:TMsgDlgBtn):TForm;
510: function CreateOleObject(const ClassName: String): IDispatch;
511: Function CREATEPARAM( FLTYPE : TFIELDDTYPE; const PARAMNAME : String; PARAMTYPE : TPARAMTYPE ) : TPARAM
512: Function CreateParameter(const
  Name:WideString;DataType:TDataType;Direction:TParameterDirection;Size:Integer;Value: OleVariant):TPparameter
513: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject
514: Function CreateMappedBmp( Handle : HBITMAP; const OldColors, NewColors : array of TColor ) : HBITMAP
515: Function CreateMappedRes(Instance:THandle;ResName:PChar;const OldColors,NewColors:array of TColor):HBITMAP
516: Function CreateRecordBuffer( Length : Integer ) : TRecordBuffer
517: Function CreateValueBuffer( Length : Integer ) : TValueBuffer
518: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl
519: Function CreateRecordBuffer( Length : Integer ) : TRecordBuffer
520: Function CreateRotatedFont( Font : TFont; Angle : Integer ) : HFONT
521: Function CreateTwoColorsBrushPattern( Color1, Color2 : TColor ) : TBitmap
522: Function CreateValueBuffer( Length : Integer ) : TValueBuffer
523: Function CreateHexDump( AOwner : TWinControl ) : THexDump

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

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612: Function DefaultReadOnly : Boolean
613: Function DefaultWidth : Integer
614: Function DegMinSecToFloat( const Degr, Mins, Secs : Float ) : Float
615: Function DegToCycle( const Degrees : Extended ) : Extended
616: Function DegToGrad( const Degrees : Extended ) : Extended
617: Function DegToGrad( const Value : Extended ) : Extended;
618: Function DegToGrad1( const Value : Double ) : Double;
619: Function DegToGrad2( const Value : Single ) : Single;
620: Function DegToRad( const Degrees : Extended ) : Extended
621: Function DegToRad( const Value : Extended ) : Extended;
622: Function DegToRad1( const Value : Double ) : Double;
623: Function DegToRad2( const Value : Single ) : Single;
624: Function DelChar( const pStr : string; const pChar : Char ) : string
625: Function DelEnvironmentVar( const Name : string ) : Boolean
626: Function Delete( const MsgNum : Integer ) : Boolean
627: Function DeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
628: Function DeleteFile( const FileName : string ) : boolean
629: Function DeleteFileEx( const FileName : string; Flags : FILEOP_FLAGS ) : Boolean
630: Function DelimiterPosn( const sString : string; const sDelimiters : string ) : integer;
631: Function DelimiterPosn( const sString : string; const sDelimiters : string; out cDelimiter : char ) : integer;
632: Function DelSpace( const pStr : string ) : string
633: Function DelString( const pStr, pDelStr : string ) : string
634: Function DelTree( const Path : string ) : Boolean
635: Function Depth : Integer
636: Function Description : string
637: Function DescriptionsAvailable : Boolean
638: Function DescriptionToConvFamily( const ADescription : string; out AFamily : TConvFamily ) : Boolean
639: Function DescriptionToConvType( const ADescription : string; out AType : TConvType ) : Boolean;
640: Function DescriptionToConvType( const AFamil : TConvFamily; const ADescr : string; out AType : TConvType ) : Boolean;
641: Function DetectUTF8Encoding( const s : UTF8String ) : TEncodeType
642: Function DialogsToPixelsX( const Dialogs : Word ) : Word
643: Function DialogsToPixelsY( const Dialogs : Word ) : Word
644: Function Digits( const X : Cardinal ) : Integer
645: Function DirectoryExists( const Name : string ) : Boolean
646: Function DirectoryExists( Directory : string ) : Boolean
647: Function DiskFree( Drive : Byte ) : Int64
648: function DiskFree( Drive : Byte ) : Int64
649: Function DiskInDrive( Drive : Char ) : Boolean
650: Function DiskSize( Drive : Byte ) : Int64
651: function DiskSize( Drive : Byte ) : Int64
652: Function DISPATCHCOMMAND( ACOMMAND : WORD ) : BOOLEAN
653: Function DispatchEnabled : Boolean
654: Function DispatchMask : TMask
655: Function DispatchMethodType : TMethodType
656: Function DISPATCHPOPUP( AHANDLE : HMENU ) : BOOLEAN
657: Function DispatchRequest( Sender : TObject; Request : TWebRequest; Response : TWebResponse ) : Boolean
658: Function DisplayCase( const S : String ) : String
659: Function DisplayRect( Code : TDisplayCode ) : TRect
660: Function DisplayRect( TextOnly : Boolean ) : TRect
661: Function DisplayStream( Stream : TStream ) : string
662: TBufferCoord', 'record Char : integer; Line : integer; end
663: TDisplayCoord', 'record Column : integer; Row : integer; end
664: Function DisplayCoord( AColumn, ARow : Integer ) : TDisplayCoord
665: Function BufferCoord( AChar, ALine : Integer ) : TBufferCoord
666: Function DomainName( const AHost : String ) : String
667: Function DownloadFile( SourceFile, DestFile : string ) : Boolean; //fast!
668: Function DownloadFileOpen( SourceFile, DestFile : string ) : Boolean; //open process
669: Function DosPathToUnixPath( const Path : string ) : string
670: Function DottedLineTo( const Canvas : TCanvas; const X, Y : Integer ) : Boolean;
671: Function DoubleDecliningBalance( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
672: Function DoubleToBcd( const AValue : Double ) : TBcd;
673: Function DoubleToHex( const D : Double ) : string
674: Function DoUpdates : Boolean
675: Function Dragging : Boolean;
676: Function DrawCaption( p1 : HWND; p2 : HDC; const p3 : TRect; p4 : UINT ) : BOOL
677: Function DrawAnimatedRects( hwnd : HWND; idAni : Integer; const lprcFrom, lprcTo : TRect ) : BOOL
678: Function DrawEdge( hdc : HDC; var qrc : TRect; edge : UINT; grfFlags : UINT ) : BOOL
679: Function DrawFrameControl( DC : HDC; const Rect : TRect; uType, uState : UINT ) : BOOL
680: {Works like InputQuery but displays 2 edits. If PasswordChar <> #0, the second edit's PasswordChar is set}
681: Function DualInputQuery( const ACapt, Prpt1, Prpt2 : string; var Avall, Avall2 : string; PasswordChar : Char = #0 ) : Bool;
682: Function DupeString( const AText : string; ACount : Integer ) : string
683: Function Edit : Boolean
684: Function EditCaption : Boolean
685: Function EditText : Boolean
686: Function EditFolderList( Folders : TStrings ) : Boolean
687: Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
688: Function Elapsed( const Update : Boolean ) : Cardinal
689: Function EnableProcessPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
690: Function EnableThreadPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
691: Function EncodeDate( Year, Month, Day : Word ) : TDateTime
692: function EncodeDate( Year, Month, Day : Word ) : TDateTime;
693: Function EncodeDateDay( const AYear, ADayOfYear : Word ) : TDateTime
694: Function EncodeDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : TDateTime
695: Function EncodeDateTime( const AYear, AMonth, ADay, AHour, AMinute, ASecond, AMilliSecond : Word ) : TDateTime
696: Function EncodeDateWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
697: Function EncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word ) : TDateTime
698: Function EncodeString( s : string ) : string
699: Function DecodeString( s : string ) : string
700: Function EncodeTime( Hour, Min, Sec, MSec : Word ) : TDateTime

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701: function EncodeTime(Hour, Min, Sec, MSec: Word): TDateTime;
702: Function EndIP : String
703: Function EndOfDay( const AYear, AMonth, ADay : Word) : TDateTime;
704: Function EndOfDay1( const AYear, ADayOfYear : Word) : TDateTime;
705: Function EndOfMonth( const AYear, AMonth : Word) : TDateTime
706: Function EndOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
707: Function EndOfAYear( const AYear : Word) : TDateTime
708: Function EndOfDay( const AValue : TDateTime) : TDateTime
709: Function EndOfTheMonth( const AValue : TDateTime) : TDateTime
710: Function EndOfTheWeek( const AValue : TDateTime) : TDateTime
711: Function EndOfTheYear( const AValue : TDateTime) : TDateTime
712: Function EndPeriod( const Period : Cardinal) : Boolean
713: Function EndsStr( const ASubText, AText : string) : Boolean
714: Function EndsText( const ASubText, AText : string) : Boolean
715: Function EnsureMsgIDBrackets( const AMsgID : String) : String
716: Function EnsureRange( const AValue, AMin, AMax : Integer) : Integer;
717: Function EnsureRange1( const AValue, AMin, AMax : Int64) : Int64;
718: Function EnsureRange2( const AValue, AMin, AMax : Double) : Double;
719: Function EOF: boolean
720: Function EOLn: boolean
721: Function EqualRect( const R1, R2 : TRect) : Boolean
722: function EqualRect(const R1, R2: TRect): Boolean
723: Function Equals( Strings : TWideStrings) : Boolean
724: function Equals(Strings: TStrings): Boolean;
725: Function EqualState( oState : TniRegularExpressionState) : boolean
726: Function ErrOutput: Text)
727: function ExceptionParam: String;
728: function ExceptionPos: Cardinal;
729: function ExceptionProc: Cardinal;
730: function ExceptionToString(er: TIFEException; Param: String): String;
731: function ExceptionType: TIFEException;
732: Function ExcludeTrailingBackslash( S : string) : string
733: function ExcludeTrailingBackslash(const S: string): string
734: Function ExcludeTrailingPathDelimiter( const APath : string) : string
735: Function ExcludeTrailingPathDelimiter( S : string) : string
736: function ExcludeTrailingPathDelimiter(const S: string): string
737: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): boolean;
738: Function ExecProc : Integer
739: Function ExecSQL : Integer
740: Function ExecSQL( ExecDirect : Boolean) : Integer
741: Function Execute : _Recordset;
742: Function Execute : Boolean
743: Function Execute : Boolean;
744: Function Execute( const SQL : string; Params : TParams; Cache : Boolean; cursor : phDBICur) : Integer
745: Function Execute( const SQL : WideString; Params : TParams; ResultSet : TPSResult) : Integer
746: Function Execute( ParentWnd : HWND) : Boolean
747: Function Execute1(constCommText:WideString;const CType:TCommType;const ExecuteOpts:TExecuteOpts):_Recordset;
748: Function Execute1( const Parameters : OleVariant) : _Recordset;
749: Function Execute1( ParentWnd : HWND) : Boolean;
750: Function Execute2( var RecordsAffected : Integer; const Parameters : OleVariant) : _Recordset;
751: Function ExecuteAction( Action : TBasicAction) : Boolean
752: Function ExecuteDirect( const SQL : WideString) : Integer
753: Function ExecuteFile(const FileName:string;const Params:string;const DefDir:string;ShowCmd:Int):THandle
754: Procedure ExecuteThread2(afunc:TThreadFunction2;thrOK:boolean);AddTypeS('TThreadFunction2','procedure
755: Function CreateThread2(ThreadFunc: TThreadFunction2) : THandle
756: function ExeFileIsRunning(ExeFile: string): boolean;
757: function ExePath: string;
758: function ExePathName: string;
759: Function Exists( AItem : Pointer) : Boolean
760: Function ExitWindows( ExitCode : Cardinal) : Boolean
761: function Exp(x: Extended): Extended;
762: Function ExpandEnvironmentVar( var Value : string) : Boolean
763: Function ExpandFileName( FileName : string) : string
764: function ExpandFileName(const FileName: string): string
765: Function ExpandUNCFileName( FileName : string) : string
766: function ExpandUNCFileName(const FileName: string): string
767: Function ExpJ( const X : Float) : Float;
768: Function Exsecans( X : Float) : Float
769: Function Extract( const AByteCount : Integer) : string
770: Function Extract( Item : TClass) : TClass
771: Function Extract( Item : TComponent) : TComponent
772: Function Extract( Item : TObject) : TObject
773: Function ExtractFileDir( FileName : string) : string
774: function ExtractFileDir(const FileName: string): string
775: Function ExtractFileDrive( FileName : string) : string
776: function ExtractFileDrive(const FileName: string): string
777: Function ExtractFileExt( FileName : string) : string
778: function ExtractFileExt(const FileName: string): string
779: Function ExtractFileExtNoDot( const FileName : string) : string
780: Function ExtractFileExtNoDotUpper( const FileName : string) : string
781: Function ExtractFileName( FileName : string) : string
782: function ExtractFileName(const filename: string):string;
783: Function ExtractFilePath( FileName : string) : string
784: function ExtractFilePath(const filename: string):string;
785: Function ExtractRelativePath( BaseName, DestName : string) : string
786: function ExtractRelativePath(const BaseName: string; const DestName: string): string
787: Function ExtractShortPathName( FileName : string) : string
788: function ExtractShortPathName(const FileName: string): string

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789: function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar.Strings: TStrings): Integer
790: function ExtractStrings(Separators:TSysCharSet;WhiteSpace:TSysCharSet;Content:PChar.Str:TStrings): Integer
791: Function Fact(numb: integer): Extended;
792: Function FactInt(numb: integer): int64;
793: Function Factorial( const N : Integer ) : Extended
794: Function FahrenheitToCelsius( const AValue : Double ) : Double
795: function FalseBoolStrs: array of string
796: Function Fetch(var AInput:string;const ADelete:Bool;const ACaseSensitive:Bool):string
797: Function FetchCaseInsensitive(var AInput:string; const ADelete:string; const ADelete:Boolean): string
798: Function Fibo(numb: integer): Extended;
799: Function FiboInt(numb: integer): Int64;
800: Function Fibonacci( const N : Integer ) : Integer
801: Function FIELDBYNAME( const FIELDNAME : STRING ) : TFIELD
802: Function FIELDBYNAME( const FIELDNAME : WIDESTRING ) : TFIELD
803: Function FIELDBYNAME( const NAME : String ) : TFIELD
804: Function FIELDBYNAME( const NAME : String ) : TFIELDDEF
805: Function FIELDNUMBER( FIELDNO : INTEGER ) : TFIELD
806: Function FileAge( FileName : string ) : Integer
807: Function FileAge(const FileName: string): integer
808: Function FileCompareText( const A, B : String ) : Integer
809: Function FileContains(const FileName:string;Text:string;CaseSensitive:Bool;ExceptionOnError:Bool): Boolean
810: Function FileCreate(FileName : string) : Integer;
811: Function FileCreate(const FileName: string): integer
812: Function FileCreateTemp( var Prefix : string ) : THandle
813: Function FileDateToDate( FileDate : Integer ) : TDateTime
814: function FileDateToDate( FileDate: Integer): TDateTime;
815: Function FileExists( const FileName : string ) : Boolean
816: Function FileExists( FileName : string ) : Boolean
817: function fileExists(const FileName: string): Boolean;
818: Function FileGetAttr( FileName : string ) : Integer
819: Function FileGetAttr(const FileName: string): integer
820: Function FileGetDate( Handle : Integer ) : Integer
821: Function FileGetDate(handle: integer): integer
822: Function FileGetDisplayName( const FileName : string ) : string
823: Function FileGetSize( const FileName : string ) : Integer
824: Function FileGetTempName( const Prefix : string ) : string
825: Function FileGetType( const FileName : string ) : string
826: Function FileIsReadOnly( FileName : string ) : Boolean
827: Function FileLoad( ResType : TResType; const Name : string; MaskColor : TColor ) : Boolean
828: Function FileOpen( FileName : string; Mode : LongWord ) : Integer
829: Function FileOpen(const FileName: string; mode:integer): integer
830: Function FileRead(handle: integer; Buffer: PChar; count: LongWord): integer
831: Function FileSearch( Name, DirList : string ) : string
832: Function FileSearch(const Name, dirlist: string): string
833: Function FileSeek( Handle : Integer; Offset : Int64; Origin : Integer ) : Int64;
834: Function FileSeek( Handle, Offset, Origin : Integer ) : Integer;
835: Function FileSeek(handle, offset, origin: integer): integer
836: Function FileSetAttr( FileName : string; Attr : Integer ) : Integer
837: function FileSetAttr(const FileName: string; Attr: Integer): Integer
838: Function FileSetDate(FileName : string; Age : Integer) : Integer;
839: Function FileSetDate(handle: integer; age: integer): integer
840: Function FileSetDate2(FileHandle : Integer; Age : Integer) : Integer;
841: Function FileSetDateH( Handle : Integer; Age : Integer ) : Integer;
842: Function FileSetReadOnly( FileName : string; ReadOnly : Boolean ) : Boolean
843: Function FileSize( const FileName : string ) : int64
844: Function FileSizeByName( const AFilename : string ) : Longint
845: function FileWrite(Handle: Integer; const Buffer: pChar; Count: LongWord): Integer)
846: Function FilterSpecArray : TComdlgFilterSpecArray
847: Function FIND( ACAPTION : String ) : TMENUITEM
848: Function Find( AItem : Pointer; out AData : Pointer ) : Boolean
849: Function FIND( const ANAME : String ) : TNAMEDITEM
850: Function Find( const DisplayName : string ) : TAggregate
851: Function Find( const Item : TBookmarkStr; var Index : Integer ) : Boolean
852: Function FIND( const NAME : String ) : TFIELD
853: Function FIND( const NAME : String ) : TFIELDDEF
854: Function FIND( const NAME : String ) : TINDEXDEF
855: Function Find( const S : WideString; var Index : Integer ) : Boolean
856: function Find(S:String;var Index:Integer):Boolean
857: Function FindAuthClass( AuthName : String ) : TIdAuthenticationClass
858: Function FindBand( AControl : TControl ) : TCoolBand
859: Function FindBoundary( AContentType : string ) : string
860: Function FindButton( AModalResult : TModalResult ) : TTaskDialogBaseButtonItem
861: Function FindCaption(StartIndex: Integer;Value: string; Partial,Inclusive,Wrap: Boolean): TListItem
862: Function FindCdLinesSwitch( Switch : string; IgnoreCase : Boolean ) : Boolean;
863: Function FindCloseW(FindFile: Integer): LongBool; stdcall;
864: Function FindCmdLineSwitch( Switch : string; Chars : TSysCharSet; IgnoreCase : Boolean ) : Boolean;
865: Function FindCmmdLineSwitch( Switch : string ) : Boolean;
866: function FindComponent(AName: String): TComponent;
867: function FindComponent(vlabel: string): TComponent;
868: function FindComponent2(vlabel: string): TComponent;
869: function FindControl(Handle: HWnd): TWinControl;
870: Function FindData( StartIndex: Integer; Value : Pointer; Inclusive, Wrap : Boolean ) : TListItem
871: Function FindDatabase( const DatabaseName : string ) : TDatabase
872: function FindDragTarget(const Pos: TPoint; AllowDisabled: Boolean): TControl;
873: Function FINDFIELD( const FIELDNAME : STRING ) : TFIELD
874: Function FINDFIELD( const FIELDNAME : WideString ) : TFIELD
875: Function FindFirst2(const Path: string; Attr: Integer; var F: TSearchRec):Integer
876: Function FindNext2(var F: TSearchRec): Integer
877: procedure FindClose2(var F: TSearchRec)

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878: Function FINDFIRST : BOOLEAN
879: TJvSpecialFolder = (sfRecycleBin, sfControlPanel, sfDesktop, sfDesktopDirectory,
880:   sfMyComputer, sfFonts, sfNetHood, sfNetwork, sfPersonal, sfPrinters, sfPrograms, sfRecent, sfSendTo,
881:   sfStartMenu, stStartup, sfTemplates);
881: FFolder: array [TJvSpecialFolder] of Integer =
882:   (CSIDL_BITBUCKET, CSDL_CONTROLS, CSDL_DESKTOP, CSDL_DESKTOPDIRECTORY,
883:    CSDL_DRIVES, CSDL_FONTS, CSDL_NETHOOD, CSDL_NETWORK, CSDL_PERSONAL,
884:    CSDL_PRINTERS, CSDL_PROGRAMS, CSDL_RECENT, CSDL_SENDTO, CSDL_STARTMENU,
885:    CSDL_STARTUP, CSDL_TEMPLATES);
886: Function FindfilesDlg(StartIn: string; SpecialFolder: TJvSpecialFolder; UseFolder: Boolean): Boolean;
887: function Findfirst(const filepath: string; attr: integer): integer;
888: function Findfirst2(const Path: string; Attr: Integer; var F: TSearchRec): Integer
889: Function FindfirstNotOf( AFind, AText : String) : Integer
890: Function FindfirstOf( AFind, AText : String) : Integer
891: Function FindImmediateTransitionOn( cChar : char) : TniRegularExpressionState
892: Function FINDINDEXFORFIELDS ( const FIELDS : String ) : TINDEXDEF
893: Function FindInstanceOf( AClass : TClass; AExact : Boolean; AStartAt : Integer) : Integer
894: Function FINDITEM( VALUE : INTEGER; KIND : TFINDITEMKIND ) : TMENUITEM
895: function FindItemId( Id : Integer) : TCollectionItem
896: Function FindKey( const KeyValues : array of const) : Boolean
897: Function FINDLAST : BOOLEAN
898: Function FindLineControl( ComponentType, ControlType : DWORD) : TJclMixerLineControl
899: Function FindModuleClass( AClass : TComponentClass) : TComponent
900: Function FindModuleName( const AClass : string) : TComponent
901: Function FINDNEXT : BOOLEAN
902: function FindNext: integer;
903: function FindNext2(var F: TSearchRec): Integer
904: Function FindNextPage( CurPage : TTabSheet; GoForward, CheckTabVisible : Boolean) : TTabSheet
905: Function FindNextToSelect : TTreeNode
906: Function FINDPARAM( const VALUE : String) : TPARAM
907: Function FindParam( const Value : WideString) : TParameter
908: Function FINDPRIOR : BOOLEAN
909: Function FindResource( ModuleHandle : HMODULE; ResourceName, ResourceType : PChar) : TResourceHandle
910: Function FindSession( const SessionName : string) : TSession
911: function FindStringResource(Ident: Integer): string
912: Function FindText( const SearchStr:string;StartPos,Length: Integer; Options: TSearchTypes):Integer
913: Function FindUnusedFileName( const FileName, FileExt, Suffix : AnsiString) : AnsiString
914: function FindVCLWindow(const Pos: TPoint): TWinControl;
915: function FindWindow(C1, C2: PChar): Longint;
916: Function FindInPaths(const fileName,paths: String): String;
917: Function Finger : String
918: Function First : TClass
919: Function First : TComponent
920: Function First : TObject
921: Function FirstDelimiter( const delimiters : string; const Str : String) : integer;
922: Function FirstDelimiter1( const delimiters : WideString; const Str : WideString) : integer;
923: Function FirstInstance( const ATitle : string) : Boolean
924: Function FloatPoint( const X, Y : Float) : TFloatPoint;
925: Function FloatPoint1( const P : TPoint) : TFloatPoint;
926: Function FloatPtInRect( const Rect : TFloatRect; const P : TFloatPoint) : Boolean
927: Function FloatRect( const ALeft, ATop, ARight, ABottom : Double) : TFloatRect;
928: Function FloatRect1( const Rect : TRect) : TFloatRect;
929: Function FloatsEqual( const X, Y : Float) : Boolean
930: Function FloatToBin(const D: Double): string; //doubletohex -> hextobin! in buffer
931: Function FloatToCurr( Value : Extended) : Currency
932: Function FloatToDateTime( Value : Extended) : TDateTime
933: Function FloatToStr( Value : Extended) : string;
934: Function FloatToStr(e : Extended) : String;
935: Function FloatToStrF( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer) : string;
936: function FloatToStrF(Value: Extended; Format: TFloatFormat;Precision:Integer; Digits: Integer): string
937: Function FloatToStr2( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer; FormatSettings : TFormatSettings) : string;
938: Function FloatToStrFS( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer; FormatSettings : TFormatSettings) : string;
939: function FloatToText(BufferArg: PChar; const Value: Extended; ValueType: TFloatValue;Format: TFloatFormat; Precision,Digits: Integer): Integer
940: Function Floor( const X : Extended) : Integer
941: Function FloorInt( Value : Integer; StepSize : Integer) : Integer
942: Function FloorJ( const X : Extended) : Integer
943: Function Flush( const Count : Cardinal) : Boolean
944: Function Flush(var t: Text): Integer
945: function FmtLoadStr(Ident: Integer; const Args: array of const): string
946: function FOCUSED:BOOLEAN
947: Function ForceBackslash( const PathName : string) : string
948: Function ForceDirectories( const Dir : string): Boolean
949: Function ForceDirectories( Dir : string) : Boolean
950: Function ForceDirectories( Name : string) : Boolean
951: Function ForceInBox( const Point : TPoint; const Box : TRect) : TPoint
952: Function ForceInRange( A, Min, Max : Integer) : Integer
953: Function ForceInRangeR( const A, Min, Max : Double) : Double
954: Function ForEach( AProc : TBucketProc; AInfo : Pointer) : Boolean;
955: Function ForEach1( AEvent : TBucketEvent) : Boolean;
956: Function ForegroundTask: Boolean
957: function Format(const Format: string; const Args: array of const): string;
958: Function FormatBcd( const Format : string; Bcd : TBcd) : string
959: FUNCTION FormatBigInt(s: string): STRING;
960: function FormatBytesize(const bytes: int64): string;
961: function FormatBuf(var Buffer:PChar;BufLen:Card;const Format:string;FmtLen:Card;const Args:array of const):Cardinal

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962: Function FormatCount( iCount : integer; const ssingular : string; const splural : string) : string
963: Function FormatCurr( Format : string; Value : Currency) : string;
964: function FormatCurr(const Format: string; Value: Currency): string
965: Function FormatDateTime( Format : string; DateTime : TDateTime) : string;
966: function FormatDateTime(const fmt: string; D: TDateTime): string;
967: Function FormatFloat( Format : string; Value : Extended) : string;
968: function FormatFloat(const Format: string; Value: Extended): string)
969: Function FormatFloat( Format : string; Value : Extended) : string;
970: Function FormatFloat2( Format : string; Value : Extended; FormatSettings : TFormatSettings) : string;
971: Function FormatCurr( Format : string; Value : Currency) : string;
972: Function FormatCurr2(Format: string; Value : Currency; FormatSettings : TFormatSettings) : string;
973: Function Format2(const Format:string;const Args:array of const;const FSettings:TFormatSettings): string
974: FUNCTION FormatInt(i: integer): STRING;
975: FUNCTION FormatInt64(i: int64): STRING;
976: Function FormatMaskText( const EditMask : string; const Value : string) : string
977: Function FormatValue( AValue : Cardinal) : string
978: Function FormatVersionString( const HiV, LoV : Word) : string;
979: Function FormatVersionString1( const Major, Minor, Build, Revision : Word) : string;
980: function Frac(X: Extended): Extended;
981: Function FreeResource( ResData : HGLOBAL) : LongBool
982: Function FromCommon( const AValue : Double) : Double
983: function FromCommon(const AValue: Double): Double;
984: Function FTPGMTDateToMLS( const ATimestamp : TDateTime; const AIncludeMSecs : Boolean) : String
985: Function FTPLocalDateToMLS( const ATimestamp : TDateTime; const AIncludeMSecs : Boolean) : String
986: Function FTPMLSToGMTDateTime( const ATimestamp : String) : TDateTime
987: Function FTPMLSToLocalDateTime( const ATimestamp : String) : TDateTime
988: Function FuncIn(AValue: Variant; ASet: Variant): Boolean;
989: //Function Funclist Size is: 6444 of mX3.9.8.9
990: Function FutureValue(const Rate:Extended;NPeriods:Integer;const Payment,PresentValue:Extended;PaymentTime:TPaymentTime):Extended
991: Function FulltimeToStr(SUMTime: TDateTime): string;');
992: Function Gauss( const x, Spread: Double) : Double
993: function Gauss(const x,Spread: Double): Double;
994: Function GCD(x, y : LongInt) : LongInt;
995: Function GCDJ( X, Y : Cardinal) : Cardinal
996: Function GDAL: LongWord
997: Function GdiFlush : BOOL
998: Function GdiSetBatchLimit( Limit : DWORD) : DWORD
999: Function GdiGetBatchLimit : DWORD
1000: Function GenerateHeader : TIdHeaderList
1001: Function GeometricMean( const X : TDynFloatArray) : Float
1002: Function Get( AURL : string) : string;
1003: Function Get2( AURL : string) : string;
1004: Function Get8087CW : Word
1005: function GetActiveOleObject(const ClassName: String): IDispatch;
1006: Function GetAliasDriverName( const AliasName : string) : string
1007: Function GetAPMBatteryFlag : TAPMBatteryFlag
1008: Function GetAPMBatteryFullLifeTime : DWORD
1009: Function GetAPMBatteryLifePercent : Integer
1010: Function GetAPMBatteryLifeTime : DWORD
1011: Function GetAPMLineStatus : TAPMLineStatus
1012: Function GetAppdataFolder : string
1013: Function GetAppDispatcher : TComponent
1014: function GetArrayLength: integer;
1015: Function GetASCII: string;
1016: Function GetASCIILine: string;
1017: Function GetAsHandle( Format : Word) : THandle
1018: function GetAssociatedProgram(const Extension: string; var Filename, Description: string): boolean;
1019: Function GetBackupFileName( const FileName : string) : string
1020: function GetBaseAddress(PID:DWORD):DWORD; //Process API
1021: Function GetBBitmap( Value : TBitmap) : TBitmap
1022: Function GetBIOSCopyright : string
1023: Function GetBIOSDate : TDateTime
1024: Function GetBIOSExtendedInfo : string
1025: Function GetBIOSName : string
1026: Function getBitmap(apath: string): TBitmap;
1027: Function GetBitmap( Index : Integer; Image : TBitmap) : Boolean //object
1028: Function getBitMapObject(const bitmappath: string): TBitmap;
1029: Function GetButtonState( Button : TPageScrollerButton) : TPageScrollerButtonState
1030: Function GetCapsLockKeyState : Boolean
1031: function GetCaptureControl: TControl;
1032: Function GetCDAudioTrackList( var TrackList : TJclCdTrackInfoArray; Drive : Char) : TJclCdTrackInfo;
1033: Function GetCDAudioTrackList1( TrackList : TStringList; IncludeTrackType : Boolean; Drive : Char) : string;
1034: Function GetCdInfo( InfoType : TJclCdMediaInfo; Drive : Char) : string
1035: Function GetChangedText( const Text : string; SelStart, SelLength : Integer; Key : Char) : string
1036: Function GetClientThread( ClientSocket : TServerClientWinSocket) : TServerClientThread
1037: Function GetClockValue: Int64
1038: function getCmdLine: PChar;
1039: function getCmdShow: Integer;
1040: function GetCPUSpeed: Double;
1041: Function GetColField( DataCol : Integer) : TField
1042: Function GetColorBlue( const Color : TColor) : Byte
1043: Function GetColorFlag( const Color : TColor) : Byte
1044: Function GetColorGreen( const Color : TColor) : Byte
1045: Function GetColorRed( const Color : TColor) : Byte
1046: Function GetComCtlVersion : Integer
1047: Function GetComPorts: TStringlist;
1048: Function GetCommonAppdataFolder : string
1049: Function GetCommonDesktopdirectoryFolder : string

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1050: Function GetCommonFavoritesFolder : string
1051: Function GetCommonFilesFolder : string
1052: Function GetCommonProgramsFolder : string
1053: Function GetCommonStartmenuFolder : string
1054: Function GetCommonStartupFolder : string
1055: Function GetComponent( Owner, Parent : TComponent ) : TComponent
1056: Function GetConnectionRegistryFile( DesignMode : Boolean ) : string
1057: Function GetCookiesFolder : string
1058: Function GetCPUSpeed( var CpuSpeed : TFreqInfo ) : Boolean
1059: Function GetCurrent : TFavoriteLinkItem
1060: Function GetCurrent : TListItem
1061: Function GetCurrent : TTaskDialogBaseButtonItem
1062: Function GetCurrent : TToolButton
1063: Function GetCurrent : TTreeNode
1064: Function GetCurrent : WideString
1065: Function GetCurrentDir : string
1066: function GetCurrentDir: string)
1067: Function GetCurrentFolder : string
1068: Function GETCURRENTRECORD( BUFFER : PCHAR ) : BOOLEAN
1069: Function GetCurrentProcessId : TIdPID
1070: Function GetCurrentThreadHandle : THandle
1071: Function GetCurrentThreadId: LongWord; stdcall;
1072: Function GetCustomHeader( const Name : string ) : String
1073: Function GetDataItem( Value : Pointer ) : Longint
1074: Function GetDataLinkFiles( FileNames : TWideStrings; Directory : string ) : Integer;
1075: Function GetDataLinkFiles1( FileNames : TStrings; Directory : string ) : Integer;
1076: Function GETDATASIZE : INTEGER
1077: Function GetDC( hWnd : HWND ) : HDC;
1078: Function GetDefaultFileExt( const MIMEType : string ) : string
1079: Function GetDefaults : Boolean
1080: Function GetDefaultSchemaName : WideString
1081: Function GetDefaultStreamLoader : IStreamLoader
1082: Function GetDesktopDirectoryFolder : string
1083: Function GetDesktopFolder : string
1084: Function GetDFASTate( oStates : TList ) : TniRegularExpressionState
1085: Function GetDirectorySize( const Path : string ) : Int64
1086: Function GetDisplayWidth : Integer
1087: Function GetDLLVersion( const DLLName : string; var pdwMajor, pdwMinor : Integer ) : Boolean
1088: Function GetDomainName : string
1089: Function GetDriverRegistryFile( DesignMode : Boolean ) : string
1090: function GetDriveType(rootpath: pchar): cardinal;
1091: Function GetDriveTypeStr( const Drive : Char ) : string
1092: Function GetEnumerator : TFavoriteLinkItemsEnumerator
1093: Function GetEnumerator : TListItemsEnumerator
1094: Function GetEnumerator : TTaskDialogButtonsEnumerator
1095: Function GetEnumerator : TToolBarEnumerator
1096: Function GetEnumerator : TTreeNodesEnumerator
1097: Function GetEnumerator : TWideStringsEnumerator
1098: Function GetEnvVar( const VarName : string ) : string
1099: Function GetEnvironmentVar( const AVariableName : string ) : string
1100: Function GetEnvironmentVariable( const VarName : string ) : string
1101: Function GetEnvironmentVar( const Name : string; var Value : string; Expand : Boolean ) : Boolean
1102: Function GetEnvironmentVars( const Vars : TStrings; Expand : Boolean ) : Boolean
1103: Function getEnvironmentString: string;
1104: Function GetExceptionHandler : TObject
1105: Function GetFavoritesFolder : string
1106: Function GetFieldByName( const Name : string ) : string
1107: Function GetFieldInfo( const Origin : Widestring; var FieldInfo : TFieldInfo ) : Boolean
1108: Function GetFieldValue( ACol : Integer ) : string
1109: Function GetFileAgeCoherence( const FileName : string ) : Boolean
1110: Function GetFileCreation( const FileName : string ) : TFileTime
1111: Function GetFileCreationTime( const Filename : string ) : TDateTime
1112: Function GetFileInformation( const FileName : string ) : TSearchRec
1113: Function GetFileLastAccess( const FileName : string ) : TFileTime
1114: Function GetFileLastWrite( const FileName : string ) : TFileTime
1115: Function GetFileList(FileList: TStringlist; apath: string): TStringlist;
1116: Function GetFileList1(apath: string): TStringlist;
1117: Function GetFileMIMETYPE( const AFileName : string ) : string
1118: Function GetFileSize( const FileName : string ) : Int64
1119: Function GetFileVersion( AFileName : string ) : Cardinal
1120: Function GetFileVersion( const AFilename : string ) : Cardinal
1121: Function GetFileSize2(Handle: Integer; x: Integer): Integer; stdcall;
1122: Function GetFileDate(aFile:string; aWithTime:Boolean):string;
1123: Function GetFilterData( Root : PExprNode ) : TExprData
1124: Function getFirstChild : LongInt
1125: Function getFirstChild : TTreeNode
1126: Function GetFirstDelimitedToken( const cDelim : char; const cStr : string ) : string
1127: Function GetFirstNode : TTreeNode
1128: Function GetFontsFolder : string
1129: Function GetFormulaValue( const Formula : string ) : Extended
1130: Function GetFreePageFileMemory : Integer
1131: Function GetFreePhysicalMemory : Integer
1132: Function GetFreeSystemResources( const ResourceType : TFreeSysResKind ) : Integer;
1133: Function GetFreeSystemResources1 : TFreeSystemResources;
1134: Function GetFreeVirtualMemory : Integer
1135: Function GetFromClipboard : Boolean
1136: Function GetFullURI( const AOptionalFields : TIdURIOptionalFieldsSet ) : String
1137: Function GetGBitmap( Value : TBitmap ) : TBitmap
1138: Function GetGMTDateByName( const AFileName : TIdFileName ) : TDateTime

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1139: Function GetGroupState( Level : Integer ) : TGroupPosInds
1140: Function GetHandle : HWND
1141: Function GETHELPCONTEXT( VALUE : INTEGER; BYCOMMAND : BOOLEAN ) : THELPCONTEXT
1142: function GetHexArray(ahexdig: THexArray): THexArray;
1143: Function GetHighLightColor( const Color : TColor; Luminance : Integer ) : TColor
1144: function GetHINSTANCE: longword;
1145: Function GetHistoryFolder : string
1146: Function GetHitTestInfoAt( X, Y : Integer ) : THitTests
1147: function getHMODULE: longword;
1148: Function GetHostNameBy( const AComputerName: String): String;
1149: Function GetHostName : string
1150: Function getHostIP: string;
1151: Function GetHotSpot : TPoint
1152: Function GetHueBitmap( Value : TBitmap) : TBitmap
1153: Function GetImageBitmap : HBITMAP
1154: Function GETIMAGELIST : TCUSTOMIMAGELIST
1155: Function GetIncome( const aNetto : Currency ) : Currency
1156: Function GetIncome( const aNetto : Extended ) : Extended
1157: Function GetIncome( const aNetto : Extended ) : Extended
1158: Function GetIncome( const aNetto : Extended ) : Extended
1159: function GetIncome( const aNetto: Currency): Currency
1160: Function GetIncome2( const aNetto : Currency ) : Currency
1161: Function GetIncome2( const aNetto : Currency ) : Currency
1162: Function getIndex_Atrrs( tag : string; var idx : Integer; var Attrs : string ) : string
1163: Function GETINDEXFORFIELDS( const FIELDS : String; CASEINSENSITIVE : BOOLEAN ) : TINDEXDEF
1164: Function GetIndexForOrderBy( const SQL : WideString; DataSet : TDataSet ) : TIndexDef
1165: Function GetInstRes(Instance:THandle;ResType:TResType;const
  Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor):Boolean;
1166: Function
  GetInstRes1(Instance:THandle;ResType:TResType;ResID:DWORD;Width:Int;LoadFlags:TLoadResources;MaskColor:TColor):Bool;
1167: Function GetIntelCacheDescription( const D : Byte ) : string
1168: Function GetInteractiveUserName : string
1169: Function GetInternetCacheFolder : string
1170: Function GetInternetFormattedFileTimeStamp( const AFilename : String ) : String
1171: Function GetIPAddress( const HostName : string ) : string
1172: Function GetIP( const HostName : string ) : string
1173: Function GetIPHostName(const AComputerName: String): String;
1174: Function GetIsAdmin: Boolean;
1175: Function GetItem( X, Y : Integer ) : LongInt
1176: Function GetItemAt( X, Y : Integer ) : TListItem
1177: Function GetItemHeight(Font: TFont): Integer;
1178: Function GetItemPath( Index : Integer ) : string
1179: Function GetKeyFieldNames( List : TStrings ) : Integer;
1180: Function GetKeyFieldNames1( List : TWideStrings ) : Integer;
1181: Function GetKeyState( const VirtualKey : Cardinal ) : Boolean
1182: Function GetLastChild : LongInt
1183: Function GetLastChild : TTreeNode
1184: Function GetLastDelimitedToken( const cDelim : char; const cStr : string ) : string
1185: function GetLastError: Integer
1186: Function GetLAT_CONV_FACTOR: double; //for WGS84 power(1 - 1 / 298.257223563, 2);
1187: Function GetLoader( Ext : string ) : TBitmapLoader
1188: Function GetLoadFilter : string
1189: Function GetLocalComputerName : string
1190: Function GetLocaleChar( Locale, LocaleType : Integer; Default : Char ) : Char
1191: Function GetLocaleStr( Locale, LocaleType : Integer; Default : string ) : string
1192: Function GetLocalUserName : string
1193: Function GetLoginUsername : WideString
1194: function getLongDayNames: string)
1195: Function GetLongHint( const hint: string): string
1196: function getLongMonthNames: string)
1197: Function GetMacAddresses( const Machine : string; const Addresses : TStrings ) : Integer
1198: Function GetMainAppWndFromPid( PID : DWORD ) : HWND
1199: Function GetMapX(C_form,apath: string; const Data: string): boolean; //c_form: [html/json/xml]
1200: //if GetMAPX('html',ExePath+'cologne2mapX.html','cathedral cologne') then
1201: Procedure GetGEOMap(C_form,apath: string; const Data: string);
1202: Function GetMapXGeoReverse(C_form: string; const lat,long: string): string;
1203: //if GetMapXGeoReverse('XML',topPath, '47.0397826', '7.6291476127788') then
1204: Function GetMaskBitmap : HBITMAP
1205: Function GetMaxAppAddress : Integer
1206: Function GetMciErrorMessage( const MciErrNo : MCIERROR ) : string
1207: Function GetMemoryLoad : Byte
1208: Function GetMIMEDefaultFileExt( const MIMEType : string ) : TIdFileName
1209: Function GetMIMETypeFromFile( const AFile : string ) : string
1210: Function GetMIMETypeFromFile( const AFile : TIdFileName ) : string
1211: Function GetMinAppAddress : Integer
1212: Function GetModule : TComponent
1213: Function GetModuleHandle( ModuleName : PChar ) : HMODULE
1214: Function GetModuleName( Module : HMODULE ) : string
1215: Function GetModulePath( const Module : HMODULE ) : string
1216: Function GetModuleFileName(Module: Integer; Filename: PChar;Size: Integer): Integer; stdcall;
1217: Function GetMorseID(InChar : Char): Word;')
1218: Function GetMorseString2(InChar : Char): string;');
1219: Function GetMorseLine(dots: boolean): string'); //whole table! {1 or dots}
1220: Function GetMorseTable(dots: boolean): string'); //whole table!
1221: Function GetMorseSign(InChar : Char): string;');
1222: Function GetCommandLine: PChar; stdcall;
1223: Function GetMonochromeBitmap( Value : TBitmap) : TBitmap
1224: Function GetMultiN(aval: integer): string;
1225: Function GetName : String

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1226: Function GetNearestItem( Point : TPoint; Direction : TSearchDirection ) : TListItem
1227: Function GetNethoodFolder : string
1228: Function GetNext : TTreeNode
1229: Function GetNextChild( Value : LongInt ) : LongInt
1230: Function GetNextChild( Value : TTreeNode ) : TTreeNode
1231: Function GetNextDelimitedToken( const cDelim : char; var cStr : String ) : String
1232: Function GetNextItem( StartItem: TListItem;Direction:TSearchDirection;States:TItemStates ) : TListItem
1233: Function GetNextPacket : Integer
1234: Function getNextSibling : TTreeNode
1235: Function GetNextVisible : TTreeNode
1236: Function GetNode( ItemId : HTreeItem ) : TTreeNode
1237: Function GetNodeAt( X, Y : Integer ) : TTreeNode
1238: Function GetNodeDisplayWidth( Node : TOutlineNode ) : Integer
1239: function GetNumberOfProcessors: longint;
1240: Function GetNumLockKeyState : Boolean
1241: Function GetObjectProperty( Instance : TPersistent; const PropName : string ) : TObject
1242: Function GetOnlyTransitionOn( cChar : char ) : TniRegularExpressionState
1243: Function GetOptionalParam( const ParamName : string ) : OleVariant
1244: Function GetOSName: string;
1245: Function GetOSVersion: string;
1246: Function GetOSNumber: string;
1247: Function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
1248: Function GetPackageModuleHandle( PackageName : PChar ) : HMODULE
1249: function GetPageSize: Cardinal;
1250: Function GetParameterFileName : string
1251: Function GetParams( var OwnerData : OleVariant ) : OleVariant
1252: Function GETPARENTCOMPONENT : TCOMPONENT
1253: Function GetParentForm(control: TControl): TForm
1254: Function GETPARENTMENU : TMENU
1255: Function GetPassword : Boolean
1256: Function GetPassword : string
1257: Function GetPersonalFolder : string
1258: Function GetPidFromProcessName( const ProcessName : string ) : DWORD
1259: function getPI: extended; //of const PI math
1260: Function GetPosition : TPoint
1261: Function GetPrev : TTreeNode
1262: Function GetPrevChild( Value : LongInt ) : LongInt
1263: Function GetPrevChild( Value : TTreeNode ) : TTreeNode
1264: Function getPrevSibling : TTreeNode
1265: Function GetPrevVisible : TTreeNode
1266: Function GetPrinthoodFolder : string
1267: Function GetPrivilegeDisplayName( const PrivilegeName : string ) : string
1268: Function getProcessList: TString;
1269: Function GetProcessId : TIdPID
1270: Function GetProcessNameFromPid( PID : DWORD ) : string
1271: Function GetProcessNameFromWnd( Wnd : HWND ) : string
1272: Function GetProcessMemoryInfo(Process: THandle;ppsmemCounters: TProcessMemoryCounters;cb: DWORD):BOOL
1273: Function getProcessAllMemory(ProcessID : DWORD): TProcessMemoryCounters;
1274: Function getProcessMemoryInfo2(ProcessID : DWORD): TProcessMemoryCounters;
1275: Function GetProgramFilesFolder : string
1276: Function GetProgramsFolder : string
1277: Function GetProxy : string
1278: Function GetQuoteChar : WideString
1279: Function GetQrCode4(Width,Height:Word; Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1280: Function GetQrCodeToFile(Width,Height:Word;Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1281: Function GetRate : Double
1282: Function getPerfTime: string;
1283: Function getRuntime: string;
1284: Function GetRBitmap( Value : TBitmap ) : TBitmap
1285: Function GetReadableName( const AName : string ) : string
1286: Function GetRecentDocs : TStringRecentList
1287: Function GetRecentFolder : string
1288: Function GetRecords( Count : Integer; out RecsOut : Integer; Options : Integer ) : OleVariant;
1289: Function GetRecords1(Count:Integer; out RecsOut:Integer;Options:Integer;const CommandText:WideString;var Params, OwnerData : OleVariant) : OleVariant;
1290: Function GetRecordset( const CommandText : WideString; ConnectionString : WideString ) : _Recordset
1291: Function GetRegisteredCompany : string
1292: Function GetRegisteredOwner : string
1293: Function GetResource(ResType:TResType;const Name:string;Width:Int;LoadFlags:TLoadResources;MaskColor:TColor:Bool
1294: Function GetResourceName( ObjStream : TStream; var AName : string ) : Boolean
1295: Function GetResponse( const AAllowedResponses : array of SmallInt ) : SmallInt;
1296: Function GetResponse1( const AAllowedResponse : SmallInt ) : SmallInt;
1297: Function GetRValue( rgb : DWORD ) : Byte
1298: Function GetGValue( rgb : DWORD ) : Byte
1299: Function GetBValue( rgb : DWORD ) : Byte
1300: Function GetCValue( cmyk : COLORREF ) : Byte
1301: Function GetMValue( cmyk : COLORREF ) : Byte
1302: Function GetYValue( cmyk : COLORREF ) : Byte
1303: Function GetKValue( cmyk : COLORREF ) : Byte
1304: Function CMYK( c, m, y, k : Byte ) : COLORREF
1305: Procedure GetScreenShot(var ABitmap : TBitmap);
1306: Function GetOSName: string;
1307: Function GetProcAddress( hModule : HMODULE; lpProcName : LPCSTR ) : FARPROC
1308: Function GetProcAddress(Module : HMODULE; Proc : PChar): Dword
1309: Function GetSafeCallExceptionMsg : String
1310: Function GetSaturationBitmap( Value : TBitmap ) : TBitmap

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1311: Function GetSaveFilter : string
1312: Function GetSaver( Ext : string) : TBitmapLoader
1313: Function GetScrollLockKeyState : Boolean
1314: Function GetSearchString : string
1315: Function GetSelections( Alist : TList) : TTreeNode
1316: function GETSELTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1317: Function GetSendToFolder : string
1318: Function GetServer : IAppServer
1319: Function GetServerList : OleVariant
1320: Function GetShadowColor( const Color : TColor; Luminance : Integer) : TColor
1321: Function GetShellProcessHandle : THandle
1322: Function GetShellProcessName : string
1323: Function GetShellVersion : Cardinal
1324: function getShortDayNames: string)
1325: Function GetShortHint(const hint: string): string
1326: function getShortMonthNames: string)
1327: Function GetSizeOffile( const FileName : string) : Int64;
1328: Function GetSizeOfFile1( Handle : THandle) : Int64;
1329: Function GetStdHandle(nStdHandle: Integer): Integer; stdcall;
1330: Function GetStartmenuFolder : string
1331: Function GetStartupFolder : string
1332: Function GetStringProperty( Instance : TPersistent; const PropName : string) : WideString
1333: Function GetSuccessor( cChar : char) : TniRegularExpressionState
1334: Function GetSwapFileSize : Integer
1335: Function GetSwapFileUsage : Integer
1336: Function GetSystemLocale : TIIdCharSet
1337: Function GetSystemMetrics( nIndex : Integer) : Integer
1338: Function GetSystemPathSH(Folder: Integer): TFilename ;
1339: Function GetTableNameFromQuery( const SQL : Widestring) : Widestring
1340: Function GetTableNameFromSQL( const SQL : WideString) : WideString
1341: Function GetTableNameFromSQLEx( const SQL : WideString; IdOption : IDENTIFEROPTION) : WideString
1342: Function GetTasksList( const List : TStrings) : Boolean
1343: Function getTeamViewerID: string;
1344: Function GetTemplatesFolder : string
1345: Function GetText : PwideChar
1346: function GetText:PChar
1347: Function GetTextBuf( Buffer : PChar; BufSize : Integer) : Integer
1348: function GETTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1349: Function GetTextItem( const Value : string) : Longint
1350: function GETTEXTLEN:INTEGER
1351: Function GetThreadLocale: Longint; stdcall
1352: Function GetCurrentThreadId: LongWord; stdcall;
1353: Function GetTickCount : Cardinal
1354: Function GetTickDiff( const AOldTickCount, ANewTickCount : Cardinal) : Cardinal
1355: Function GetTicketNr : longint
1356: Function GetTime : Cardinal
1357: Function GetTime : TDateTime
1358: Function GetTimeout : Integer
1359: Function GetTimeStr: String
1360: Function GetTimeString: String
1361: Function GetTodayFiles(startdir, amask: string): TStringlist;
1362: Function getTokenCounts : integer
1363: Function GetTotalPageFileMemory : Integer
1364: Function GetTotalPhysicalMemory : Integer
1365: Function GetTotalVirtualMemory : Integer
1366: Function GetUniqueFileName( const APath, APrefix, AExt : String) : String
1367: Function GetUseNowForDate : Boolean
1368: Function GetUserDomainName( const CurUser : string) : string
1369: Function GetUserName : string
1370: Function GetUserName: string;
1371: Function GetUserObjectName( hUserObject : THandle) : string
1372: Function GetValueBitmap( Value : TBitmap) : TBitmap
1373: Function GetValueMSec : Cardinal
1374: Function GetValueStr : String
1375: Function GetVersion: int;
1376: Function GetVersionString(File Name: string): string;
1377: Function getVideoDrivers: string;
1378: Function GetVisibleNode( Index : LongInt) : TOutlineNode
1379: Function GetVolumeFileSystem( const Drive : string) : string
1380: Function GetVolumeName( const Drive : string) : string
1381: Function GetVolumeSerialNumber( const Drive : string) : string
1382: Function GetWebAppServices : IWebAppServices
1383: Function GetWebRequestHandler : IWebRequestHandler
1384: Function GetWindowCaption( Wnd : HWND) : string
1385: Function GetWindowDC(hwnd: HWND): HDC;
1386: Function GetWindowIcon( Wnd : HWND; LargeIcon : Boolean) : HICON
1387: Function GetWindowRect(hwnd: HWND; arect: TRect): Boolean
1388: Function GetWindowsComputerID : string
1389: function GetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
1390: Function GetWindowsFolder : string
1391: Function GetWindowsServicePackVersion : Integer
1392: Function GetWindowsServicePackVersionString : string
1393: Function GetWindowsSystemFolder : string
1394: Function GetWindowsTempFolder : string
1395: Function GetWindowsUserID : string
1396: Function GetWindowsVersion : TWindowsVersion
1397: Function GetWindowsVersionString : string
1398: Function GmtOffsetStrToDate Time( S : string) : TDateTime
1399: Function GMTToLocalDate Time( S : string) : TDateTime
```

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1400: Function GotoKey : Boolean
1401: Function GradToCycle( const Grads : Extended ) : Extended
1402: Function GradToDeg( const Grads : Extended ) : Extended
1403: Function GradToDeg( const Value : Extended ) : Extended;
1404: Function GradToDeg1( const Value : Double ) : Double;
1405: Function GradToDeg2( const Value : Single ) : Single;
1406: Function GradToRad( const Grads : Extended ) : Extended
1407: Function GradToRad( const Value : Extended ) : Extended;
1408: Function GradToRad1( const Value : Double ) : Double;
1409: Function GradToRad2( const Value : Single ) : Single;
1410: Function Gray32( const Intensity : Byte; const Alpha : Byte ) : TColor32
1411: Function GreenComponent( const Color32 : TColor32 ) : Integer
1412: function GUIDToString(const GUID: TGUID): string
1413: Function HandleAllocated : Boolean
1414: function HandleAllocated: Boolean;
1415: Function HandleRequest : Boolean
1416: Function HandleRequest( Request : TWebRequest; Response : TWebResponse ) : Boolean
1417: Function HarmonicMean( const X : TDynFloatArray ) : Float
1418: Function HasAsParent( Value : TTreeNode ) : Boolean
1419: Function HASCHILDDEFS : BOOLEAN
1420: Function HasCurValues : Boolean
1421: Function HasExtendCharacter( const s : UTF8String ) : Boolean
1422: Function HasFormat( Format : Word ) : Boolean
1423: Function HashValue( AStream : TStream ) : T5x4LongWordRecord;
1424: Function HashValue(AStream : TStream) : T4x4LongWordRecord
1425: Function HashValue(AStream: TStream): LongWord
1426: Function HashValue(AStream: TStream): Word
1427: Function HashValue1( AStream : TStream; const ABeginPos, AEndPos : Int64 ) : T5x4LongWordRecord;
1428: Function HashValue1(AStream : TStream): T4x4LongWordRecord
1429: Function HashValue128( const ASrc: string): T4x4LongWordRecord;
1430: Function HashValue128Stream(AStream: TStream): T4x4LongWordRecord;
1431: Function HashValue16( const ASrc : string ) : Word;
1432: Function HashValue16stream( AStream : TStream ) : Word;
1433: Function HashValue32( const ASrc : string ) : LongWord;
1434: Function HashValue32Stream( AStream : TStream ) : LongWord;
1435: Function HasMergeConflicts : Boolean
1436: Function hasMoreTokens : boolean
1437: Function HASPARENT : BOOLEAN
1438: function HasParent: Boolean
1439: Function HasTransaction( Transaction : TDBXTransaction ) : Boolean
1440: Function HasUTF8BOM( S : TStream ) : boolean;
1441: Function HasUTF8BOM1( S : AnsiString ) : boolean;
1442: Function Haversine( X : Float ) : Float
1443: Function Head( s : string; const subs : string; var tail : string ) : string
1444: function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN
1445: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN
1446: function HELPUJUMP(JUMPID:STRING):BOOLEAN
1447: Function HeronianMean( const a, b : Float ) : Float
1448: function HexStrToStr(Value: string): string;
1449: function HexToBin(Text,Buffer:PChar; BufSize:Integer):Integer;
1450: function HexToBin2(HexNum: string): string;
1451: Function HexToDouble( const Hex : string ) : Double
1452: function HexToInt(hexnum: string): LongInt;
1453: function HexToStr(Value: string): string;
1454: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string
1455: function Hi(vdat: word): byte;
1456: function HiByte(W: Word): Byte
1457: function High: Int64;
1458: Function HighlightCell(DataCol,DataRow: Integer; const Value:string; AState:TGridDrawState): Boolean
1459: function HINSTANCE: longword;
1460: function HiWord(l: DWORD): Word
1461: function HMODULE: longword;
1462: Function HourOf( const AValue : TDateTime ) : Word
1463: Function HourOfTheDay( const AValue : TDateTime ) : Word
1464: Function HourOfTheMonth( const AValue : TDateTime ) : Word
1465: Function HourOfTheWeek( const AValue : TDateTime ) : Word
1466: Function HourOfTheYear( const AValue : TDateTime ) : Word
1467: Function HoursBetween( const ANow, AThen : TDateTime ) : Int64
1468: Function HourSpan( const ANow, AThen : TDateTime ) : Double
1469: Function HSLToRGB1( const H, S, L : Single ) : TColor32;
1470: Function HTMLDecode( const AStr : String ) : String
1471: Function HTMLEncode( const AStr : String ) : String
1472: Function HTMLEscape( const Str : string ) : string
1473: Function HtmlTable( DataSet : TDataSet; DataSetHandler : TDSTableProducer; MaxRows : Integer ) : string
1474: Function HTTPDecode( const AStr : String ) : string
1475: Function HTTPEncode( const AStr : String ) : string
1476: Function Hypot( const X, Y : Extended ) : Extended
1477: Function IBMax( n1, n2 : Integer ) : Integer
1478: Function IBMIn( n1, n2 : Integer ) : Integer
1479: Function IBRandomString( iLength : Integer ) : String
1480: Function IBRandomInteger( iLow, iHigh : Integer ) : Integer
1481: Function IBStripString( st : String; CharsToStrip : String ) : String
1482: Function IBFormatIdentifier( Dialect : Integer; Value : String ) : String
1483: Function IBFormatIdentifierValue( Dialect : Integer; Value : String ) : String
1484: Function IBExtractIdentifier( Dialect : Integer; Value : String ) : String
1485: Function IBQuoteIdentifier( Dialect : Integer; Value : String ) : String
1486: Function IBAddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string
1487: Procedure IBDecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String)
1488: Function RandomString( iLength : Integer ) : String';

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1489: Function RandomInteger( iLow, iHigh : Integer ) : Integer';
1490: Function StripString( st : String; CharsToStrip : String ) : String';
1491: Function FormatIdentifier( Dialect : Integer; Value : String ) : String';
1492: Function FormatIdentifierValue( Dialect : Integer; Value : String ) : String';
1493: Function ExtractIdentifier( Dialect : Integer; Value : String ) : String';
1494: Function QuoteIdentifier( Dialect : Integer; Value : String ) : String';
1495: Function AddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1496: Procedure DecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1497: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLToken): TSQLToken;
1498: Function IconToBitmap( Ico : HICON ) : TBitmap
1499: Function IconToBitmap2( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap
1500: Function IconToBitmap3( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap
1501: function IdentToCharset( const Ident : string; var Charset: Longint): Boolean)
1502: function IdentToColor( const Ident : string; var Color: Longint): Boolean)
1503: function IdentToCursor( const Ident : string; var cursor: Longint): Boolean;
1504: Function IdGetDefaultCharSet : TIdCharSet
1505: function IDispatchInvoke(Self:IDispatch;ProperSet:Boolean;const Name:String;Par:array of variant):variant
1506: Function IdPorts2 : TStringList
1507: Function IdToMib( const Id : string ) : string
1508: Function IdSHA1Hash(apath: string): string;
1509: Function IdHashSHA1(apath: string): string;
1510: Function IfStr( const bCondition : boolean; const sTrue : string; const sFalse : string ) : string
1511: Function IfThen( AValue : Boolean; const ATrue : string; AFalse : string ) : string;
1512: Function IfThenInt( AValue : Boolean; const ATrue : integer; AFalse : integer): integer';
1513: Function IfThenDouble( AValue : Boolean; const ATrue : double; AFalse : double): double';
1514: Function IfThenBool( AValue : Boolean; const ATrue : boolean; AFalse : boolean): boolean';
1515: Function iif1( ATest : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer;
1516: Function iif2( ATest : Boolean; const ATrue : string; const AFalse : string ) : string;
1517: Function iif3( ATest : Boolean; const ATrue : Boolean; const AFalse : Boolean ) : Boolean;
1518: function ImportTest(S1: string;s2:longint; s3:Byte; s4:word; var s5:string): string;
1519: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer ) : TDateTime
1520: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64 ) : TDateTime
1521: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1522: Function IncLimit1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1523: Function IncLimit2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1524: Function IncLimit3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1525: Function IncLimit4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1526: Function IncLimit5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1527: Function IncLimit6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1528: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1529: Function IncLimitClamp1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1530: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1531: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1532: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1533: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1534: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1535: Function IncludeTrailingBackslash( S : string ) : string
1536: function IncludeTrailingBackslash(const S: string): string
1537: Function IncludeTrailingPathDelimiter( const APath : string ) : string
1538: Function IncludeTrailingPathDelimiter( S : string ) : string
1539: function IncludeTrailingPathDelimiter(const S: string): string
1540: Function IncludeTrailingSlash( const APath : string ) : string
1541: Function IncMillisecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64 ) : TDateTime
1542: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64 ) : TDateTime
1543: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer ) : TDateTime
1544: function IncMonth(const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime
1545: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64 ) : TDateTime
1546: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer ) : TDateTime
1547: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer ) : TDateTime
1548: Function IndexOf( AClass : TClass ) : Integer
1549: Function IndexOf( AComponent : TComponent ) : Integer
1550: Function IndexOf( AObject : TObject ) : Integer
1551: Function INDEXOF( const ANAME : String ) : INTEGER
1552: Function IndexOf( const DisplayName : string ) : Integer
1553: Function IndexOf( const Item : TBookmarkStr ) : Integer
1554: Function IndexOf( const S : WideString ) : Integer
1555: Function IndexOf( const View : TJclFileMappingView ) : Integer
1556: Function INDEXOF( FIELD : TFIELD ) : INTEGER
1557: Function IndexOf( ID : LCID ) : Integer
1558: Function INDEXOF( ITEM : TMENUITEM ) : INTEGER
1559: Function IndexOf( Value : TListItem ) : Integer
1560: Function IndexOf( Value : TTreeNode ) : Integer
1561: function IndexOf( const S : string): Integer;
1562: Function IndexOfName( const Name : WideString ) : Integer
1563: function IndexOfName(Name: string): Integer;
1564: Function IndexOfObject( AObject : TObject ) : Integer
1565: function IndexofObject(AObject:tObject):Integer
1566: Function IndexOfTabAt( X, Y : Integer ) : Integer
1567: Function IndexStr( const AText : string; const AValues : array of string ) : Integer
1568: Function IndexText( const AText : string; const AValues : array of string ) : Integer
1569: Function IndexOfInteger( AList : TStringList; Value : Variant ) : Integer
1570: Function IndexOfFloat( AList : TStringList; Value : Variant ) : Integer
1571: Function IndexOfDate( AList : TStringList; Value : Variant ) : Integer
1572: Function IndexOfString( AList : TStringList; Value : Variant ) : Integer
1573: Function IndyCompareStr( const A1 : string; const A2 : string ) : Integer
1574: Function IndyGetHostName : string
1575: Function IndyInterlockedDecrement( var I : Integer ) : Integer
1576: Function IndyInterlockedExchange( var A : Integer; B : Integer ) : Integer
1577: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer ) : Integer

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1578: Function IndyInterlockedIncrement( var I : Integer) : Integer
1579: Function IndyLowerCase( const A1 : string) : string
1580: Function IndyStrToBool( const AString : String) : Boolean
1581: Function IndyUpperCase( const A1 : string) : string
1582: Function InitCommonControl( CC : Integer) : Boolean
1583: Function InitTempPath : string
1584: Function InMainThread : boolean
1585: Function inOpArray( W : WideChar; sets : array of WideChar) : boolean
1586: Function Input : Text)
1587: Function InputBox( const ACaption, APrompt, ADefault : string) : string
1588: function InputBox(const ACaption: string; const APrompt: string; const ADefault: string): string
1589: Function InputLn(const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1590: Function InputQuery( const ACaption, APrompt : string; var Value : string) : Boolean
1591: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean)
1592: Function InquireSignal( RtlSigNum : Integer) : TSignalState
1593: Function InRanger( const A, Min, Max : Double) : Boolean
1594: function Insert( Index : Integer) : TCollectionItem
1595: Function Insert( Index : Integer) : TComboExItem
1596: Function Insert( Index : Integer) : THeaderSection
1597: Function Insert( Index : Integer) : TListIItem
1598: Function Insert( Index : Integer) : TStatusPanel
1599: Function Insert( Index : Integer) : TWorkArea
1600: Function Insert( Index : LongInt; const Text : string) : LongInt
1601: Function Insert( Sibling : TTreenode; const S : string) : TTreenode
1602: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM) : INTEGER
1603: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM) : INTEGER
1604: Function InsertNode( Node, Sibling : TTreenode; const S : string; Ptr : Pointer) : TTreenode
1605: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
1606: Function InsertObject( Sibling : TTreenode; const S : string; Ptr : Pointer) : TTreenode
1607: Function Instance : Longint
1608: function InstanceSize: Longint
1609: Function Int(e : Extended) : Extended;
1610: function Int64ToStr(i: Int64): String;
1611: Function IntegerToBcd( const AValue : Integer) : TBcd
1612: Function Intensity( const Color32 : TColor32) : Integer;
1613: Function Intensity( const R, G, B : Single) : Single;
1614: Function InterestPayment(const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
FutureValue:Extended; PaymentTime : TPMTTime) : Extended
1615: Function InterestRate(NPeriods:Integer;const Payment,PresVal,
FutureVal:Extended;PaymentTime:TPMTTime):Extended
1616: Function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1617: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1618: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1619: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1620: function IntersectRect(out Rect: TRect; const R1, R2: TRect): Boolean)
1621: Function IntMibToStr( const Value : string) : string
1622: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1623: Function IntToBin( Value : cardinal) : string
1624: Function IntToHex( Value : Integer; Digits : Integer) : string;
1625: function IntToHex(a: integer; b: integer): string;
1626: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1627: function IntToHex64(Value: Int64; Digits: Integer): string)
1628: Function IntTo3Str( Value : Longint; separator: string) : string
1629: Function inttobool( aInt : LongInt) : Boolean
1630: function IntToStr(i: Int64): String;
1631: Function IntToStr64(Value: Int64): string)
1632: function IOResult: Integer
1633: Function IPv6AddressToStr(const AValue: TIIPv6Address): string
1634: Function IsAccel(VK: Word; const Str: string): Boolean
1635: Function IsAddressInNetwork( Address : String) : Boolean
1636: Function IsAdministrator : Boolean
1637: Function IsAlias( const Name : string) : Boolean
1638: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1639: Function IsASCII( const AByte : Byte) : Boolean;
1640: Function IsASCIILDH( const AByte : Byte) : Boolean;
1641: Function IsAssembly(const FileName: string): Boolean;
1642: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1643: Function IsBinary(const AChar : Char) : Boolean
1644: function IsConsole: Boolean)
1645: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1646: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean)
1647: Function IsDelphiDesignMode : boolean
1648: Function IsDelphiRunning : boolean
1649: Function IsDFAState : boolean
1650: Function IsDirectory( const FileName : string) : Boolean
1651: Function IsDomain( const S : String) : Boolean
1652: function IsDragObject(Sender: TObject): Boolean;
1653: Function IsEditing : Boolean
1654: Function ISEMPYTY : BOOLEAN
1655: Function IsEqual( Value : TParameters) : Boolean
1656: Function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1657: function IsEqualGUID(const guid1, guid2: TGUID): Boolean)
1658: Function IsFirstNode : Boolean
1659: Function IsFloatZero( const X : Float) : Boolean
1660: Function IsFormatRegistered( Extension, AppID : string) : Boolean
1661: Function IsFormOpen(const FormName: string): Boolean;
1662: Function IsFQDN( const S : String) : Boolean
1663: Function IsGrayScale : Boolean
1664: Function IsHex( AChar : Char) : Boolean;

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1665: Function IsHexString( const AString: string): Boolean;
1666: Function IsHostname( const S : String) : Boolean
1667: Function IsInfinite( const AValue : Double) : Boolean
1668: Function IsInLeapYear( const AValue : TDateTime) : Boolean
1669: Function IsInternet: boolean;
1670: Function IsLeadChar( ACh : Char) : Boolean
1671: Function IsLeapYear( Year : Word) : Boolean
1672: function IsLeapYear(Year: Word): Boolean
1673: function IsLibrary: Boolean)
1674: Function ISLINE : BOOLEAN
1675: Function IsLinkedTo( DataSet : TDataSet) : Boolean
1676: Function ISLINKEDTO( DATASOURCE : TDATASOURCE) : BOOLEAN
1677: Function IsLiteralChar( const EditMask : string; Offset : Integer) : Boolean
1678: Function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1679: Function IsMainAppWindow( Wnd : HWND) : Boolean
1680: Function IsMediaPresentInDrive( Drive : Char) : Boolean
1681: function IsMemoryManagerSet: Boolean)
1682: Function IsMultiTableQuery( const SQL : WideString) : Boolean
1683: function IsMultiThread: Boolean)
1684: Function IsNumeric( AChar : Char) : Boolean;
1685: Function IsNumeric2( const AString : string) : Boolean;
1686: Function IsNTFS: Boolean;
1687: Function IsOctal( AChar : Char) : Boolean;
1688: Function IsOctalString(const AString: string) : Boolean;
1689: Function IsPathDelimiter( S : string; Index : Integer) : Boolean
1690: function IsPathDelimiter(const S: string; Index: Integer): Boolean
1691: Function IsPM( const AValue : TDateTime) : Boolean
1692: Function IsPositiveFloatArray( const X : TDynFloatArray) : Boolean
1693: Function IsPortAvailable( ComNum : Cardinal) : Boolean');
1694: Function IsCOMPortReal( ComNum : Cardinal) : Boolean)';
1695: Function IsCOM( ComNum : Cardinal) : Boolean)';
1696: Function IsCOMPort: Boolean)';
1697: Function IsPrimeFactor( const F, N : Cardinal) : Boolean
1698: Function IsPrimerM( N : Cardinal) : Boolean //rabin miller
1699: Function IsPrimeTD( N : Cardinal) : Boolean //trial division
1700: Function IsPrivilegeEnabled( const Privilege : string) : Boolean
1701: Function ISqrt( const I : Smallint) : Smallint
1702: Function IsReadOnly(const Filename: string): boolean;
1703: Function IsRectEmpty( const Rect : TRect) : Boolean
1704: function IsRectEmpty(const Rect: TRect): Boolean)
1705: Function IsRelativePrime( const X, Y : Cardinal) : Boolean
1706: Function ISRIGHTTOLEFT : BOOLEAN
1707: function IsRightToLeft: Boolean
1708: Function IsSameDay( const AValue, ABasis : TDateTime) : Boolean
1709: Function ISSEQUENCED : BOOLEAN
1710: Function IsSystemModule( const Module : HMODULE) : Boolean
1711: Function IsSystemResourcesMeterPresent : Boolean
1712: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
1713: Function IsToday( const AValue : TdateTime) : Boolean
1714: function IsToday(const AValue: TDateTime): Boolean;
1715: Function IsTopDomain( const AStr : string) : Boolean
1716: Function IsUTF8LeadByte( Lead : Char) : Boolean
1717: Function IsUTF8String( const s : UTF8String) : Boolean
1718: Function IsUTF8TrailByte( Lead : Char) : Boolean
1719: Function ISVALIDCHAR( INPUTCHAR : CHAR) : BOOLEAN
1720: Function IsValidDate( const AYear, AMonth, ADay : Word) : Boolean
1721: Function IsValidDateDay( const AYear, ADayOfYear : Word) : Boolean
1722: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word) : Boolean
1723: Function IsValidDateTime(const AYear,AMonth, ADay,AHour,AMinute, ASecond, AMilliSecond: Word): Boolean
1724: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word) : Boolean
1725: Function IsValidIdent( Ident : string) : Boolean
1726: function IsValidIdent1(const Ident: string; AllowDots: Boolean): Boolean)
1727: Function IsValidIP( const S : String) : Boolean
1728: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word) : Boolean
1729: Function IsValidPNG(stream: TStream): Boolean;
1730: Function IsValidJPEG(stream: TStream): Boolean;
1731: Function IsValidISBN( const ISBN : AnsiString) : Boolean
1732: Function IsVariantManagerSet: Boolean; //deprecated;
1733: Function IsVirtualPcGuest : Boolean;
1734: Function IsVmWareGuest : Boolean;
1735: Function IsVCLControl(Handle: HWND): Boolean;
1736: Function IsWhiteString( const AStr : String) : Boolean
1737: Function IsWindowResponding( Wnd : HWND; Timeout : Integer) : Boolean
1738: Function IsWow64: boolean;
1739: Function IsWin64: boolean;
1740: Function IsWow64String(var s: string): Boolean;
1741: Function IsWin64String(var s: string): Boolean;
1742: Function IsWindowsVista: boolean;
1743: Function isPowerof2(num: int64): boolean;
1744: Function powerOf2(exponent: integer): int64;
1745: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1746: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1747: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1748: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1749: function ITEMATPOS(POS:TPOINT:EXISTING:BOOLEAN):INTEGER
1750: Function ItemRect( Index : Integer) : TRect
1751: function ITEMRECT(INDEX:INTEGER):TRECT
1752: Function ItemWidth( Index : Integer) : Integer
1753: Function JavahashCode(val: string): Integer;

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1754: Function JosephusG(n,k: integer; var graphout: string): integer;
1755: Function JulianDateToDateTIme( const AValue : Double) : TDateTime
1756: Function JustName(PathName : string) : string; //in path and ext
1757: Function JvMessageBox( const Text, Caption : string; Flags : DWORD) : Integer;
1758: Function JvMessageBox1( const Text : string; Flags : DWORD) : Integer;
1759: Function KeepAlive : Boolean
1760: Function KeysToShiftState(Keys: Word): TShiftState;
1761: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1762: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1763: Function KeyboardStateToShiftState: TShiftState; overload;
1764: Function Languages : TLanguages
1765: Function Last : TClass
1766: Function Last : TComponent
1767: Function Last : TObject
1768: Function LastDelimiter( Delimiters, S : string) : Integer
1769: function LastDelimiter(const Delimiters: string; const S: string): Integer
1770: Function LastPos( const ASubstr : string; const AStr : string) : Integer
1771: Function Latitude2WGS84(lat: double): double;
1772: Function LCM(m,n:longint):longint;
1773: Function LCMJ( const X, Y : Cardinal) : Cardinal
1774: Function Ldexp( const X : Extended; const P : Integer) : Extended
1775: Function LeftStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
1776: Function LeftStr( const AText : WideString; const ACount : Integer) : WideString;
1777: function Length: Integer;
1778: Procedure LetfileList(FileList: TStringlist; apath: string);
1779: function lengthmp3(mp3path: string):integer;
1780: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect) : Boolean;
1781: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean;
1782: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
  L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1783: function LineStart(Buffer, BufPos: PChar): PChar
1784: function LineStart(Buffer, BufPos: PChar): PChar)
1785: function ListSeparator: char;
1786: function Ln(x: Extended): Extended;
1787: Function LnXP1( const X : Extended) : Extended
1788: function Lo(vdat: word): byte;
1789: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1790: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean) : Boolean
1791: Function LoadfileAsString( const FileName : string) : string
1792: Function LoadFromFile( const FileName : string) : TBitmapLoader
1793: function Loadfile(const FileName: TFileName): string;
1794: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1795: Function LoadPackage(const Name: string): HMODULE
1796: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1797: Function LoadStr( Ident : Integer) : string
1798: Function LoadString(Instance: Longint; IDent: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1799: Function LoadWideStr( Ident : Integer) : WideString
1800: Function LOCATE(const KEYFIELDS: String;const KEYVALUES: VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1801: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
1802: Function LockServer( fLock : LongBool) : HResult
1803: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1804: Function Log( const X : Extended) : Extended
1805: Function Log10( const X : Extended) : Extended
1806: Function Log2( const X : Extended) : Extended
1807: function LogBase10(X: Float): Float;
1808: Function LogBase2(X: Float): Float;
1809: Function LogBaseN(Base, X: Float): Float;
1810: Function LogN( const Base, X : Extended) : Extended
1811: Function LogOffOS : Boolean
1812: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1813: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1814: Function LongDateFormat: string;
1815: function LongTimeFormat: string;
1816: Function LongWordToFourChar( ACARDINAL : LongWord) : string
1817: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1818: Function LookupName( const name : string) : TInAddr
1819: Function LookupService( const service : string) : Integer
1820: function Low: Int64;
1821: Function LowerCase( S : string) : string
1822: Function Lowercase(s : AnyString) : AnyString;
1823: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1824: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1825: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1826: function MainInstance: longword
1827: function MainThreadID: longword
1828: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1829: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1830: Function MakeCanonicalIPv4Address( const AAddr : string) : string
1831: Function MakeCanonicalIPv6Address( const AAddr : string) : string
1832: Function MakeDIB( out Bitmap : PBitmapInfo) : Integer
1833: Function MakeDWordIntoIPv4Address( const ADWord : Cardinal) : string
1834: Function MakeFile(const FileName: string): integer';
1835: function MakeLong(A, B: Word): Longint)
1836: Function MakeTempFilename( const APath : String) : string
1837: Function MakeValidFileName( const Str : string) : string
1838: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1839: function MakeWord(A, B: Byte): Word)
1840: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1841: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string

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1842: Function MapValues( Mapping : string; Value : string) : string
1843: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1844: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1845: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1846: Function MaskGetFldSeparator( const EditMask : string) : Integer
1847: Function MaskGetMaskBlank( const EditMask : string) : Char
1848: Function MaskGetMaskSave( const EditMask : string) : Boolean
1849: Function MaskIntLiteralToChar( IChar : Char) : Char
1850: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1851: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1852: Function MaskString( Mask, Value : String) : String
1853: Function Match( const sString : string) : THiRegularExpressionMatchResult
1854: Function Match1( const sString : string; iStart : integer) : THiRegularExpressionMatchResult
1855: Function Matches( const Filename : string) : Boolean
1856: Function MatchesMask( const Filename, Mask : string) : Boolean
1857: Function Matchstr( const AText : string; const AValues : array of string) : Boolean
1858: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1859: Function Max( AValueOne, AValueTwo : Integer) : Integer
1860: function Max(const x,y: Integer): Integer;
1861: Function Max1( const B1, B2 : Shortint) : Shortint;
1862: Function Max2( const B1, B2 : Smallint) : Smallint;
1863: Function Max3( const B1, B2 : Word) : Word;
1864: function Max3(const x,y,z: Integer): Integer;
1865: Function Max4( const B1, B2 : Integer) : Integer;
1866: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1867: Function Max6( const B1, B2 : Int64) : Int64;
1868: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1869: Function MaxFloat( const X, Y : Float) : Float
1870: Function MaxFloatArray( const B : TDynFloatArray) : Float
1871: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1872: function MaxIntValue(const Data: array of Integer):Integer
1873: Function MaxJ( const B1, B2 : Byte) : Byte;
1874: function MaxPath: string;
1875: function MaxValue(const Data: array of Double): Double)
1876: Function MaxCalc( const Formula : string) : Extended //math expression parser
1877: Procedure MaxCalcF( const Formula : string); //out to console memo2
1878: function MD5(const fileName: string): string;
1879: Function Mean( const Data : array of Double) : Extended
1880: Function Median( const X : TDynFloatArray) : Float
1881: Function Memory : Pointer
1882: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer) : Integer
1883: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1884: function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1885: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1886: Function MessageDlg1(const
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1887: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
  Y:Integer):Integer;
1888: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;
1889: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string) : Integer;
1890: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn) : Integer;
1891: Function MibToId( Mib : string) : string
1892: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer) : AnsiString;
1893: Function MidStr( const AText : WideString; const AStart, ACount : Integer) : WideString;
1894: Function microsecondsToCentimeters(msconds: longint): longint; //340m/s speed of sound
1895: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64
1896: Function MIDIOut( DeviceID : Cardinal) : IJclMIDIOut
1897: Procedure GetMidiOutputs( const List : TStrings)
1898: // GetGEOMAPX('html',ExePath+cologne2mapX.html','cathedral_cologne')
1899: Procedure GetGEOMap(C_form,apath: string; const Data: string); //c_form: [html/json/xml]
1900: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single) : TSingleNoteTuningData
1901: Function MIDINoteToStr( Note : TMIDINote) : string
1902: Function WinMidiOut( DeviceID : Cardinal) : IJclWinMidiOut
1903: Procedure GetMidiOutputs( const List : TStrings)
1904: Procedure MidiOutCheck( Code : MMResult)
1905: Procedure MidiInCheck( Code : MMResult)
1906: Function MillisecondOf( const AValue : TDateTime) : Word
1907: Function MillisecondOfTheDay( const AValue : TDateTime) : LongWord
1908: Function MillisecondOfTheHour( const AValue : TDateTime) : LongWord
1909: Function MillisecondOfTheMinute( const AValue : TDateTime) : LongWord
1910: Function MillisecondOfTheMonth( const AValue : TDateTime) : LongWord
1911: Function MillisecondOfTheSecond( const AValue : TDateTime) : Word
1912: Function MillisecondOfTheWeek( const AValue : TDateTime) : LongWord
1913: Function MillisecondOfTheYear( const AValue : TDateTime) : Int64
1914: Function MillisecondsBetween( const ANow, AThen : TDateTime) : Int64
1915: Function MillisecondSpan( const ANow, AThen : TDateTime) : Double
1916: Function milliToDateTIme( Millisecond : LongInt) : TDateTime';
1917: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean) : Int64
1918: Function millis: int64;
1919: Function Min( AValueOne, AValueTwo : Integer) : Integer
1920: Function Min1( const B1, B2 : Shortint) : Shortint;
1921: Function Min2( const B1, B2 : Smallint) : Smallint;
1922: Function Min3( const B1, B2 : Word) : Word;
1923: Function Min4( const B1, B2 : Integer) : Integer;
1924: Function Min5( const B1, B2 : Cardinal) : Cardinal;
1925: Function Min6( const B1, B2 : Int64) : Int64;

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1926: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1927: Function MinClientRect : TRect;
1928: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1929: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1930: Function MinFloat( const X, Y : Float ) : Float
1931: Function MinFloatArray( const B : TDynFloatArray ) : Float
1932: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1933: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1934: Function MinimizeName( const Filename : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1935: function MinimizeName( const Filename: String; Canvas: TCanvas; MaxLen: Integer): TFileName
1936: Function MinIntValue( const Data : array of Integer ) : Integer
1937: function MinIntValue(const Data: array of Integer):Integer)
1938: Function MinJ( const B1, B2 : Byte) : Byte;
1939: Function MinuteOf( const AValue : TDateTime ) : Word
1940: Function MinuteOfTheDay( const AValue : TDateTime ) : Word
1941: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1942: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1943: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1944: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1945: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1946: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1947: Function MinValue( const Data : array of Double ) : Double
1948: function MinValue(const Data: array of Double): Double
1949: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1950: Function MMCheck( const MciError : MCIERROR; const Msg : string ) : MCIERROR
1951: Function ModFloat( const X, Y : Float ) : Float
1952: Function ModifiedJulianDateToDate( const AValue : Double ) : TDateTime
1953: Function Modify( const Key : string; Value : Integer ) : Boolean
1954: Function ModuleCacheID : Cardinal
1955: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1956: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1957: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1958: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1959: Function MonthOf( const AValue : TDateTime ) : Word
1960: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1961: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1962: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1963: Function MonthStr( DateTime : TDateTime ) : string
1964: Function MouseCoord( X, Y : Integer ) : TGridCoord
1965: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER
1966: Function Movefile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1967: Function MoveNext : Boolean
1968: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1969: function MSecsToTimeStamp(MSecs: Comp): TTimeStamp
1970: Function Name : string
1971: Function NetPresentValue(const Rate:Extended;const CashFlows:array of
Double;PaymentTime:TPaymentTime):Extended
1972: function NetworkVolume(DriveChar: Char): string
1973: Function NEWBOTOMLINE : INTEGER
1974: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant ) : PExprNode
1975: Function NEWITEM( const ACAPTION : String; ASHORTCUT : TSHORTCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK : TNOTIFYEVENT; HCTX : WORD; const ANAME : String ) : TMENUITEM
1976: Function NEWLINE : TMENUITEM
1977: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem ) : TMAINMENU
1978: Function NewNode(Kind: TExprNodeKind; Operator:TCANOperator; const Data:Variant; Left,
Right:PExprNode):PExprNode
1979: Function NEWPOPUPMENU(OWNER:TCOMPONENT;const ANAME:String; ALIGNMENT:TPOPUPALIGNMENT;AUTOPOPUP:BOOLEAN;
const ITEMS : array of TCMENUITEM) : TPOPUPMENU
1980: Function NewState : TniRegularExpressionStateType) : TniRegularExpressionState
1981: Function NEWSUBMENU(const ACAPT:String;HCTX:WORD;const ANAME:String;ITEMS:array of
TMenuItem;AENABLED:BOOL) : TMENUITEM
1982: Function NEWTOPLINE : INTEGER
1983: Function Next : TIIdAuthWhatsNext
1984: Function NextCharIndex( S : String; Index : Integer ) : Integer
1985: Function NextRecordSet : TCustomSQLDataSet
1986: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1987: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLEToken ) : TSQLEToken;
1988: Function NextToken : Char
1989: Function nextToken : WideString
1990: function NextToken:Char
1991: Function Norm( const Data : array of Double ) : Extended
1992: Function NormalizeAngle( const Angle : Extended ) : Extended
1993: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
1994: Function NormalizeRect( const Rect : TRect ) : TRect
1995: function NormalizeRect(const Rect: TRect): TRect;
1996: Function Now : TDateTime
1997: function Now2: tDateTime
1998: Function NumProcessThreads : integer
1999: Function NumThreadCount : integer
2000: Function NthDayOfWeek( const AValue : TDateTime ) : Word
2001: Function NtProductType : TNTProductType
2002: Function NtProductTypeString : string
2003: function Null: Variant;
2004: Function NullPoint : TPoint
2005: Function NullRect : TRect
2006: Function Null2Blank(aString:String):String;
2007: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue :
Extended; PaymentTime : TPpaymentTime ) : Extended
2008: Function NumIP : integer

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2009: function Odd(x: Longint): boolean;
2010: Function OffsetFromUTC : TDateTime
2011: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
2012: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
2013: function OffsetRect(var Rect : TRect; DX:Integer; DY:Integer): Boolean
2014: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
2015: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
2016: Function OldBCDToCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
2017: Function OldCurrToBCD(const Curr:Currency; var BCD:TBCd; Precision:Integer;Decimals:Integer): Boolean
2018: function OpenBit:Integer
2019: Function OpenDatabase : TDatabase
2020: Function OpenDatabase( const DatabaseName : string ) : TDatabase
2021: Procedure OpenDir(adir: string);
2022: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
2023: Function OpenMap(const Data: string): boolean;
2024: Function OpenMapX(const Data: string): boolean;
2025: Function OpenObject( Value : PChar ) : Boolean;
2026: Function OpenObject1( Value : string ) : Boolean;
2027: Function OpenSession( const SessionName : string ) : TSession
2028: Function OpenVolume( const Drive : Char ) : THandle
2029: function OrdFourByteToCardinal(AByte1, AByte2, AByte3, AByte4 : Byte): Cardinal
2030: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
2031: Function OrdToBinary( const Value : Byte ) : string;
2032: Function OrdToBinary1( const Value : Shortint ) : string;
2033: Function OrdToBinary2( const Value : Smallint ) : string;
2034: Function OrdToBinary3( const Value : Word ) : string;
2035: Function OrdToBinary4( const Value : Integer ) : string;
2036: Function OrdToBinary5( const Value : Cardinal ) : string;
2037: Function OrdToBinary6( const Value : Int64 ) : string;
2038: Function OSCheck( RetVal : Boolean ) : Boolean
2039: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
2040: Function OSIdentToString( const OSIdent : DWORD ) : string
2041: Function Output: Text)
2042: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
2043: Function Owner : TCustomListView
2044: function Owner : TPersistent
2045: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2046: Function PadL( pStr : String; pLth : integer ) : String
2047: Function Padl(s : AnyString;I : longInt) : AnyString;
2048: Function PadLCh( pStr : String; pLth : integer; pChr : char ) : String
2049: Function PadR( pStr : String; pLth : integer ) : String
2050: Function Padr(s : AnyString;I : longInt) : AnyString;
2051: Function PadRCh( pStr : String; pLth : integer; pChr : char ) : String
2052: Function PadString( const AString : String; const ALen : Integer; const AChar : Char ) : String
2053: Function Padz(s : AnyString;I : longInt) : AnyString;
2054: Function PaethPredictor( a, b, c : Byte ) : Byte
2055: Function PARAMBYNAME( const VALUE : String ) : TPARAM
2056: Function ParamByName( const Value : WideString ) : TParameter
2057: Function ParamCount: Integer
2058: Function ParamsEncode( const ASrc : string ) : string
2059: function ParamStr(Index: Integer): string)
2060: Function ParseDate( const DateStr : string ) : TDateTime
2061: Function PARSESQL( SQL : String; DOCREATE : BOOLEAN ) : String
2062: Function ParseSQL( SQL : WideString; DoCreate : Boolean) : WideString
2063: Function PathAddExtension( const Path, Extension : string ) : string
2064: Function PathAddSeparator( const Path : string ) : string
2065: Function PathAppend( const Path, Append : string ) : string
2066: Function PathBuildRoot( const Drive : Byte ) : string
2067: Function PathCanonicalize( const Path : string ) : string
2068: Function PathCommonPrefix( const Path1, Path2 : string ) : Integer
2069: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer:CmpFmt:TCompactPath):string;
2070: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int:CmpFmt:TCompactPath):string;
2071: Function PathEncode( const ASrc : string ) : string
2072: Function PathExtractFileDirFixed( const S : AnsiString ) : AnsiString
2073: Function PathExtractFileNameNoExt( const Path : string ) : string
2074: Function PathExtractPathDepth( const Path : string; Depth : Integer ) : string
2075: Function PathGetDepth( const Path : string ) : Integer
2076: Function PathGetLongName( const Path : string ) : string
2077: Function PathGetLongName2( Path : string ) : string
2078: Function PathGetShortName( const Path : string ) : string
2079: Function PathIsAbsolute( const Path : string ) : Boolean
2080: Function PathIsChild( const Path, Base : AnsiString ) : Boolean
2081: Function PathIsDiskDevice( const Path : string ) : Boolean
2082: Function PathIsUNC( const Path : string ) : Boolean
2083: Function PathRemoveExtension( const Path : string ) : string
2084: Function PathRemoveSeparator( const Path : string ) : string
2085: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2086: Function Peek : Pointer
2087: Function Peek : TObject
2088: function PERFORM(MSG:CARDINAL;WPARAM,LPARAM:LONGINT):LONGINT
2089: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime ) : Extended
2090: function Permutation(npr, k: integer): extended;
2091: function PermutationInt(npr, k: integer): Int64;
2092: Function PermutationJ( N, R : Cardinal ) : Float
2093: Function Pi : Extended;
2094: Function PiE : Extended;
2095: Function PixelsToDialogsX( const Pixels : Word ) : Word

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2096: Function PixelsToDialogsY( const Pixels : Word) : Word
2097: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2098: Function Point( X, Y : Integer) : TPoint
2099: function Point(X, Y: Integer): TPoint
2100: Function PointAssign( const X, Y : Integer) : TPoint
2101: Function PointDist( const P1, P2 : TPoint) : Double;
2102: function PointDist(const P1,P2: TFloatPoint): Double;
2103: Function PointDist1( const P1, P2 : TFloatPoint ) : Double;
2104: function PointDist2(const P1,P2: TPoint): Double;
2105: Function PointEqual( const P1, P2 : TPoint ) : Boolean
2106: Function PointIsNull( const P : TPoint ) : Boolean
2107: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint ) : Double
2108: Function Poly( const X : Extended; const Coefficients : array of Double ) : Extended
2109: Function PortTCPISOpen(dwPort : Word; ipAddressStr: String): boolean;
2110: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2111: Function Pop : Pointer
2112: Function Pop : TObject
2113: Function PopnStdDev( const Data : array of Double ) : Extended
2114: Function PopnVariance( const Data : array of Double ) : Extended
2115: Function PopulationVariance( const X : TDynFloatArray ) : Float
2116: function Pos(SubStr, S: AnyString): Longint;
2117: Function PosEqual( const Rect : TRect ) : Boolean
2118: Function PosEx( const SubStr, S : string; Offset : Integer ) : Integer
2119: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt ) : Integer
2120: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2121: Function Post1( AURL : string; const ASource : TStrings ) : string;
2122: Function Post2( AURL : string; const ASource : TStream ) : string;
2123: Function Post3( AURL : string; const ASource : TIIdMultiPartFormDataStream ) : string;
2124: Function PostData( const UserData : WideString; const CheckSum : DWORD ) : Boolean
2125: Function PostData( const UserData : WideString; const CheckSum : integer ) : Boolean
2126: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2127: Function Power( const Base, Exponent : Extended ) : Extended
2128: Function PowerBig(aval, n:integer): string;
2129: Function PowerIntJ( const X : Float; N : Integer ) : Float;
2130: Function PowerJ( const Base, Exponent : Float ) : Float;
2131: Function PowerOffOS : Boolean
2132: Function PreformatDateString( Ps : string ) : string
2133: Function PresentValue(const Rate:Extend;NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2134: Function PrimeFactors( N : Cardinal ) : TDynCardinalArray
2135: Function Printer : TPrinter
2136: Function ProcessPath2( const ABasePath:String; const APath: String; const APathDelim:string): string
2137: Function ProcessResponse : TIidHTTPWhatsNext
2138: Function ProduceContent : string
2139: Function ProduceContentFromStream( Stream : TStream ) : string
2140: Function ProduceContentFromString( const S : string ) : string
2141: Function ProgIDToClassID(const ProgID: string): TGUID;
2142: Function PromptDataLinkFile( ParentHandle : THandle; InitialFile : WideString ) : WideString
2143: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString ) : WideString
2144: Function PromptForFileName( var AFileName : string; const AFilter : string; const ADefaultExt : string;
const ATitle : string; const AInitialDir : string; SaveDialog : Boolean ) : Boolean
2145: function PromptForFileName(var AFileName: string; const AFilter: string; const ADefaultExt: string;const
ATitle: string; const AInitialDir: string; SaveDialog: Boolean);
2146: Function PSScriptNeedFile(Sender:Tobject;const OrginFileName:String;var FileName,Output:String):Boolean
2147: Function PtInRect( const Rect : TRect; const P : TPoint ) : Boolean
2148: function PtInRect(const Rect : TRect; const P: TPoint): Boolean
2149: Function Push( AItem : Pointer ) : Pointer
2150: Function Push( AObject : TObject ) : TObject
2151: Function Putl( AURL : string; const ASource : TStream ) : string;
2152: Function Pythagoras( const X, Y : Extended ) : Extended
2153: Function queryDLLInterface( var queryList : TStringList ) : TStringList
2154: Function queryDLLInterfaceTwo( var queryList : TStringList ) : TStringList
2155: Function QueryInterface(const IID: TGUID; out Obj): HResult, CdStdCall
2156: Function queryPerformanceCounter2(mse: int64): int64;
2157: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2158: //Function QueryPerformanceFrequency(mse: int64): boolean;
2159: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2160: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2161: Procedure QueryPerformanceCounter1(var aC: Int64);
2162: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2163: Function Quote( const ACommand : String ) : SmallInt
2164: Function QuotedStr( S : string ) : string
2165: Function RadToCycle( const Radians : Extended ) : Extended
2166: Function RadToDeg( const Radians : Extended ) : Extended
2167: Function RadToDeg( const Value : Extended ) : Extended;
2168: Function RadToDeg1( const Value : Double ) : Double;
2169: Function RadToDeg2( const Value : Single ) : Single;
2170: Function RadToGrad( const Radians : Extended ) : Extended
2171: Function RadToGrad( const Value : Extended ) : Extended;
2172: Function RadToGrad1( const Value : Double ) : Double;
2173: Function RadToGrad2( const Value : Single ) : Single;
2174: Function RandG( Mean, StdDev : Extended ) : Extended
2175: function Random(const ARange: Integer): Integer;
2176: function random2(a: integer): double
2177: function RandomE: Extended;
2178: function RandomF: Extended;
2179: Function RandomFrom( const AValues : array of string ) : string;
2180: Function RandomRange( const AFrom, ATo : Integer ) : Integer
2181: function randSeed: longint

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2182: Function RawToDataColumn( ACol : Integer ) : Integer
2183: Function Read : Char
2184: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint ) : HResult
2185: function Read(Buffer:String;Count:LongInt):LongInt
2186: Function ReadBinaryStream( const Section, Name : string; Value : TStream ) : Integer
2187: Function ReadBool( const Section, Ident : string; Default : Boolean ) : Boolean
2188: Function ReadCardinal( const AConvert : boolean ) : Cardinal
2189: Function ReadChar : Char
2190: Function ReadClient( var Buffer, Count : Integer ) : Integer
2191: Function ReadDate( const Section, Name : string; Default : TDateTime ) : TDateTime
2192: Function ReadDateTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2193: Function ReadFloat( const Section, Name : string; Default : Double ) : Double
2194: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptionTimeout:Bool):Int
2195: Function ReadInteger( const AConvert : boolean ) : Integer
2196: Function ReadInteger( const Section, Ident : string; Default : Longint ) : Longint
2197: Function ReadLn : string
2198: Function ReadLn( ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer ) : string
2199: function ReadLn(question: string): string;
2200: Function readln: string; //read last line in memo2 - console!
2201: Function ReadLnWait( AFailCount : Integer ) : string
2202: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2203: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2204: Function ReadSmallInt( const AConvert : boolean ) : SmallInt
2205: Function ReadString( const ABytes : Integer ) : string
2206: Function ReadString( const Section, Ident, Default : string ) : string
2207: Function ReadString( Count : Integer ) : string
2208: Function ReadTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2209: Function ReadTimeStampCounter : Int64
2210: Function RebootOS : Boolean
2211: Function Receive( ATimeOut : Integer ) : TReplyStatus
2212: Function ReceiveBuf( var Buf, Count : Integer ) : Integer
2213: Function ReceiveLength : Integer
2214: Function ReceiveText : string
2215: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2216: Function ReceiveSerialText: string
2217: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word ) : TDateTime
2218: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,AMilliSec:Word):TDateTime
2219: Function RecodeDay( const AValue : TDateTime; const ADay : Word ) : TDateTime
2220: Function RecodeHour( const AValue : TDateTime; const AHour : Word ) : TDateTime
2221: Function RecodeMillisecond( const AValue : TDateTime; const AMilliSecond : Word ) : TDateTime
2222: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word ) : TDateTime
2223: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word ) : TDateTime
2224: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word ) : TDateTime
2225: Function RecodeTime( const AValue: TDateTime;const AHour,AMinute,ASecond,AMilliSecond:Word):TDateTime
2226: Function RecodeYear( const AValue : TDateTime; const AYear : Word ) : TDateTime
2227: Function Reconcile( const Results : OleVariant) : Boolean
2228: Function Rect( Left, Top, Right, Bottom : Integer ) : TRect
2229: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect
2230: Function Rect2( const ATopLeft, ABottomRight : TPoint ) : TRect;
2231: Function RectAssign( const Left, Top, Right, Bottom : Integer ) : TRect
2232: Function RectAssignPoints( const TopLeft, BottomRight : TPoint ) : TRect
2233: Function RectBounds( const Left, Top, Width, Height : Integer ) : TRect
2234: Function RectCenter( const R : TRect ) : TPoint
2235: Function RectEqual( const R1, R2 : TRect ) : Boolean
2236: Function RectHeight( const R : TRect ) : Integer
2237: Function RectIncludesPoint( const R : TRect; const Pt : TPoint ) : Boolean
2238: Function RectIncludesRect( const R1, R2 : TRect ) : Boolean
2239: Function RectIntersection( const R1, R2 : TRect ) : TRect
2240: Function RectIntersectRect( const R1, R2 : TRect ) : Boolean
2241: Function RectIsEmpty( const R : TRect ) : Boolean
2242: Function RectIsNull( const R : TRect ) : Boolean
2243: Function RectIsSquare( const R : TRect ) : Boolean
2244: Function RectIsValid( const R : TRect ) : Boolean
2245: Function RectsAreValid( R : array of TRect ) : Boolean
2246: Function RectUnion( const R1, R2 : TRect ) : TRect
2247: Function RectWidth( const R : TRect ) : Integer
2248: Function RedComponent( const Color32 : TColor32 ) : Integer
2249: Function Refresh : Boolean
2250: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2251: Function RegisterConversionFamily( const ADescription : string ) : TConvFamily
2252: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType ) : Boolean;
2253: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType
2254: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2255: Function ReleasedDC(hdwnd: HWND; hdc: HDC): integer;
2256: Function ReleaseHandle : HBITMAP
2257: Function ReleaseHandle : HENHMETAFILE
2258: Function ReleaseHandle : HICON
2259: Function ReleasePalette : HPALETTE
2260: Function RemainderFloat( const X, Y : Float ) : Float
2261: Function Remove( AClass : TClass ) : Integer
2262: Function Remove( AComponent : TComponent ) : Integer
2263: Function Remove( AItem : Integer ) : Integer
2264: Function Remove( AItem : Pointer ) : Pointer
2265: Function Remove( AItem : TObject ) : TObject
2266: Function Remove( AObject : TObject ) : Integer
2267: Function RemoveBackslash( const PathName : string ) : string
2268: Function RemoveDF( aString : String ) : String //removes thousand separator

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2269: Function RemoveDir( Dir : string ) : Boolean
2270: function RemoveDir(const Dir: string): Boolean
2271: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2272: Function RemoveFileExt( const FileName : string ) : string
2273: Function RemoveHeaderEntry( AHeader, AEntry : string ) : string
2274: Function RenameFile( OldName, NewName : string ) : Boolean
2275: function RenameFile(const OldName: string; const NewName: string): Boolean
2276: Function ReplaceStr( const AText, AFromText, AToText : string ) : string
2277: Function ReplaceText( const AText, AFromText, AToText : string ) : string
2278: Function Replicate(c : char;I : longInt) : String;
2279: Function Request : TWebRequest
2280: Function ResemblesText( const AText, AOther : string ) : Boolean
2281: Function Reset : Boolean
2282: function Reset2(mypath: string):string;
2283: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2284: Function ResourceLoad( Restype: TResType; const Name : string; MaskColor : TColor ) : Boolean
2285: Function Response : TWebResponse
2286: Function ResumeSupported : Boolean
2287: Function RETHINKHOTKEYS : BOOLEAN
2288: Function RETHINKLINES : BOOLEAN
2289: Function Retrieve( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2290: Function RetrieveCurrentDir : string
2291: Function RetrieveDeltas( const cdsArray : array of TClientDataset ) : Variant
2292: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2293: Function RetrieveMailBoxSize : integer
2294: Function RetrieveMsgSize( const MsgNum : Integer ) : Integer
2295: Function RetrieveProviders( const cdsArray : array of TClientDataset ) : Variant
2296: Function RetrieveRaw( const MsgNum : Integer; const Dest : TStrings ) : boolean
2297: Function ReturnMIMEType( var MediaType, EncType : String ) : Boolean
2298: Function ReverseBits( Value : Byte) : Byte;
2299: Function ReverseBits1( Value : Shortint) : Shortint;
2300: Function ReverseBits2( Value : Smallint) : Smallint;
2301: Function ReverseBits3( Value : Word) : Word;
2302: Function ReverseBits4( Value : Cardinal) : Cardinal;
2303: Function ReverseBits4( Value : Integer) : Integer;
2304: Function ReverseBits5( Value : Int64) : Int64;
2305: Function ReverseBytes( Value : Word) : Word;
2306: Function ReverseBytes1( Value : Smallint) : Smallint;
2307: Function ReverseBytes2( Value : Integer) : Integer;
2308: Function ReverseBytes3( Value : Cardinal) : Cardinal;
2309: Function ReverseBytes4( Value : Int64) : Int64;
2310: Function ReverseString( const AText : string ) : string
2311: Function ReversedDNSLookup(const IPAddrs:String;DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
2312: Function Revert : HRESULT
2313: Function RGB(R,G,B: Byte): TColor;
2314: Function RGB2GR( const Color : TColor) : TColor
2315: Function RGB2TColor( R, G, B : Byte) : TColor
2316: Function RGBToWebColorName( RGB : Integer) : string
2317: Function RGBToWebColorStr( RGB : Integer) : string
2318: Function RgbToHtml( Value : TColor) : string
2319: Function HtmlToRgb(const Value: string): TColor;
2320: Function RightStr( const AStr : String; Len : Integer) : String
2321: Function RightStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
2322: Function RightStr( const AText : WideString; const ACount : Integer) : WideString;
2323: Function ROL( AVal : LongWord; AShift : Byte) : LongWord
2324: Function ROR( AVal : LongWord; AShift : Byte) : LongWord
2325: Function RotatePoint( Point : TFloPoint; const Center : TFloPoint; const Angle : Float) : TFloPoint
2326: function RotatePoint(Point : TFloPoint; const Center: TFloPoint; const Angle: Double): TFloPoint;
2327: Function Round(e : Extended) : Longint;
2328: Function Round64(e: extended): Int64;
2329: Function RoundAt( const Value : string; Position : SmallInt) : string
2330: type TRoundToRange = -37..37; TRoundToEXRangeExtended = -20..20;
2331: Function RoundTo(const AValue: Extended; const ADigit: TRoundToEXRangeExtended): Extended;'";
2332: Function SimpleRoundTo(const AValue: Extended; const ADigit: TRoundToRange): Extended;'";
2333: Function RoundFrequency( const Frequency : Integer) : Integer
2334: Function RoundInt( Value : Integer; StepSize : Integer) : Integer
2335: Function RoundPoint( const X, Y : Double) : TPoint
2336: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double) : TRect
2337: Function RowCount : Integer
2338: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant
2339: Function RowRequest( Row : OleVariant; Options : TFetchOptions) : OleVariant
2340: Function RPos( const ASub, AIn : String; AStart : Integer) : Integer
2341: Function RRot( const Value : Byte; const Count : TBitRange) : Byte;
2342: Function RRot1( const Value : Word; const Count : TBitRange) : Word;
2343: Function RRot2( const Value : Integer; const Count : TBitRange) : Integer;
2344: Function RunDLL32(const ModuleNa,FuncName,CmdLine:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean
2345: Function RunningProcessesList( const List : TStrings; FullPath : Boolean) : Boolean
2346: Function RunByteCode(Bytecode: AnsiString; out RuntimeErrors: AnsiString): Boolean;'";
2347: Function RunCompiledScript2(Bytecode: AnsiString; out RuntimeErrors: AnsiString): Boolean;'";
2348: Function S_AddBackSlash( const ADirName : string ) : string
2349: Function S_AllTrim( const cStr : string ) : string
2350: Function S_AtRepl( const cAT, cStr, cRepl : string ) : string
2351: Function S_Cut( const cStr : string; const iLen : integer ) : string
2352: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer) : integer
2353: Function S_DirExists( const ADir : string ) : Boolean
2354: Function S_Empty( const cStr : string ) : boolean
2355: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer) : string
2356: Function S_LargeFontsActive : Boolean

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2357: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer) : Extended
2358: Function S_LTrim( const cStr : string) : string
2359: Function S_ReadNextTextLineFromStream( stream : TStream) : string
2360: Function S_RepeatChar( const iLen : integer; const AChar : Char) : String
2361: Function S_ReplFirst( const cAT, cStr, cRepl : string) : string
2362: Function S_RoundDecimal( AValue : Extended; APlaces : Integer) : Extended
2363: Function S_RTrim( const cStr : string) : string
2364: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer) : string
2365: //Type TS_ShellExecuteCmd = (seCmdOpen, seCmdPrint, seCmdExplore);
2366: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd) : string
2367: Function S_Space( const iLen : integer) : String
2368: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2369: Function S_StrBlanksCuttooLong( const cStr : string; const iLen : integer) : string
2370: Function S_StrCRC32( const Text : string) : LongWORD
2371: Function S_StrDecrypt96( const InString : string; StartKey, AddKey : Integer) : string
2372: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2373: Function S_StringtoUTF_8( const AString : string) : string
2374: Function S_StrLBanks( const cStr : string; const iLen : integer) : string
2375: function S_StrToReal(const cStr: string; var R: Double): Boolean
2376: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean) : boolean
2377: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean) : string
2378: Function S_UTF_8ToString( const AString : string) : string
2379: Function S_WBox( const AText : string) : integer
2380: Function SameDate( const A, B : TDateTime) : Boolean
2381: function SameDate( const A, B : TDateTime): Boolean;
2382: Function SameDateTime( const A, B : TDateTime) : Boolean
2383: function SameDateTime( const A, B: TDateTime): Boolean;
2384: Function SameFileName( S1, S2 : string) : Boolean
2385: Function SameText( S1, S2 : string) : Boolean
2386: function SameText( const S1: string; const S2: string): Boolean)
2387: Function SameTime( const A, B : TDateTime) : Boolean
2388: function SameTime( const A, B: TDateTime): Boolean;
2389: function SameValue( const A, B : Extended; Epsilon: Extended): Boolean //overload;
2390: function SameValue1( const A, B: Double; Epsilon: Double): Boolean //overload;
2391: function SameValue2( const A, B: Single; Epsilon: Single): Boolean //overload;
2392: Function SampleVariance( const X : TDynFloatArray) : Float
2393: Function Sar( const Value : Shortint; const Count : TBitRange) : Shortint;
2394: Function Sar1( const Value : Smallint; const Count : TBitRange) : Smallint;
2395: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2396: Function SaveToFile( const AFileName : TFileName) : Boolean
2397: Function SaveAsExcelFile(aGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2398: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2399: Function ScanF( const aformat: String; const args: array of const): string;
2400: Function SCREENTOCLIENT(POINT:TPOINT):POINT
2401: Function SearchBuf(Buf:PChar; BufLen:Integer; SelStart,SelLength:Integer;SearchString:String;Options: TStringSearchOptions):PChar
2402: Function SearchBuf2(Buf: string;SelStart,SelLength:Integer; SearchString: String;Options:TStringSearchOptions):Integer;
2403: function SearchRecattr: integer;
2404: function SearchRecExcludeAttr: integer;
2405: Function SearchRecFileSize64( const SearchRec : TSearchRec ) : Int64
2406: function SearchRecname: string;
2407: function SearchRecsize: integer;
2408: function SearchRecTime: integer;
2409: Function Sec( const X : Extended) : Extended
2410: Function Secant( const X : Extended) : Extended
2411: Function SecH( const X : Extended) : Extended
2412: Function SecondOf( const AValue : TDateTime) : Word
2413: Function SecondOfTheDay( const AValue : TDateTime) : LongWord
2414: Function SecondOfTheHour( const AValue : TDateTime) : Word
2415: Function SecondOfTheMinute( const AValue : TDateTime) : Word
2416: Function SecondOfTheMonth( const AValue : TDateTime) : LongWord
2417: Function SecondOfTheWeek( const AValue : TDateTime) : LongWord
2418: Function SecondOfTheYear( const AValue : TDateTime) : LongWord
2419: Function SecondsBetween( const ANow, AThen : TDateTime) : Int64
2420: Function SecondSpan( const ANow, AThen : TDateTime) : Double
2421: Function SectionExists( const Section : string) : Boolean
2422: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption) : Boolean
2423: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint) : HResult
2424: function Seek(Offset:LongInt;Origin:Word):LongInt
2425: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2426: Function SelectDirectory1( const Caption : string; const Root : WideString; var Directory : string; Options : TSelectDirExtOpts; Parent : TWInControl) : Boolean;
2427: Function SelectImage( var AFileName : string; const Extensions, Filter : string) : Boolean
2428: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2429: Function SendBuf( var Buf, Count : Integer) : Integer
2430: Function SendCmd( const AOut : string; const AResponse : SmallInt) : SmallInt;
2431: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt) : SmallInt;
2432: Function SendKey( AppName : string; Key : Char) : Boolean
2433: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2434: Function SendStream( AStream : TStream) : Boolean
2435: Function SendStreamThenDrop( AStream : TStream) : Boolean
2436: Function SendText( const S : string) : Integer
2437: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2438: Function SendSerialText(Data: String): cardinal
2439: Function Sent : Boolean
2440: Function ServicesFilePath: string
2441: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer) : TColor32
2442: Function SetBit( const Value : Byte; const Bit : TBitRange) : Byte;

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2443: Function SetBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2444: Function SetBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2445: Function SetBit3( const Value : Word; const Bit : TBitRange) : Word;
2446: Function SetBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2447: Function SetBit4( const Value : Integer; const Bit : TBitRange) : Integer;
2448: Function SetBit5( const Value : Int64; const Bit : TBitRange) : Int64;
2449: Function SetClipboard( NewClipboard : TClipboard) : TClipboard;
2450: Function SetColorBlue( const Color : TColor; const Blue : Byte) : TColor;
2451: Function SetColorFlag( const Color : TColor; const Flag : Byte) : TColor;
2452: Function SetColorGreen( const Color : TColor; const Green : Byte) : TColor;
2453: Function SetColorRed( const Color : TColor; const Red : Byte) : TColor;
2454: Function SetCurrentDir( Dir : string) : Boolean;
2455: function SetCurrentDir(const Dir: string): Boolean;
2456: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2457: Function SetDirCreation( const DirName : string; const DateTime : TDateTime) : Boolean;
2458: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime) : Boolean;
2459: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime) : Boolean;
2460: Function SetDisplayResolution( const XRes, YRes : DWORD) : Longint;
2461: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2462: Function SetEnvironmentVar( const Name, Value : string) : Boolean;
2463: Function SetErrorProc( ErrorProc : TSocketErrorProc) : TSocketErrorProc;
2464: Function SetFileCreation( const FileName : string; const DateTime : TDateTime) : Boolean;
2465: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime) : Boolean;
2466: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime) : Boolean;
2467: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer) : Boolean;
2468: function SETFOCUSDECONTROL(CONTROL:TWINCONTROL):BOOLEAN;
2469: Function SetLocalTime( Value : TDateTime) : boolean;
2470: Function SetPrecisionTolerance( NewTolerance : Float) : Float;
2471: Function SetPrinter( NewPrinter : TPrinter) : TPrinter;
2472: Function SetPrivilege(privilegeName: string; enable: boolean): boolean;
2473: Function SetRGBValue( const Red, Green, Blue : Byte) : TColor;
2474: Function SetSequence( S, Localizar, Substituir : shortstring) : shortstring;
2475: Function SetSize( libNewSize : Longint) : HResult;
2476: Function SetUserObjectFullAccess( hUserObject : THandle) : Boolean;
2477: Function Sgn( const X : Extended) : Integer;
2478: function SHA1(const fileName: string): string;
2479: function SHA256(astr: string; amode: char): string;
2480: function SHA512(astr: string; amode: char): string;
2481: Function ShareMemoryManager : Boolean;
2482: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2483: function Shelleexecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2484: Function ShellExecute3(aFilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2485: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE) : TSHORCUT;
2486: Function SHORTCUTTOTEXT( SHORCUT : TSHORCUT ) : String;
2487: function ShortDateFormat: string;
2488: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
  RTL:Bool;EllipsisWidth:Int):WideString;
2489: function ShortTimeFormat: string;
2490: function SHOWMODAL:INTEGER;
2491: Function ShowModalControl(aControl:TControl;BS:TFormBorderStyle;BI:TBorderIcons;WS:TWindowState;aColor:
  TColor; BW: Integer;Title:String;BeforeShowModal:TNotifyEvent): TModalResult';
2492: Function ShowModalPanel(aPnl:TCustomPanel;Titl:String;ShowCloseIcn:Bool;BefShowModal:TNotifyEvent):TModalResult;
2493: function ShowWindow(C1: HWND; C2: integer): boolean;
2494: procedure ShowMemory //in Dialog;
2495: function ShowMemory2: string;
2496: Function ShutDownOS : Boolean;
2497: Function Signe( const X, Y : Extended) : Extended;
2498: Function Sign( const X : Extended) : Integer;
2499: Function Sin(e : Extended) : Extended;
2500: Function sinc( const x : Double) : Double;
2501: Function SinJ( X : Float) : Float;
2502: Function Size( const AFileName : String) : Integer;
2503: function SizeOf: Longint;
2504: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer;
2505: function SlashSep(const Path, S: String): String;
2506: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended;
2507: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD;
2508: Function SmallPoint(X, Y: Integer): TSmallPoint;
2509: Function Soundex( const AText : string; ALength : TSoundexLength) : string;
2510: Function SoundexCompare( const AText, AOther : string; ALength : TSoundexLength) : Integer;
2511: Function SoundexInt( const AText : string; ALength : TSoundexIntLength) : Integer;
2512: Function SoundexProc( const AText, AOther : string) : Boolean;
2513: Function SoundexSimilar( const AText, AOther : string; ALength : TSoundexLength) : Boolean;
2514: Function SoundexWord( const ATtext : string) : Word;
2515: Function SourcePos : Longint;
2516: function SourcePos:LongInt;
2517: Function Split0( Str : string; const substr : string) : TStringList;
2518: Procedure SplitNameValuePair( const Line : string; var Name, Value : string);
2519: Function SQLRequiresParams( const SQL : WideString) : Boolean;
2520: Function Sqr(e : Extended) : Extended;
2521: Function Sqrt(e : Extended) : Extended;
2522: Function StartIP : String;
2523: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean;
2524: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2525: Function StartOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
2526: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime;
2527: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime;
2528: Function StartOfAYear( const AYear : Word) : TDateTime;

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2529: Function StartOfDay( const AValue : TDateTime ) : TDateTime
2530: Function StartOfMonth( const AValue : TDateTime ) : TDateTime
2531: Function StartOfTheWeek( const AValue : TDateTime ) : TDateTime
2532: Function StartOfTheYear( const AValue : TDateTime ) : TDateTime
2533: Function StartsStr( const ASubText, AText : string ) : Boolean
2534: Function StartsText( const ASubText, AText : string ) : Boolean
2535: Function StartsWith( const ANSIString, APattern : String ) : Boolean
2536: Function StartsWith( const str : string; const sub : string ) : Boolean
2537: Function StartsWithACE( const ABytes : TIdBytes ) : Boolean
2538: Function StatusString( StatusCode : Integer ) : string
2539: Function StdDev( const Data : array of Double ) : Extended
2540: Function Stop : Float
2541: Function StopCount( var Counter : TJclCounter ) : Float
2542: Function StoreColumns : Boolean
2543: Function StrAfter( const sString : string; const sDelimiters : string ) : string;
2544: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char ) : string;
2545: Function StrAlloc( Size : Cardinal ) : PChar
2546: function StrAlloc(Size: Cardinal): PChar)
2547: Function StrBefore( const sString : string; const sDelimiters : string ) : string;
2548: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2549: Function StrBufSize( Str : PChar ) : Cardinal
2550: function StrBufSize(const Str: PChar): Cardinal)
2551: Function StrByteType( Str : PChar; Index : Cardinal ) : TMbcsByteType
2552: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType)
2553: Function StrCat( Dest : PChar; Source : PChar ) : PChar
2554: function StrCat(Dest: PChar; const Source: PChar): PChar
2555: Function StrCharLength( Str : PChar ) : Integer
2556: Function StrComp( Str1, Str2 : PChar ) : Integer
2557: function StrComp(const Str1: PChar; const Str2: PChar): Integer)
2558: Function StrCopy( Dest : PChar; Source : PChar ) : PChar
2559: function StrCopy(Dest: PChar; const Source: PChar): PChar)
2560: Function Stream_to_AnsiString( Source : TStream ) : ansistring
2561: Function Stream_to_Base64( Source : TStream ) : ansistring
2562: Function Stream_to_decimalbytes( Source : TStream ) : string
2563: Function Stream2WideString( oStream : TStream ) : WideString
2564: Function StreamtoAansiString( Source : TStream ) : ansistring
2565: Function StreamToByte( Source : TStream ) : string
2566: Function Stream.ToDecimalbytes( Source : TStream ) : string
2567: Function StreamToOrd( Source : TStream ) : string
2568: Function StreamToString( Source : TStream ) : string
2569: Function StreamToString2( Source : TStream ) : string
2570: Function StreamToString3( Source : TStream ) : string
2571: Function StreamToString4( Source : TStream ) : string
2572: Function StrECopy( Dest : PChar; Source : PChar ) : PChar
2573: Function StrEmpty( const sString : string ) : boolean
2574: Function StrEnd( Str : PChar ) : PChar
2575: function StrEnd(const Str: PChar): PChar)
2576: Function StrFilter( const sString : string; xValidChars : TCharSet ) : string
2577: Function StrFmt( Buffer, Format: PChar; const Args: array of const): PChar)
2578: Function StrGet(var S : String; I : Integer) : Char;
2579: Function StrGet2(S : String; I : Integer) : Char;
2580: Function StrHasPrefix( const sString : string; const sPrefix : string ) : boolean
2581: Function StrHasSuffix( const sString : string; const sSuffix : string ) : boolean
2582: Function StrHtmlDecode( const AStr : String ) : String
2583: Function StrHtmlEncode( const AStr : String ) : String
2584: Function StrToBytes(const Value: String): TBytes;
2585: Function StrIComp( Str1, Str2 : PChar ) : Integer
2586: Function StringOfChar(c : char;I : longInt) : String;
2587: Function StringOfChar2( ch : WideChar; Count : Integer ) : WideString;
2588: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2589: Function StringRefCount(const s: String): integer;
2590: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags ) : string
2591: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags ) : string
2592: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2593: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags ) : string
2594: Function StringToBoolean( const Ps : string ) : Boolean
2595: function StringToColor(const S: string): TColor)
2596: function StringToCursor(const S: string): TCursor;
2597: function StringToGUID(const S: string): TGUID)
2598: Function StringTokenizer( const str : string; const delim : string ) : IStringTokenizer
2599: Function StringToStringArray( const str : string; const delim : string ) : TStringDynArray
2600: Function StringWidth( S : string ) : Integer
2601: Function StrInternetToDate( Value : string ) : TDateTime
2602: Function StrIsDate( const Ps : string ) : Boolean
2603: Function StrIsFloatMoney( const Ps : string ) : Boolean
2604: Function StrIsInteger( const S : string ) : Boolean
2605: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal ) : PChar
2606: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal ) : Integer
2607: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal ) : PChar
2608: Function StrLen( Str : PChar ) : Cardinal
2609: function StrLen(const Str: PChar): Cardinal)
2610: Function StrLessPrefix( const sString : string; const sPrefix : string ) : string
2611: Function StrLessSuffix( const sString : string; const sSuffix : string ) : string
2612: Function StrLIComp( Str1, Str2 : PChar; MaxLen : Cardinal ) : Integer
2613: Function StrLower( Str : PChar ) : PChar
2614: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal ) : PChar
2615: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar)
2616: Function StrNew( Str : PChar ) : PChar
2617: function StrNew(const Str: PChar): PChar)

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2618: Function StrNextChar( Str : PChar ) : PChar
2619: Function StrPad( const sString : string; const sPad : string; const iLength : integer ) : string
2620: Function StrParse( var sString : string; const sDelimiters : string ) : string;
2621: Function StrParse1( var sString : string; const sDelimiters : string; out cDelimiter : char ) : string;
2622: Function StrPas( Str : PChar ) : string
2623: function StrPas(const Str: PChar): string
2624: Function StrPCopy( Dest : PChar; Source : string ) : PChar
2625: function StrPCopy(Dest: PChar; const Source: string): PChar
2626: Function StrPLCopy( Dest : PChar; Source : string; MaxLen : Cardinal ) : PChar
2627: Function StrPos( Str1, Str2 : PChar ) : PChar
2628: Function StrScan(const Str: PChar; Chr: Char): PChar)
2629: Function StrRScan(const Str: PChar; Chr: Char): PChar)
2630: Function StrToBcd( const AValue : string ) : TBCD
2631: Function StrToBool( S : string ) : Boolean
2632: Function StrToBoolDef( S : string; Default : Boolean ) : Boolean
2633: Function StrToCard( const AStr : String ) : Cardinal
2634: Function StrToConv( AText : string; out AType : TConvType ) : Double
2635: Function StrToCurr( S : string ) : Currency
2636: function StrToCurr(const S: string): Currency
2637: Function StrToCurrDef( S : string; Default : Currency ) : Currency;
2638: Function StrToDate( S : string ) : TDateTime;
2639: function StrToDate(const s: string): TDateTime;
2640: Function StrToDateDef( S : string; Default : TDateTime ) : TDateTime;
2641: Function StrToDateTime( S : string ) : TDateTime;
2642: function StrToDateTime(const S: string): TDateTime
2643: Function StrToDateTypeDef( S : string; Default : TDateTime ) : TDateTime;
2644: Function StrToDay( const ADay : string ) : Byte
2645: Function StrToFloat( S : string ) : Extended;
2646: function StrToFloat(s: String): Extended;
2647: Function StrToFloatDef( S : string; Default : Extended ) : Extended;
2648: function StrToFloatDef(const S: string; const Default: Extended): Extended
2649: Function StrToFloat( S : string ) : Extended;
2650: Function StrToFloat2( S : string; FormatSettings : TFormatSettings ) : Extended;
2651: Function StrToFloatDef( S : string; Default : Extended ) : Extended;
2652: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2653: Function StrToCurr( S : string ) : Currency;
2654: Function StrToCurr2( S : string; FormatSettings : TFormatSettings ) : Currency;
2655: Function StrToCurrDef( S : string; Default : Currency ) : Currency;
2656: Function StrToCurrDef2( S : string; Default : Currency; FormatSettings : TFormatSettings ) : Currency;
2657: Function StrToTime2( S : string; FormatSettings : TFormatSettings ) : TDateTime;
2658: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2659: Function StrToTimeDef2( S : string; Default : TDateTime; FormatSettings:TFormatSettings):TDateTime;
2660: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2661: Function StrToDateTime( S : string ) : TDateTime;
2662: Function StrToDateTime2( S : string; FormatSettings : TFormatSettings ) : TDateTime;
2663: Function StrToDateTimeDef( S : string; Default : TDateTime ) : TDateTime;
2664: Function StrToFloatRegionalIndependent(aValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2665: Function StrToInt( S : string ) : Integer
2666: function StrToInt(s: String): Longint;
2667: Function StrToInt64( S : string ) : Int64
2668: function StrToInt64(s: String): int64;
2669: Function StrToInt64Def( S : string; Default : Int64 ) : Int64
2670: function StrToInt64Def(const S: string; const Default: Int64):Int64)
2671: Function StrToIntDef( S : string; Default : Integer ) : Integer
2672: function StrToIntDef(const S: string; Default: Integer): Integer
2673: function StrToIntDef(s: String; def: Longint): Longint;
2674: Function StrToMonth( const AMonth : string ) : Byte
2675: Function StrToTime( S : string ) : TDateTime;
2676: function StrToTime(const S: string): TDateTime)
2677: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2678: Function StrToWord( const Value : String ) : Word
2679: Function StrToXmlDate( const DateStr : string; const Format : string ) : string
2680: Function StrToXmlDateDef( const DateStr : string; const Format : string ) : string
2681: Function StrToXmlTime( const TimeStr : string; const Format : string ) : string
2682: Function StrUpper( Str : PChar ) : PChar
2683: Function StuffString( const AText : string; AStart, ALen : Cardinal; const ASubText : string ) : string
2684: Function Sum( const Data : array of Double ) : Extended
2685: Function SumFloatArray( const B : TDynFloatArray ) : Float
2686: Function SumInt( const Data : array of Integer ) : Integer
2687: Function SumOfSquares( const Data : array of Double ) : Extended
2688: Function SumPairProductFloatArray( const X, Y : TDynFloatArray ) : Float
2689: Function SumSquareDiffFloatArray( const B : TDynFloatArray; Diff : Float ) : Float
2690: Function SumSquareFloatArray( const B : TDynFloatArray ) : Float
2691: Function Supports( CursorOptions : TCursorOptions ) : Boolean
2692: Function SupportsClipboardFormat( AFormat : Word ) : Boolean
2693: Function SwapWord(w : word): word)
2694: Function SwapInt(i : integer): integer)
2695: Function SwapLong(L : longint): longint)
2696: Function Swap(i : integer): integer)
2697: Function SYDDDepreciation( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
2698: Function SyncTime : Boolean
2699: Function SysErrorMessage( ErrorCode : Integer ) : string
2700: function SysErrorMessage(ErrorCode: Integer): string)
2701: Function SystemTimeToDateTime( SystemTime : TSystemTime ) : TDateTime
2702: function SystemTimeToDateTime(const SystemTime: TSystemTime): TDateTime;
2703: Function SysStringLen(const S: WideString): Integer; stdcall;
2704: Function TabRect( Index : Integer ) : TRect
2705: Function Tan( const X : Extended ) : Extended
2706: Function TaskMessageDlg(const Title,
Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;

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2707: Function TaskMessageDlg1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
2708: HelpCtx : Longint; DefaultButton : TMsgDlgBtn) : Integer;
2709: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
2710: HelpCtx : Longint; X, Y : Integer) : Integer;
2711: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
2712: HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;
2713: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
2714: HelpCtx : Longint; X, Y : Integer; const HelpFileName : string) : Integer;
2715: Function TestBit( const Value : Byte; const Bit : TBitRange) : Boolean;
2716: Function TestBit2( const Value : Shortint; const Bit : TBitRange) : Boolean;
2717: Function TestBit3( const Value : Smallint; const Bit : TBitRange) : Boolean;
2718: Function TestBit4( const Value : Word; const Bit : TBitRange) : Boolean;
2719: Function TestBit5( const Value : Cardinal; const Bit : TBitRange) : Boolean;
2720: Function TestBit6( const Value : Integer; const Bit : TBitRange) : Boolean;
2721: Function TestBit7( const Value : Int64; const Bit : TBitRange) : Boolean;
2722: Function TestBits( const Value, Mask : Byte) : Boolean;
2723: Function TestBits1( const Value, Mask : Shortint) : Boolean;
2724: Function TestBits2( const Value, Mask : Smallint) : Boolean;
2725: Function TestBits3( const Value, Mask : Word) : Boolean;
2726: Function TestBits4( const Value, Mask : Cardinal) : Boolean;
2727: Function TestBits5( const Value, Mask : Integer) : Boolean;
2728: Function TestBits6( const Value, Mask : Int64) : Boolean;
2729: Function TestFDIVInstruction : Boolean;
2730: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat;
2731: Function TextExtent( const Text : string) : TSize;
2732: function TextHeight(Text: string): Integer;
2733: Function TextIsSame( const A1 : string; const A2 : string) : Boolean;
2734: Function TextStartsWith( const S, SubS : string) : Boolean;
2735: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatValue): Boolean;
2736: Function ConvInteger(i: integer):string;
2737: Function IntegerToText(i : integer):string;
2738: Function TEXTTOSHORTCUT( TEXT : String) : TSHORTCUT;
2739: function TextWidth(Text: string): Integer;
2740: Function ThreadCount : integer;
2741: function ThousandSeparator: char;
2742: Function Ticks : Cardinal;
2743: Function Time : TDateTime;
2744: function Time: TDateTime;
2745: function TimeGetTime: int64;
2746: Function TimeOf( const AValue : TDateTime) : TDateTime;
2747: function TimeSeparator: char;
2748: functionTimeStampToDateTIme(const TimeStamp: TTimeStamp): TDateTime;
2749: Function TimeStampToMSEcs( TimeStamp : TTimeStamp) : Comp;
2750: function TimeStampToMSEcs(const TimeStamp: TTimeStamp): Comp;
2751: Function TimeToStr( DateTime : TDateTime) : string;
2752: function TimeToStr(const DateTime: TDateTime): string;
2753: Function TimeZoneBias : TDateTime;
2754: Function ToCommon( const AValue : Double) : Double;
2755: function ToCommon(const AValue: Double): Double;
2756: Function Today : TDateTime;
2757: Function ToggleBit( const Value : Byte; const Bit : TBitRange) : Byte;
2758: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2759: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2760: Function ToggleBit3( const Value : Word; const Bit : TBitRange) : Word;
2761: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2762: Function ToggleBit5( const Value : Integer; const Bit : TBitRange) : Integer;
2763: Function ToggleBit6( const Value : Int64; const Bit : TBitRange) : Int64;
2764: function TokenComponentIdent:string;
2765: Function TokenFloat : Extended;
2766: function TokenFloat:Extended;
2767: Function TokenInt : Longint;
2768: function TokenInt:LongInt;
2769: Function TokenString : string;
2770: function TokenString:String;
2771: Function TokenSymbolIs( const S : string) : Boolean;
2772: function TokenSymbols(S:string):Boolean;
2773: Function Tomorrow : TDateTime;
2774: Function ToRightOf( const pc : TControl; piSpace : Integer) : Integer;
2775: Function ToString : string;
2776: Function TotalVariance( const Data : array of Double) : Extended;
2777: Function Trace2( AURL : string) : string;
2778: Function TrackMenu( Button : TToolButton) : Boolean;
2779: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN) : INTEGER;
2780: Function TranslateURI( const URI : string) : string;
2781: Function TranslationMatchesLanguages( Exact : Boolean) : Boolean;
2782: Function TransparentStretchBlt( DstDC : HDC; DstX,DstY,DstW,DstH:Integer; SrcDC:HDC;SrcX,SrcY,SrcW,
2783: SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer) : Boolean;
2784: Function Trim( S : string) : string;
2785: Function Trim( S : WideString) : WideString;
2786: Function Trim(s : AnyString) : AnyString;
2787: Function TrimAllOf( ATrim, AText : string) : String;
2788: Function TrimLeft( S : string) : string;
2789: Function TrimLeft( S : WideString) : WideString;
2790: function TrimLeft(const S : string): string;

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2790: Function TrimRight( S : string ) : string;
2791: Function TrimRight( S : WideString ) : WideString;
2792: function TrimRight(const S: string): string
2793: function TrueBoolStrs: array of string
2794: Function Trunc(e : Extended) : Longint;
2795: Function Trunc64(e: extended): Int64;
2796: Function TruncPower( const Base, Exponent : Float ) : Float
2797: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily) : Boolean;
2798: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily ) : Boolean;
2799: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2800: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime ) : Boolean
2801: Function TryEncodeDateMonthWeek(const AY,AMonth,AWeekOfMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean
2802: Function TryEncodeDateTime(const AYear,AMonth,ADay,AHour,AMin,ASec,AMilliSecond:Word; out
  AValue:TDateTime):Boolean
2803: Function TryEncodeDateWeek(const AY,AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean
2804: Function TryEncodeDayOfWeekInMonth(const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out
  AVal:TDateTime):Bool
2805: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2806: Function TryFloatToDate( Value : Extended; AResult : TDateTime ) : Boolean
2807: Function TryJulianToDate( const AValue : Double; out ADate : TDateTime ) : Boolean
2808: Function TryLock : Boolean
2809: Function TryModifiedJulianDateToDate( const AValue : Double; out ADate : TDateTime ) : Boolean
2810: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
  AMilliSecond : Word; out AResult : TDateTime ) : Boolean
2811: Function TryStrToBcd( const AValue : string; var Bcd : TBcd ) : Boolean
2812: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType ) : Boolean
2813: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2814: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2815: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2816: Function TryStrToInt( const S: AnsiString; var I: Integer): Boolean;
2817: Function TryStrToInt64( const S: AnsiString; var I: Int64): Boolean;
2818: function TryStrToBool( const S: string; out Value: Boolean): Boolean;
2819: Function TwoByteToWord( ABytel, AByte2 : Byte) : Word
2820: Function TwoCharToWord( AChar1, AChar2 : Char) : Word
2821: Function TwoToY( const Y : Float ) : Float
2822: Function UCS4StringToWideString( const S : UCS4String ) : WideString
2823: Function UIDL( const ADest : TStrings; const AMsgNum : Integer ) : Boolean
2824: function Unassigned: Variant;
2825: Function UndoLastChange( FollowChange : Boolean ) : Boolean
2826: function UniCodeToStr(Value: string): string;
2827: Function UnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean
2828: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean
2829: Function UnixDateToDelphiDateTime( UnixDateTime : Cardinal ) : TDateTime
2830: Function UnixPathToDosPath( const Path : string ) : string
2831: Function UnixToDate( const AValue : Int64) : TDateTime
2832: function UnixToDate(U: Int64): TDateTime;
2833: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint ) : HResult
2834: Function UnlockResource( ResData : HGLOBAL ) : LongBool
2835: Function UnlockVolume( var Handle : THandle) : Boolean
2836: Function UnMaskString( Mask, Value : String ) : String
2837: function UpCase(ch : Char ) : Char;
2838: Function UpCaseFirst( const AStr : string ) : string
2839: Function UpCaseFirstWord( const AStr : string ) : string
2840: Function UpdateAction( Action : TBasicAction ) : Boolean
2841: Function UpdateKind : TUpdateKind
2842: Function UPDATESTATUS : TUPDATESTATUS
2843: Function UpperCase( S : string ) : string
2844: Function Uppercase(s : AnyString) : AnyString;
2845: Function URLDecode( ASrc : string ) : string
2846: Function URLEncode( const ASrc : string ) : string
2847: Function UseRightToLeftAlignment : Boolean
2848: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment ) : Boolean
2849: Function UseRightToLeftReading : Boolean
2850: Function UTF8CharLength( Lead : Char ) : Integer
2851: Function UTF8CharSize( Lead : Char ) : Integer
2852: Function UTF8Decode( const S : UTF8String ) : WideString
2853: Function UTF8Encode( const WS : WideString ) : UTF8String
2854: Function UTF8LowerCase( const S : UTF8String ) : UTF8String
2855: Function Utf8ToAnsi( const S : UTF8String ) : string
2856: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer ) : string
2857: Function UTF8UpperCase( const S : UTF8String ) : UTF8String
2858: Function ValidFieldIndex( FieldIndex : Integer ) : Boolean
2859: Function ValidParentForm(control: TControl): TForm
2860: Function Value : Variant
2861: Function ValueExists( const Section, Ident : string ) : Boolean
2862: Function ValueOf( const Key : string ) : Integer
2863: Function ValueInSet(AValue: Variant; ASet: Variant): Boolean;
2864: Function VALUEOFKEY( const AKEY : VARIANT ) : VARIANT
2865: Function VarArrayFromStrings( Strings : TStrings ) : Variant
2866: Function VarArrayFromWideStrings( Strings : TWideStrings ) : Variant
2867: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2868: Function VarFMTBcd : TVarType
2869: Function VarFMTBcdCreate1 : Variant;
2870: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word ) : Variant;
2871: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word ) : Variant;
2872: Function VarFMTBcdCreate4( const ABcd : TBcd ) : Variant;
2873: Function Variance( const Data : array of Double ) : Extended
2874: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant
2875: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant

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2876: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant
2877: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
2878: Function VariantGetElement1( const V : Variant; il, i2 : integer ) : Variant;
2879: Function VariantGetElement2( const V : Variant; il, i2, i3 : integer ) : Variant;
2880: Function VariantGetElement3( const V : Variant; il, i2, i3, i4 : integer ) : Variant;
2881: Function VariantGetElement4( const V : Variant; il, i2, i3, i4, i5 : integer ) : Variant;
2882: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant
2883: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant
2884: Function VariantNeg( const V1 : Variant ) : Variant
2885: Function VariantNot( const V1 : Variant ) : Variant
2886: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant
2887: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant
2888: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant
2889: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant
2890: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant
2891: function VarIsEmpty(const V: Variant): Boolean;
2892: Function VarIsFMTBcd( const AValue : Variant ) : Boolean;
2893: function VarIsNull(const V: Variant): Boolean;
2894: Function VarToBcd( const AValue : Variant ) : TBcd
2895: function VarType(const V: Variant): TVarType;
2896: Function VarType( const V : Variant ) : TVarType
2897: Function VarAsType( const V : Variant; AVarType : TVarType ) : Variant
2898: Function VarIsType( const V : Variant; AVarType : TVarType ) : Boolean;
2899: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType ) : Boolean;
2900: Function VarIsByRef( const V : Variant ) : Boolean
2901: Function VarIsEmpty( const V : Variant ) : Boolean
2902: Procedure VarCheckEmpty( const V : Variant )
2903: Function VarIsNull( const V : Variant ) : Boolean
2904: Function VarIsClear( const V : Variant ) : Boolean
2905: Function VarIsCustom( const V : Variant ) : Boolean
2906: Function VarIsOrdinal( const V : Variant ) : Boolean
2907: Function VarIsFloat( const V : Variant ) : Boolean
2908: Function VarIsNumeric( const V : Variant ) : Boolean
2909: Function VarIsStr( const V : Variant ) : Boolean
2910: Function VarToStr( const V : Variant ) : string
2911: Function VarToStrDef( const V : Variant; const ADefault : string ) : string
2912: Function VarToWideStr( const V : Variant ) : WideString
2913: Function VarToWideStrDef( const V : Variant; const ADefault : WideString ) : WideString
2914: Function VarToDateTimE( const V : Variant ) : TDateTimE
2915: Function VarFromDateTimE( const DateTimE : TDateTimE ) : Variant
2916: Function VarInRange( const AValue, AMin, AMax : Variant ) : Boolean
2917: Function VarEnsureRange( const AValue, AMin, AMax : Variant ) : Variant
2918: TVariantRelationship', '( vrEqual, vrLessThan, vrGreaterThan, vrNotEqual )
2919: Function VarSameValue( const A, B : Variant ) : Boolean
2920: Function VarCompareValue( const A, B : Variant ) : TVariantRelationship
2921: Function VarIsEmptyParam( const V : Variant ) : Boolean
2922: Function VarIsError( const V : Variant; out AResult : HRESULT ) : Boolean;
2923: Function VarIsError1( const V : Variant ) : Boolean;
2924: Function VarAsError( AResult : HRESULT ) : Variant
2925: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant )
2926: Function VarIsArray( const A : Variant ) : Boolean;
2927: Function VarIsArrayL( const A : Variant; AResolveByRef : Boolean ) : Boolean;
2928: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType ) : Variant
2929: Function VarArrayOf( const Values : array of Variant ) : Variant
2930: Function VarArrayRef( const A : Variant ) : Variant
2931: Function VarTypeisValidArrayType( const AVarType : TVarType ) : Boolean
2932: Function VarTypeisValidElementType( const AVarType : TVarType ) : Boolean
2933: Function VarArrayDimCount( const A : Variant ) : Integer
2934: Function VarArrayLowBound( const A : Variant; Dim : Integer ) : Integer
2935: Function VarArrayHighBound( const A : Variant; Dim : Integer ) : Integer
2936: Function VarArrayLock( const A : Variant ) : __Pointer
2937: Procedure VarArrayUnlock( const A : Variant )
2938: Function VarArrayGet( const A : Variant; const Indices : array of Integer ) : Variant
2939: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer )
2940: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer )
2941: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer )
2942: Function Unassigned : Variant
2943: Function Null : Variant
2944: Function VectorAdd( const V1, V2 : TFloaTPoint ) : TFloaTPoint
2945: function VectorAdd(const V1,V2: TFloaTPoint): TFloaTPoint;
2946: Function VectorDot( const V1, V2 : TFloaTPoint ) : Double
2947: function VectorDot(const V1,V2: TFloaTPoint): Double;
2948: Function VectorLengthSqr( const V : TFloaTPoint ) : Double
2949: function VectorLengthSqr(const V: TFloaTPoint): Double;
2950: Function VectorMult( const V : TFloaTPoint; const s : Double ) : TFloaTPoint
2951: function VectorMult(const V: TFloaTPoint; const s: Double): TFloaTPoint;
2952: Function VectorSubtract( const V1, V2 : TFloaTPoint ) : TFloaTPoint
2953: function VectorSubtract(const V1,V2: TFloaTPoint): TFloaTPoint;
2954: Function Verify( AUserName : String ) : String
2955: Function Versine( X : Float ) : Float
2956: function VersionCheck: boolean;
2957: function VersionCheckAct: string;
2958: Function VersionLanguageId( const LangIdRec : TLangIdRec ) : string
2959: Function VersionLanguageName( const LangId : Word ) : string
2960: Function VersionResourceAvailable( const FileName : string ) : Boolean
2961: Function Visible : Boolean
2962: function VolumeID(DriveChar: Char): string
2963: Function WaitFor( const AString : string ) : string
2964: Function WaitFor( const TimeOut : Cardinal ) : TJclWaitResult

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2965: Function WaitFor1 : TWaitResult;
2966: Function WaitForData( Timeout : Longint ) : Boolean
2967: Function WebColorNameToColor( WebColorName : string ) : TColor
2968: Function WebColorStrToColor( WebColor : string ) : TColor
2969: Function WebColorToRGB( WebColor : Integer ) : Integer
2970: Function wGet(aURL, afile: string): boolean;
2971: Function wGet2(aURL, afile: string): boolean; //without file open
2972: Function wGetX(aURL, afile: string): boolean;
2973: Function wGetX2(aURL, afile: string): boolean; //without file open
2974: Function WebGet(aURL, afile: string): boolean;
2975: Function WebExists: boolean; //alias to isinternet
2976: Function WeekOf( const AValue : TDateTime ) : Word
2977: Function WeekOfTheMonth( const AValue : TDateTime ) : Word;
2978: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word ) : Word;
2979: Function WeekOfTheYear( const AValue : TDateTime ) : Word;
2980: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word ) : Word;
2981: Function WeeksBetween( const ANow, AThen : TDateTime ) : Integer
2982: Function WeeksInAYear( const AYear : Word ) : Word
2983: Function WeeksInYear( const AValue : TDateTime ) : Word
2984: Function WeekSpan( const ANow, ATThen : TDateTime ) : Double
2985: Function WideAdjustLineBreaks( const S: WideString; Style : TTextLineStyle ) : WideString
2986: Function WideCat( const x, y : WideString ) : WideString
2987: Function WideCompareStr( S1, S2 : WideString ) : Integer
2988: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2989: Function WideCompareText( const S1: WideString; const S2: WideString): Integer
2990: function WideCopy( const src : WideString; index, count : Integer ) : WideString
2992: Function WideDequotedStr( const S : WideString; AQuote : WideChar ) : WideString
2993: Function WideEqual( const x, y : WideString ) : Boolean
2994: function WideFormat( const Format: WideString; const Args: array of const): WideString)
2995: Function WideGreater( const x, y : WideString ) : Boolean
2996: Function WideLength( const src : WideString ) : Integer
2997: Function WideLess( const x, y : WideString ) : Boolean
2998: Function WideLowerCase( S : WideString ) : WideString
2999: function WideLowerCase(const S: WideString): WideString)
3000: Function WidePos( const src, sub : WideString ) : Integer
3001: Function WideQuotedStr( const S : WideString; Quote : WideChar ) : WideString
3002: Function WideReplaceStr( const AText, AFromText, AToText : WideString ) : WideString
3003: Function WideReplaceText( const AText, AFromText, AToText : WideString ) : WideString
3004: Function WideSameStr( S1, S2 : WideString ) : Boolean
3005: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
3006: Function WideSameText( S1, S2 : WideString ) : Boolean
3007: function WideSameText( const S1: WideString; const S2: WideString): Boolean
3008: Function WideStringReplace( const S,OldPattern,NewPattern: WideString; Flags: TReplaceFlags): WideString
3009: Function WideStringToUCS4String( const S : WideString ) : UCS4String
3010: Function WideUpperCase( S : WideString ) : WideString
3011: Function Win32BackupFile( const FileName : string; Move : Boolean ) : Boolean
3012: function Win32Check(RetVal: boolean): boolean
3013: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
3014: Function Win32RestoreFile( const FileName : string ) : Boolean
3015: Function Win32Type : TIdWin32Type
3016: Function WinColor( const Color32 : TColor32 ) : TColor
3017: function winexec(FileName: pchar; showCmd: integer): integer;
3018: Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3019: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3020: Function WithinPastDays( const ANow, ATThen : TDateTime; const ADays : Integer ) : Boolean
3021: Function WithinPastHours( const ANow, ATThen : TDateTime; const AHours : Int64 ) : Boolean
3022: Function WithinPastMilliseconds( const ANow, ATThen : TDateTime; const AMilliseconds : Int64 ) : Boolean
3023: Function WithinPastMinutes( const ANow, ATThen : TDateTime; const AMinutes : Int64 ) : Boolean
3024: Function WithinPastMonths( const ANow, ATThen : TDateTime; const AMonths : Integer ) : Boolean
3025: Function WithinPastSeconds( const ANow, ATThen : TDateTime; const ASeconds : Int64 ) : Boolean
3026: Function WithinPastWeeks( const ANow, ATThen : TDateTime; const AWeeks : Integer ) : Boolean
3027: Function WithinPastYears( const ANow, ATThen : TDateTime; const AYears : Integer ) : Boolean
3028: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar ) : DWORD
3029: Function WordToStr( const Value : Word ) : String
3030: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint ) : Boolean
3031: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string ) : Boolean
3032: Procedure GetWordGridFormatValues( Proc : TGetStrProc )
3033: Function WorkArea : Integer
3034: Function WrapText( Line : string; MaxCol : Integer ) : string;
3035: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer ) : string;
3036: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint ) : HResult
3037: function Write(Buffer:String;Count:LongInt):LongInt
3038: Function WriteClient( var Buffer, Count : Integer ) : Integer
3039: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean ) : Cardinal
3040: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string ) : Boolean
3041: Function WriteString( const AString : string ) : Boolean
3042: Function WStrGet( var S : AnyString; I : Integer ) : WideChar;
3043: Function wvprintf( Output : PChar; Format : PChar; arglist : va_list ) : Integer
3044: Function wsprintf( Output : PChar; Format : PChar ) : Integer
3045: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string ) : string
3046: Function XmlTimeToStr( const XmlTime : string; const Format : string ) : string
3047: Function XorDecode( const Key, Source : string ) : string
3048: Function XorEncode( const Key, Source : string ) : string
3049: Function XorString( const Key, Src : ShortString ) : ShortString
3050: Function Yield : Bool
3051: Function Yearof( const AValue : TDateTime ) : Word
3052: Function YearsBetween( const ANow, ATThen : TDateTime ) : Integer
3053: Function YearSpan( const ANow, ATThen : TDateTime ) : Double

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3054: Function Yesterday : TDateTime
3055: Function YesNoDialog(const ACaption, AMsg: string): boolean;
3056: Function( const Name : string; Proc : TUUserFunction)
3057: Function using Special_Scholz from 3.8.5.0
3058: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3059: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3060: Function FloatToTime2Dec(value:Extended):Extended;
3061: Function MinToStd(value:Extended):Extended;
3062: Function MinToStdAsString(value:Extended):String;
3063: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
3064: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3065: Function Round2Dec (zahl:Extended):Extended;
3066: Function GetAngle(x,y:Extended):Double;
3067: Function AddAngle(a1,a2:Double):Double;
3068:
3069: ****
3070: unit UPSI_StText;
3071: ****
3072: Function TextSeek( var F : TextFile; Target : LongInt) : Boolean
3073: Function TextFileSize( var F : TextFile) : LongInt
3074: Function TextPos( var F : TextFile) : LongInt
3075: Function TextFlush( var F : TextFile) : Boolean
3076:
3077: ****
3078: from JvVCLUtils;
3079: ****
3080: { Windows resources (bitmaps and icons) VCL-oriented routines }
3081: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3082: procedure DrawBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3083: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3084: function MakeBitmap(ResID: PChar): TBitmap;
3085: function MakeBitmapID(ResID: Word): TBitmap;
3086: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3087: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3088: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3089: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
  3090:   HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3091: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3092: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3093: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3094: {$IFDEF WIN32}
3095: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
  3096:   X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3097: {$ENDIF}
3098: function MakeIcon(ResID: PChar): TIcon;
3099: function MakeIconID(ResID: Word): TIcon;
3100: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3101: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3102: {$IFDEF WIN32}
3103: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3104: {$ENDIF}
3105: { Service routines }
3106: procedure NotImplemented;
3107: procedure ResourceNotFound(ResID: PChar);
3108: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3109: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3110: function PaletteColor(Color: TColor): Longint;
3111: function WidthOf(R: TRect): Integer;
3112: function HeightOf(R: TRect): Integer;
3113: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3114: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3115: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3116: procedure Delay(MSecs: Longint);
3117: procedure CenterControl(Control: TControl);
3118: Function PaletteEntries( Palette : HPALETTE) : Integer
3119: Function WindowClassName( Wnd : HWND) : string
3120: Function ScreenWorkArea : TRect
3121: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3122: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3123: Procedure ActivateWindow( Wnd : HWND)
3124: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)
3125: Procedure CenterWindow( Wnd : HWND)
3126: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3127: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3128: Function DialogsToPixelsX( Dlgs : Word) : Word
3129: Function DialogsToPixelsY( Dlgs : Word) : Word
3130: Function PixelsToDialogsX( Pics : Word) : Word
3131: Function PixelsToDialogsY( Pics : Word) : Word
3132: {$IFDEF WIN32}
3133: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3134: function MakeVariant(const Values: array of Variant): Variant;
3135: {$ENDIF}
3136: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3137: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3138: function MsgDlg(const Msg:string; AType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3139: {$IFDEF CBUILDER}
3140: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;

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3141: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3142: {$ELSE}
3143: function FindPrevInstance(const MainFormClass, ATitle: string): HWnd;
3144: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3145: {$ENDIF CBUILER}
3146: function IsForegroundTask: Boolean;
3147: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3148: function GetAveCharSize(Canvas: TCanvas): TPoint;
3149: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3150: procedure FreeUnusedOle;
3151: procedure Beep;
3152: function GetWindowsVersionJ: string;
3153: function LoadDLL(const LibName: string): THandle;
3154: function RegisterServer(const ModuleName: string): Boolean;
3155: {$IFNDEF WIN32}
3156: function IsLibrary: Boolean;
3157: {$ENDIF}
3158: { Gradient filling routine }
3159: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3160: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3161: { String routines }
3162: function GetEnvVar(const VarName: string): string;
3163: function AnsiUpperFirstChar(const S: string): string;
3164: function StringToPChar(var S: string): PChar;
3165: function StrPAalloc(const S: string): PChar;
3166: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3167: function DropT(const S: string): string;
3168: { Memory routines }
3169: function AllocMemo(Size: Longint): Pointer;
3170: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3171: procedure FreeMemo(var fpBlock: Pointer);
3172: function GetMemoSize(fpBlock: Pointer): Longint;
3173: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3174: {$IFNDEF COMPILERS_UP}
3175: procedure FreeAndNil(var Obj);
3176: {$ENDIF}
3177: // from PNGLoader
3178: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer;
3179: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3180: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3181: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3182: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3183: Function IsAnAllResult( const AModalResult : TModalResult ) : Boolean
3184: Function InitWndProc( HWindow : HWnd; Message, WParam : Longint; LParam : Longint ) : Longint
3185: AddConstantN('CTL3D_ALL','LongWord').SetUInt($FFFF);
3186: //Procedure ChangeBiDiModeAlignment( var Alignment : TAложение )
3187: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint ) : Longint
3188: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3189: Procedure SetIMEMode( hWnd : HWnd; Mode : TImeMode)
3190: Procedure SetIMEName( Name : TImeName)
3191: Function Win32NLSEnableIME( hWnd : HWnd; Enable : Boolean) : Boolean
3192: Function Imm32GetContext( hWnd : HWnd ) : HIMC
3193: Function Imm32ReleaseContext( hWnd : HWnd; hImc : HIMC ) : Boolean
3194: Function Imm32GetConversionStatus( hImc : HIMC; var Conversion, Sentence : longword ) : Boolean
3195: Function Imm32SetConversionStatus( hImc : HIMC; Conversion, Sentence : longword ) : Boolean
3196: Function Imm32SetOpenStatus( hImc : HIMC; fOpen : Boolean ) : Boolean
3197: // Function Imm32SetCompositionWindow( hImc : HIMC; lpCompForm : PCOMPOSITIONFORM ) : Boolean
3198: //Function Imm32SetCompositionFont( hImc : HIMC; lpLogFont : PLOGFONTA ) : Boolean
3199: Function Imm32GetCompositionString(hImc:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3200: Function Imm32IsIME( hKl : longword ) : Boolean
3201: Function Imm32NotifyIME( hImc : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3202: Procedure DragDone( Drop : Boolean)
3203:
3204:
3205: //*****added from jvvcutils
3206: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3207: function ReplaceComponentReference(This, NewReference: TComponent; var VarReference: TComponent): Boolean;
3208: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3209: function IsPositiveResult(Value: TModalResult): Boolean;
3210: function IsNegativeResult(Value: TModalResult): Boolean;
3211: function IsAbortResult(const Value: TModalResult): Boolean;
3212: function StripAllFromResult(const Value: TModalResult): TModalResult;
3213: // returns either BrightColor or DarkColor depending on the luminance of AColor
3214: // This function gives the same result (AFAIK) as the function used in Windows to
3215: // calculate the desktop icon text color based on the desktop background color
3216: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3217: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3218:
3219: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3220: const State: TOwnerDrawState; const Text: string; var Width: Integer;
3221: CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3222: var LinkName: string; Scale: Integer = 100); overload;
3223: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3224: const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3225: CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3226: var LinkName: string; Scale: Integer = 100); overload;
3227: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;

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3228:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3229: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3230:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3231:   Scale: Integer = 100): string;
3232: function HTMLPlainText(const Text: string): string;
3233: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3234:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3235: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3236:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3237: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3238: function HTMLPrepareText(const Text: string): string;
3239:
3240: ***** uPSI_JvAppUtils;
3241: Function GetDefaultSection( Component : TComponent ) : string
3242: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean)
3243: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string )
3244: Function GetDefaultIniName : string
3245: //OnGetDefaultIniName , 'TOnGetDefaultIniName';
3246: Function GetDefaultIniRegKey : string
3247: Function FindForm( FormClass : TFormClass ) : TForm
3248: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm
3249: Function ShowDialog( FormClass : TFormClass ) : Boolean
3250: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm
3251: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3252: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3253: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile )
3254: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string )
3255: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string )
3256: Function GetUniquefileNameInDir( const Path, FileNameMask : string ) : string
3257: Function StrToIniStr( const Str : string ) : string
3258: Function IniStrToStr( const Str : string ) : string
3259: Function IniReadString( IniFile : TObject; const Section, Ident, Default : string ) : string
3260: Procedure IniWriteString( IniFile : TObject; const Section, Ident, Value : string )
3261: Function IniReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint
3262: Procedure IniWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint )
3263: Function IniReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean
3264: Procedure IniWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean )
3265: Procedure IniReadSections( IniFile : TObject; Strings : TStrings )
3266: Procedure IniEraseSection( IniFile : TObject; const Section : string )
3267: Procedure IniDeleteKey( IniFile : TObject; const Section, Ident : string )
3268: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint )
3269: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint )
3270: Procedure AppTaskbarIcons( AppOnly : Boolean )
3271: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3272: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3273: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject )
3274: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject )
3275: ***** uPSI_JvDBUtils;
3276: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject
3277: Function IsDataSetEmpty( DataSet : TDataSet ) : Boolean
3278: Procedure RefreshQuery( Query : TDataSet )
3279: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean
3280: Function DataSetSectionName( DataSet : TDataSet ) : string
3281: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObject; const Section : string )
3282: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObject;const Section:string;RestoreVisible:Bool)
3283: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant;
Options: TLocateOptions) : Boolean
3284: Procedure SaveFields( DataSet : TDataSet; IniFile : TIIniFile )
3285: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIIniFile; RestoreVisible : Boolean )
3286: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean )
3287: Function ConfirmDelete : Boolean
3288: Procedure ConfirmDataSetCancel( DataSet : TDataSet )
3289: Procedure CheckRequiredField( Field : TField )
3290: Procedure CheckRequiredFields( const Fields : array of TField )
3291: Function DateToSQL( Value : TDateTime ) : string
3292: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string ) : string
3293: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string ) : string
3294: Function FormatSQLNumericRange(const FieldName:string;LowVal,HighVal,LowEmpty,
HighEmpty:Double;Inclusive:Bool):string
3295: Function StrMaskSQL( const Value : string ) : string
3296: Function FormatSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3297: Function FormatAnsiSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3298: Procedure _DBError( const Msg : string )
3299: Const('TrueExpr','String ''0=0
3300: Const('sdfStandard16','String ''''''mm''/''dd''/''yyyy''''')
3301: Const('sdfStandard32','String ''''''dd/mm/yyyy''''')
3302: Const('sdfOracle','String ''TO_DATE('''dd/mm/yyyy''' , ''DD/MM/YYYY''' )')
3303: Const('sdfInterbase','String ''CAST('''mm''/''dd''/''yyyy''' AS DATE)')
3304: Const('sdfMSSQL','String ''CONVERT(datetime, '''mm''/''dd''/''yyyy''' , 103)')
3305: AddTypeS('Largeint', 'Longint
3306: addTypeS('TIFException', '(ErNoError, erCannotImport, erInvalidType, ErInternalError, '+
3307: 'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3308: 'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEOF, '+
3309: 'erVersionError, ErDivideByZero, ErMathError, erCouldNotCallProc, erOutOfRecordRange, '+
3310: 'erOutOfMemory, erException, erNullPointerException, erNullVariantError, erInterfaceNotSupported, erDerError);
3311: (*-----*)
3312: procedure SIRegister_JclIniFiles(CL: TPSPascalCompiler);
3313: begin
3314:   Function JIniReadBool( const FileName, Section, Line : string ) : Boolean

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3315: Function JIniReadInteger( const FileName, Section, Line : string ) : Integer
3316: Function JIniReadString( const FileName, Section, Line : string ) : string
3317: Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3318: Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3319: Procedure JIniWriteString( const FileName, Section, Line, Value : string )
3320: Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3321: Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3322: end;
3323:
3324: (* === compile-time registration functions === *)
3325: (*-----*)
3326: procedure SIRegister_JclDateTime(CL: TPSPascalCompiler);
3327: begin
3328:   'UnixTimeStart', 'LongInt'( 25569 );
3329:   Function JEncodeDate( const Year : Integer; Month, Day : Word ) : TDateTime
3330:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word );
3331:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word );
3332:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer );
3333:   Function CenturyOfDate( const DateTime : TDateTime ) : Integer
3334:   Function CenturyBaseYear( const DateTime : TDateTime ) : Integer
3335:   Function DayOfDate( const DateTime : TDateTime ) : Integer
3336:   Function MonthOfDate( const DateTime : TDateTime ) : Integer
3337:   Function YearOfDate( const DateTime : TDateTime ) : Integer
3338:   Function JDDayOfTheYear( const DateTime : TDateTime; var Year : Integer ) : Integer;
3339:   Function DayOfTheYear1( const DateTime : TDateTime ) : Integer;
3340:   Function DayOfTheYearToDate( const Year, Day : Integer ) : TDateTime
3341:   Function HourOfTime( const DateTime : TDateTime ) : Integer
3342:   Function MinuteOfTime( const DateTime : TDateTime ) : Integer
3343:   Function SecondOfTime( const DateTime : TDateTime ) : Integer
3344:   Function GetISOYearNumberofDays( const Year : Word ) : Word
3345:   Function IsISOLongYear( const Year : Word ) : Boolean;
3346:   Function IsISOLongYear1( const DateTime : TDateTime ) : Boolean;
3347:   Function ISODayOfWeek( const DateTime : TDateTime ) : Word
3348:   Function JISOWeekNumber( DateTime : TDateTime; var YearOfWeekNumber, WeekDay : Integer ) : Integer;
3349:   Function ISOWeekNumber1( DateTime : TDateTime; var YearOfWeekNumber : Integer ) : Integer;
3350:   Function ISOWeekNumber2( DateTime : TDateTime ) : Integer;
3351:   Function ISOWeekToDateTime( const Year, Week, Day : Integer ) : TDateTime
3352:   Function JIsLeapYear( const Year : Integer ) : Boolean;
3353:   Function IsLeapYear1( const DateTime : TDateTime ) : Boolean;
3354:   Function JDdaysInMonth( const DateTime : TDateTime ) : Integer
3355:   Function Make4DigitYear( Year, Pivot : Integer ) : Integer
3356:   Function JMakeYear4Digit( Year, WindowsYear : Integer ) : Integer
3357:   Function JEasterSunday( const Year : Integer ) : TDateTime // TDosDateTime', 'Integer
3358:   Function JFormatDateTime( Form : string; DateTime : TDateTime ) : string
3359:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64 ) : Boolean;
3360:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime ) : Boolean;
3361:   Function HoursToMsecs( Hours : Integer ) : Integer
3362:   Function MinutesToMsecs( Minutes : Integer ) : Integer
3363:   Function SecondsToMsecs( Seconds : Integer ) : Integer
3364:   Function TimeOfDateToSeconds( DateTime : TDateTime ) : Integer
3365:   Function TimeOfDateToMsecs( DateTime : TDateTime ) : Integer
3366:   Function DateTimeToLocalDateTime( DateTime : TDateTime ) : TDateTime
3367:   Function LocalDateTimeToDate( DateTime : TDateTime ) : TDateTime
3368:   Function DateTimeToDosDateTime( const DateTime : TDateTime ) : TDosDateTime
3369:   Function JDTimeToFileTime( DateTime : TDateTime ) : TFileTime
3370:   Function JDTimeToSystemTime( DateTime : TDateTime ) : TSystemTime;
3371:   Procedure DateTimeToSystemTime1( DateTime : TDateTime; var SysTime : TSystemTime );
3372:   Function LocalDateTimeToFileTime( DateTime : TDateTime ) : FileTime
3373:   Function DosDateTimeToDate( const DosTime : TDosDateTime ) : TDateTime
3374:   Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3375:   Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime );
3376:   Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3377:   Function DosDateTimeToStr( DateTime : Integer ) : string
3378:   Function JFileTimeToDate( const FileTime : TFileTime ) : TDateTime
3379:   Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3380:   Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3381:   Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word );
3382:   Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3383:   Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime );
3384:   Function FileTimeToStr( const FileTime : TFileTime ) : string
3385:   Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3386:   Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3387:   Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime );
3388:   Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3389:   Function CreationDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3390:   Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3391:   Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3392:   TJclUnixTime32', 'Longword
3393:   Function JDTimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3394:   Function JUnixTimeToDate( const UnixTime : TJclUnixTime32 ) : TDateTime
3395:   Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3396:   Function UnixTimeToFile( const AValue : TJclUnixTime32 ) : TFileTime
3397:   Function JNullStamp : TTimeStamp
3398:   Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3399:   Function JEQualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3400:   Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3401:   Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3402:   Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3403:   Function FirstWeekDay1( const Year, Month : Integer ) : Integer;

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3404: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3405: Function LastWeekDayL( const Year, Month : Integer ) : Integer;
3406: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3407: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3408: Function FirstWeekendDayL( const Year, Month : Integer ) : Integer;
3409: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3410: Function LastWeekendDayL( const Year, Month : Integer ) : Integer;
3411: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3412: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3413: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3414: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3415: FindClass('TOBJECT'), 'EJclDateTimeError'
3416: end;
3417:
3418: procedure SIRegister_JclMiscel2(CL: TPSPPascalCompiler);
3419: begin
3420:   Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3421:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3422:   Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3423:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3424:   Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3425:     TJclKillLevel', '( klnormal, klnosignal, kltimout )
3426:   Function ExitWindows( ExitCode : Cardinal ) : Boolean
3427:   Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3428:   Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3429:   Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3430:   Function RebootOS( KillLevel : TJclKillLevel ) : Boolean
3431:   Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3432:   Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3433:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean ):Boolean;;
3434:   Function ShutDownDialog1( const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool ):Bool;
3435:   Function AbortShutdown : Boolean
3436:   Function AbortShutdown1( const MachineName : string ) : Boolean;
3437:     TJclAllowedPowerOperation', '( apohibernate, aposhutdown, aposuspend )
3438:   TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3439:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3440:   FindClass('TOBJECT'), 'EJclCreateProcessError'
3441: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
3442: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar);
3443: // with Add(EJclCreateProcessError) do
3444: end;
3445:
3446:
3447: procedure SIRegister_JclAnsiStrings(CL: TPSPPascalCompiler);
3448: begin
3449:   //''AnsiSigns','Set').SetSet(['-', '+']);
3450:   'C1_UPPER','LongWord( $0001);
3451:   'C1_LOWER','LongWord( $0002);
3452:   'C1_DIGIT','LongWord').SetUInt( $0004);
3453:   'C1_SPACE','LongWord').SetUInt( $0008);
3454:   'C1_PUNCT','LongWord').SetUInt( $0010);
3455:   'C1_CNSTRL','LongWord').SetUInt( $0020);
3456:   'C1_BLANK','LongWord').SetUInt( $0040);
3457:   'C1_XDIGIT','LongWord').SetUInt( $0080);
3458:   'C1_ALPHA','LongWord').SetUInt( $0100);
3459:   AnsiChar', 'Char
3460:   Function StrIsAlpha( const S : AnsiString ) : Boolean
3461:   Function StrIsAlphaNum( const S : AnsiString ) : Boolean
3462:   Function StrIsAlphaNumUnderscore( const S : AnsiString ) : Boolean
3463:   Function StrContainsChars( const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean ) : Boolean
3464:   Function StrConsistsOfNumberChars( const S : AnsiString ) : Boolean
3465:   Function StrIsDigit( const S : AnsiString ) : Boolean
3466:   Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet ) : Boolean
3467:   Function StrSame( const S1, S2 : AnsiString ) : Boolean
3468: //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar ) : AnsiString
3469: Function StrCharPosLower( const S : AnsiString; CharPos : Integer ) : AnsiString
3470: Function StrCharPosUpper( const S : AnsiString; CharPos : Integer ) : AnsiString
3471: Function StrDoubleQuote( const S : AnsiString ) : AnsiString
3472: Function StrEnsureNoPrefix( const Prefix, Text : AnsiString ) : AnsiString
3473: Function StrEnsureNoSuffix( const Suffix, Text : AnsiString ) : AnsiString
3474: Function StrEnsurePrefix( const Prefix, Text : AnsiString ) : AnsiString
3475: Function StrEnsureSuffix( const Suffix, Text : AnsiString ) : AnsiString
3476: Function StrEscapedToString( const S : AnsiString ) : AnsiString
3477: Function JStrLower( const S : AnsiString ) : AnsiString
3478: Procedure StrLowerInPlace( var S : AnsiString )
3479: //Procedure StrLowerBuff( S : PAnsiChar )
3480: Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;const ToIndex,FromIndex,Count:Integer );
3481: Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3482: Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3483: Function StrProper( const S : AnsiString ) : AnsiString
3484: //Procedure StrProperBuff( S : PAnsiChar )
3485: Function StrQuote( const S : AnsiString; C : AnsiChar ) : AnsiString
3486: Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3487: Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3488: Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3489: Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar ) : AnsiString
3490: Function StrReplaceChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString
3491: Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString;

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3492: Function StrRepeat( const S : AnsiString; Count : Integer ) : AnsiString
3493: Function StrRepeatLength( const S : AnsiString; const L : Integer ) : AnsiString
3494: Function StrReverse( const S : AnsiString ) : AnsiString
3495: Procedure StrReverseInplace( var S : AnsiString )
3496: Function StrSingleQuote( const S : AnsiString ) : AnsiString
3497: Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet ) : AnsiString
3498: Function StrStringToEscaped( const S : AnsiString ) : AnsiString
3499: Function StrStripNonNumberChars( const S : AnsiString ) : AnsiString
3500: Function StrToHex( const Source : AnsiString ) : AnsiString
3501: Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar ) : AnsiString
3502: Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3503: Function StrTrimCharRight( const S : AnsiString; C : AnsiChar ) : AnsiString
3504: Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3505: Function StrTrimQuotes( const S : AnsiString ) : AnsiString
3506: Function JStrUpper( const S : AnsiString ) : AnsiString
3507: Procedure StrUpperInPlace( var S : AnsiString )
3508: //Procedure StrUpperBuff( S : PAansiChar )
3509: Function StrOemToAnsi( const S : AnsiString ) : AnsiString
3510: Function StrAnsiToOem( const S : AnsiString ) : AnsiString
3511: Procedure StrAddRef( var S : AnsiString )
3512: Function StrAllocSize( const S : AnsiString ) : Longint
3513: Procedure StrDecRef( var S : AnsiString )
3514: //Function StrLen( S : PAansiChar ) : Integer
3515: Function StrLength( const S : AnsiString ) : Longint
3516: Function StrRefCount( const S : AnsiString ) : Longint
3517: Procedure StrResetLength( var S : AnsiString )
3518: Function StrCharCount( const S : AnsiString; C : AnsiChar ) : Integer
3519: Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet ) : Integer
3520: Function StrStrCount( const S, SubS : AnsiString ) : Integer
3521: Function StrCompare( const S1, S2 : AnsiString ) : Integer
3522: Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer ) : Integer
3523: //Function StrFillChar( const C : AnsiChar; Count : Integer ) : AnsiString;
3524: Function StrFillChar1( const C : Char; Count : Integer ) : AnsiString;
3525: Function StrFillChar( const C : Char; Count : Integer ) : string ')';
3526: Function IntFillChar( const I : Integer; Count : Integer ) : string ')';
3527: Function ByteFillChar( const B : Byte; Count : Integer ) : string ')';
3528: Function ArrFillChar( const AC : Char; Count : Integer ) : TCharArray();
3529: Function ArrByteFillChar( const AB : Char; Count : Integer ) : TByteArray;
3530: Function StrFind( const Substr, S : AnsiString; const Index : Integer ) : Integer
3531: //Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString ) : Boolean
3532: Function StrIndex( const S : AnsiString; const List : array of AnsiString ) : Integer
3533: Function StrILastPos( const SubStr, S : AnsiString ) : Integer
3534: Function StrIPos( const SubStr, S : AnsiString ) : Integer
3535: Function StrIsOneOf( const S : AnsiString; const List : array of AnsiString ) : Boolean
3536: Function StrLastPos( const SubStr, S : AnsiString ) : Integer
3537: Function StrMatch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3538: Function StrMatches( const Substr, S : AnsiString; const Index : Integer ) : Boolean
3539: Function StrNIPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3540: Function StrNPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3541: Function StrPrefixIndex( const S : AnsiString; const Prefixes : array of AnsiString ) : Integer
3542: Function StrSearch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3543: //Function StrAfter( const SubStr, S : AnsiString ) : AnsiString
3544: //Function StrBefore( const SubStr, S : AnsiString ) : AnsiString
3545: Function StrBetween( const S : AnsiString; const Start, Stop : AnsiChar ) : AnsiString
3546: Function StrChopRight( const S : AnsiString; N : Integer ) : AnsiString
3547: Function StrLeft( const S : AnsiString; Count : Integer ) : AnsiString
3548: Function StrMid( const S : AnsiString; Start, Count : Integer ) : AnsiString
3549: Function StrRestOf( const S : AnsiString; N : Integer ) : AnsiString
3550: Function StrRight( const S : AnsiString; Count : Integer ) : AnsiString
3551: Function CharEqualNoCase( const C1, C2 : AnsiChar ) : Boolean
3552: Function CharIsAlpha( const C : AnsiChar ) : Boolean
3553: Function CharIsAlphaNum( const C : AnsiChar ) : Boolean
3554: Function CharIsBlank( const C : AnsiChar ) : Boolean
3555: Function CharIsControl( const C : AnsiChar ) : Boolean
3556: Function CharIsDelete( const C : AnsiChar ) : Boolean
3557: Function CharIsDigit( const C : AnsiChar ) : Boolean
3558: Function CharIsLower( const C : AnsiChar ) : Boolean
3559: Function CharIsNumberChar( const C : AnsiChar ) : Boolean
3560: Function CharIsPrintable( const C : AnsiChar ) : Boolean
3561: Function CharIsPunctuation( const C : AnsiChar ) : Boolean
3562: Function CharIsReturn( const C : AnsiChar ) : Boolean
3563: Function CharIsSpace( const C : AnsiChar ) : Boolean
3564: Function CharIsUpper( const C : AnsiChar ) : Boolean
3565: Function CharIsWhiteSpace( const C : AnsiChar ) : Boolean
3566: Function CharType( const C : AnsiChar ) : Word
3567: Function CharHex( const C : AnsiChar ) : Byte
3568: Function CharLower( const C : AnsiChar ) : AnsiChar
3569: Function CharUpper( const C : AnsiChar ) : AnsiChar
3570: Function CharToggleCase( const C : AnsiChar ) : AnsiChar
3571: Function CharPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3572: Function CharLastPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3573: Function CharIPos( const S : AnsiString; C : AnsiChar; const Index : Integer ) : Integer
3574: Function CharReplace( var S : AnsiString; const Search, Replace : AnsiChar ) : Integer
3575: Procedure StrIToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3576: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3577: Function StringsToStr( const List : TStrings; const Sep : AnsiString; const AllowEmptyString : Boolean ) : AnsiString;
3578: Procedure TrimStrings( const List : TStrings; DeleteIfEmpty : Boolean )
3579: Procedure TrimStringsRight( const List : TStrings; DeleteIfEmpty : Boolean )
3580: Procedure TrimStringsLeft( const List : TStrings; DeleteIfEmpty : Boolean )

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3581: Function AddStringToStrings( const S:AnsiString;Strings:TStrings; const Unique:Boolean):Boolean
3582: Function BooleanToStr( B : Boolean ) : AnsiString
3583: Function FileToString( const FileName : AnsiString ) : AnsiString
3584: Procedure StringToFile( const FileName, Contents : AnsiString; Append : Boolean)
3585: Function StrToken( var S : AnsiString; Separator : AnsiChar ) : AnsiString
3586: Procedure StrTokens( const S : AnsiString; const List : TStrings)
3587: Procedure StrTokenToStrings( S : AnsiString; Separator : AnsiChar; const List : TStrings)
3588: //Function StrWord( var S : PAnsiChar; out Word : AnsiString ) : Boolean
3589: Function StrToFloatSafe( const S : AnsiString ) : Float
3590: Function StrToIntSafe( const S : AnsiString ) : Integer
3591: Procedure StrNormIndex( const StrLen : Integer; var Index : Integer; var Count : Integer);
3592: Function ArrayOf( List : TStrings ) : TDynStringArray;
3593:   EJclStringError', 'EJclError
3594: function IsClass(Address: TObject): Boolean;
3595: function IsObject(Address: TObject): Boolean;
3596: // Console Utilities
3597: //function ReadKey: Char;
3598: function IntToStrZeroPad(Value, Count: Integer): AnsiString;
3599: function JclGUIDToString(const GUID: TGUID): string;
3600: function JclStringToGUID(const S: string): TGUID;
3601:
3602: end;
3603:
3604:
3605: ****uPSI_JvDBUtil;
3606: Procedure ExecuteSQLScript(Base:TDataBase; const Script: string; const Commit:TCommit;OnProgress:TOnProgress; const UserData : Integer)
3607: Function GetQueryResult( const DatabaseName, SQL : string ) : Variant
3608: Function GetStoredProcResult( const ADatabaseName, AStoredProcedureName : string; AParams : array of Variant;
3609: const AResultName : string ) : Variant
3610: //Function StrFieldDesc( Field : FLDDesc ) : string
3611: Function Var2Type( V : Variant; const VarType : Integer ) : Variant
3611: Procedure CopyRecord( DataSet : TDataSet )
3612: //Procedure AddReference( Tbl : TTable; RefName : string; RefField : Word; MasterTable : string;
3613: MasterField : Word; ModOp, DelOp : RINTQual )
3613: Procedure AddMasterPassword( Table : TTable; pswd : string )
3614: Procedure PackTable( Table : TTable )
3615: Procedure PackEncryptedTable( Table : TTable; pswd : string )
3616: Function EncodeQuotes( const S : string ) : string
3617: Function Cmp( const S1, S2 : string ) : Boolean
3618: Function SubStr( const S : string; const Index : Integer; const Separator : string ) : string
3619: Function SubStrEnd( const S : string; const Index : Integer; const Separator : string ) : string
3620: Function ReplaceString( S : string; const OldPattern, NewPattern : string ) : string
3621: Procedure GetXYByPos( const S : string; const Pos : Integer; var X, Y : Integer )
3622: ****uPSI_JvJvBDEUtils;*****
3623: //JvBDEUtils
3624: Function CreateDbLocate : TJvLocateObject
3625: //Function CheckOpen( Status : DBIResult ) : Boolean
3626: Procedure FetchAllRecords( DataSet : TBDEDDataSet )
3627: Function TransActive( Database : TDatabase ) : Boolean
3628: Function AsyncQrySupported( Database : TDatabase ) : Boolean
3629: Function GetQuoteChar( Database : TDatabase ) : string
3630: Procedure ExecuteQuery( const DbName, QueryText : string )
3631: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string )
3632: Function FieldLogicMap( FldType : TFieldType ) : Integer
3633: Function FieldSubtypeMap( FldType : TFieldType ) : Integer Value : string; Buffer : Pointer
3634: Function GetAliasPath( const AliasName : string ) : string
3635: Function IsDirectory( const DatabaseName : string ) : Boolean
3636: Function GetBdeDirectory : string
3637: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3638: Function DataSetFindValue( ADataSet : TBDEDDataSet; const Value, FieldName : string ) : Boolean
3639: Function DataSetFindLike( ADataSet : TBDEDDataSet; const Value, FieldName : string ) : Boolean
3640: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3641: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3642: Function DataSetPositionStr( DataSet : TDataSet ) : string
3643: Procedure DataSetShowDeleted( DataSet : TBDEDDataSet; Show : Boolean )
3644: Function CurrentRecordDeleted( DataSet : TBDEDDataSet ) : Boolean
3645: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3646: Function IsBookmarkStable( DataSet : TBDEDDataSet ) : Boolean
3647: Procedure SetIndex( Table : TTable; const IndexFieldNames : string )
3648: Procedure RestoreIndex( Table : TTable )
3649: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const )
3650: Procedure PackTable( Table : TTable )
3651: Procedure ReindexTable( Table : TTable )
3652: Procedure BdeFlushBuffers
3653: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3654: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string )
3655: Procedure DbNotSupported
3656: Procedure ExportDataSet( Source : TBDEDDataSet; DestTable : TTable; TableType : TTableType; const
3657: AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint )
3658: Procedure ExportDataSetEx( Source : TBDEDDataSet; DestTable : TTable; TableType : TTableType; const
3659: AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter,AsciiSeparator:Char;MaxRecordCount:Longint );
3660: ****uPSI_JvDateUtil;
3661: function CurrentYear: Word;
3662: function IsLeapYear(AYear: Integer): Boolean;
3663: function DaysPerMonth(AYear, AMonth: Integer): Integer;

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3664: function FirstDayOfPrevMonth: TDateTime;
3665: function LastDayOfPrevMonth: TDateTime;
3666: function FirstDayOfNextMonth: TDateTime;
3667: function ExtractDay(ADate: TDateTime): Word;
3668: function ExtractMonth(ADate: TDateTime): Word;
3669: function ExtractYear(ADate: TDateTime): Word;
3670: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3671: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3672: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3673: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3674: function ValidDate(ADate: TDateTime): Boolean;
3675: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
3676: function MonthsBetween(Date1, Date2: TDateTime): Double;
3677: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
3678: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
3679: function DaysBetween(Date1, Date2: TDateTime): Longint;
3680: { The same as previous but if Date1 < Date2 result = 0 }
3681: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3682: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3683: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3684: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3685: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3686: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3687: { String to date conversions }
3688: function GetDateFormat(const DateFormat: string): TDateOrder;
3689: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3690: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3691: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3692: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3693: function DefDateFormat(FourDigitYear: Boolean): string;
3694: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3695: -----
3696: ***** JvUtils*****
3697: { GetWordOnPos returns Word from string, S, on the cursor position, P}
3698: function GetWordOnPos(const S: string; const P: Integer): string;
3699: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3700: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3701: { SubStr returns substring from string, S, separated with Separator string}
3702: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3703: { SubStrEnd same to previous function but Index numerated from the end of string }
3704: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3705: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3706: function SubWord(P: PChar; var P2: PChar): string;
3707: { NumberByWord returns the text representation of
3708:   the number, N, in normal russian language. Was typed from Monitor magazine }
3709: function NumberByWord(const N: Longint): string;
3710: // function CurrencyByPos(Value : Currency) : string; GetLineByPos returns Line number, there
3711: //the symbol Pos is pointed. Lines separated with #13 symbol
3712: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3713: { GetXYByPos is same to previous function, but returns X position in line too}
3714: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3715: { ReplaceString searches for all substrings, OldPattern,in a string, S, replaces them with NewPattern }
3716: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3717: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3718: function ConcatSep(const S, S2, Separator: string): string;
3719: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3720: function ConcatLeftSep(const S, S2, Separator: string): string;
3721: { MinimizeString truncs long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3722: function MinimizeString(const S: string; const MaxLen: Integer): string;
3723: { Next 4 function for russian chars transliterating.
3724:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3725: procedure Dos2Win(var S: string);
3726: procedure Win2Dos(var S: string);
3727: function Dos2WinRes(const S: string): string;
3728: function Win2DosRes(const S: string): string;
3729: function Win2Koi(const S: string): string;
3730: { Spaces returns string consists on N space chars }
3731: function Spaces(const N: Integer): string;
3732: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3733: function AddSpaces(const S: string; const N: Integer): string;
3734: { function LastDate for russian users only } { returns date relative to current date: '' }
3735: function LastDate(const Dat: TDateTime): string;
3736: { CurrencyToStr format currency, Cur, using ffCurrency float format}
3737: function CurrencyToStr(const Cur: currency): string;
3738: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3739: function Cmp(const S1, S2: string): Boolean;
3740: { StringCat add S2 string to S1 and returns this string }
3741: function StringCat(var S1: string; S2: string): string;
3742: { HasChar returns True, if Char, Ch, contains in string, S }
3743: function HasChar(const Ch: Char; const S: string): Boolean;
3744: function HasAnyChar(const Chars: string; const S: string): Boolean;
3745: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3746: function CountOfChar(const Ch: Char; const S: string): Integer;
3747: function DefStr(const S: string; Default: string): string;
3748: {**** files routines}
3749: { GetWinDir returns Windows folder name }
3750: function GetWinDir: TFileName;
3751: function GetSysDir: String;
3752: { GetTempDir returns Windows temporary folder name }

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3753: function GetTempDir: string;
3754: { GenTempFileName returns temporary file name on drive, there FileName is placed }
3755: function GenTempFileName(FileName: string): string;
3756: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3757: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3758: { ClearDir clears folder Dir }
3759: function ClearDir(const Dir: string): Boolean;
3760: { DeleteDir clears and than delete folder Dir }
3761: function DeleteDir(const Dir: string): Boolean;
3762: { FileEqvMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3763: function FileEqvMask(FileName, Mask: TFileName): Boolean;
3764: { FileEqvMasks returns True if file, FileName, is compatible with given Masks.
3765:   Masks must be separated with comma (',') }
3766: function FileEqvMasks(FileName, Masks: TFileName): Boolean;
3767: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3768: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3769: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3770: { FileGetInfo fills SearchRec record for specified file attributes}
3771: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3772: { HasSubFolder returns True, if folder APath contains other folders }
3773: function HasSubFolder(APath: TFileName): Boolean;
3774: { IsEmptyFolder returns True, if there are no files or folders in given folder, APath}
3775: function IsEmptyFolder(APath: TFileName): Boolean;
3776: { AddSlash add slash Char to Dir parameter, if needed }
3777: procedure AddSlash(var Dir: TFileName);
3778: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3779: function AddSlash2(const Dir: TFileName): string;
3780: { AddPath returns FileName with Path, if FileName not contain any path }
3781: function AddPath(const FileName, Path: TFileName): TFileName;
3782: function AddPaths(const PathList, Path: string): string;
3783: function ParentPath(const Path: TFileName): TFileName;
3784: function FindInPath(const FileName, PathList: string): TFileName;
3785: function FindInPaths(const fileName,paths: String): String;
3786: {$IFDEF BCB1}
3787: { BrowseForFolder displays Browse For Folder dialog }
3788: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3789: {$ENDIF BCB1}
3790: Function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3791: Function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3792: Function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3793: Function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3794:
3795: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3796: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3797: { HasParam returns True, if program running with specified parameter, Param }
3798: function HasParam(const Param: string): Boolean;
3799: function HasSwitch(const Param: string): Boolean;
3800: function Switch(const Param: string): string;
3801: { ExePath returns ExtractFilePath(ParamStr(0)) }
3802: function ExePath: TFileName;
3803: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3804: function FileTimeToDate(FT: TFileTime): TDateTime;
3805: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3806: {**** Graphic routines }
3807: { TTFontSelected returns True, if True Type font is selected in specified device context }
3808: function TTFontSelected(const DC: HDC): Boolean;
3809: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3810: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3811: {**** Windows routines }
3812: { SetWindowTop put window to top without recreating window }
3813: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3814: {**** other routines }
3815: { KeyPressed returns True, if Key VK is now pressed }
3816: function KeyPressed(VK: Integer): Boolean;
3817: procedure SwapInt(var Int1, Int2: Integer);
3818: function IntPower(Base, Exponent: Integer): Integer;
3819: function ChangeTopException(E: TObject): TObject;
3820: function StrToBool(const S: string): Boolean;
3821: {$IFDEF COMPILER3_UP}
3822: { AnsiStrICmp compares S1 to S2, without case-sensitivity, up to a maximum
  Length of MaxLen bytes. The compare operation is controlled by the
  current Windows locale. The return value is the same as for CompareStr. }
3823: function AnsiStrICmp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3824: function AnsiStrICmp(S1, S2: PChar): Integer;
3825: {$ENDIF}
3826: function Var2Type(V: Variant; const VarType: Integer): Variant;
3827: function VarToInt(V: Variant): Integer;
3828: function VarToFloat(V: Variant): Double;
3829: { following functions are not documented because they are don't work properly , so don't use them }
3830: function ReplaceSokr1(S: string; const Word, Frase: string): string;
3831: { ReplaceSokr1 is full equal to ReplaceString function - only for compatibility - don't use }
3832: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3833: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3834: function GetLongFileName(FileName: string): string;
3835: function GetParameter: string;
3836: function DirectoryExists(const Name: string): Boolean;
3837: { from FileCtrl }
3838: function GetTempDir: string;
3839: function GetTempDir(FileName: string): string;

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3840: procedure ForceDirectories(Dir: string);
3841: {# from FileCtrl}
3842: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3843: function GetComputerID: string;
3844: function GetComputerName: string;
3845: {**** string routines }
3846: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the
   same Index.Also see RAUtilsW.ReplaceSokr1 function }
3847: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3848: { 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 }
3849: function ReplaceSokr(S:string;PosBeg,Len:Integer;Words,Frases:TStrings;var NewSelStart:Integer): string;
3850: { CountOfLines calculates the lines count in a string,each line separated from another with CrLf sequence }
3851: function CountOfLines(const S: string): Integer;
3852: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3853: procedure DeleteEmptyLines(Ss: TStrings);
3854: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
   Note: If strings SQL already contains where-statement, it must be started on begining of any line }
3855: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3856: {**** files routines - }
3857: { ResSaveToFile save resource named as Name with Typ type into file FileName.
   Resource can be compressed using MS Compress program}
3858: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3859: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3860: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3861: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3862: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3863: { 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.}
3864: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3865: { LoadTextFile load text file, FileName, into string }
3866: function LoadTextFile(const FileName: TFileName): string;
3867: procedure SaveTextfile(const FileName: TFileName; const Source: string);
3868: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3869: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3870: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3871: {$IFDEF COMPILER3_UP}
3872: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3873: function TargetFileName(const FileName: TFileName): TFileName;
3874: { return filename ShortCut linked to }
3875: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3876: {$ENDIF COMPILER3_UP}
3877: {**** Graphic routines - }
3878: { LoadIconToImage loads two icons from resource named NameRes,into two image lists ALarge and ASmall}
3879: procedure LoadIconToImage(ALarge, ASmall: TImageList; const NameRes: string);
3880: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3881: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3882: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3883: function RATextOutEx(Canvas:TCanvas; const R,RClip:TRect;const S: string;const CalcHeight:Boolean):Integer;
3884: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3885: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3886: { Cinema draws some visual effect }
3887: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3888: { Roughed fills rect with special 3D pattern }
3889: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3890: { 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 }
3891: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3892: { TextWidth calculate text with for writing using standard desktop font }
3893: function TextWidth(AString: string): Integer;
3894: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3895: function DefineCursor(Identifier: PChar): TCursor;
3896: {**** other routines - }
3897: { FindFormByClass returns first form specified class, FormClass,owned by Application global variable }
3898: function FindFormByClass(FormClass: TFormClass): TForm;
3899: function FindFormByClassName(FormClassName: string): TForm;
3900: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
   having Tag property value, equaled to Tag parameter }
3901: function FindByTag(WinControl:TWinControl;ComponentClass:TComponentClass;const Tag:Integer):TComponent;
3902: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3903: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3904: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3905: function RBTAG(Parent: TWinControl): Integer;
3906: { AppMinimized returns True, if Application is minimized }
3907: function AppMinimized: Boolean;
3908: { MessageBox is Application.MessageBox with string (not PChar) parameters.
   if Caption parameter = '', it replaced with Application.Title }
3909: function MessageBoxJ(const Msg: string; Caption: string;const Flags: Integer): Integer;
3910: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType);
3911: { Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3912: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType);
3913: { Buttons: TMsgDlgButtons; DefButton:TMsgDlgBtn; HelpContext: Integer;Control: TWinControl): Integer;
3914: { Delay stop program execution to MSec msec }
3915: procedure Delay(MSec: Longword);
3916: { CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3917: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3918: procedure EnableMenuItems(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);

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3926: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3927: function PanelBorder(Panel: TCustomPanel): Integer;
3928: function Pixels(Control: TControl; APixels: Integer): Integer;
3929: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3930: procedure Error(const Msg: string);
3931: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3932:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3933:   {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>'}
3934: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3935:   const HideSelColor: Boolean): string;
3936: function ItemHtWidth(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3937:   const HideSelColor: Boolean): Integer;
3938: function ItemHtPlain(const Text: string): string;
3939: { ClearList - clears list of TObject }
3940: procedure ClearList(List: TList);
3941: procedure MemStreamToClipBoard(MemStream: TMemoryStream; const Format: Word);
3942: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3943: { RTTI support }
3944: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3945: function GetPropStr(Obj: TObject; const PropName: string): string;
3946: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3947: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3948: procedure PrepareIniSection(SS: TStrings);
3949: { following functions are not documented because they are don't work properly, so don't use them }
3950: {$IFDEF COMPILER2}
3951: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3952: {$ENDIF}
3953:
3954: procedure SIRegister_JvBoxProcs(CL: TPPascalCompiler);
3955: begin
3956: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3957: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3958: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
3959: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3960: Procedure BoxMoveSelected( List : TWinControl; Items : TStrings)
3961: Procedure BoxSetItem( List : TWinControl; Index : Integer)
3962: Function BoxGetFirstSelection( List : TWinControl) : Integer
3963: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer) : Boolean
3964: end;
3965:
3966: procedure SIRegister_JvCsvParse(CL: TPPascalCompiler);
3967: begin
3968: Const ('MaxInitStrNum','LongInt'( 9));
3969: Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
: array of AnsiString; MaxSplit : Integer) : Integer
3970: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
string; MaxSplit : Integer) : Integer
3971: Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
QuoteChar:AnsiChar;OutStrs:TStrings):Integer;
3972: Function JvAnsiStrStrip( S : AnsiString) : AnsiString
3973: Function JvStrStrip( S : string) : string
3974: Function GetString( var Source : AnsiString; const Separator : AnsiString) : AnsiString
3975: Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar) : AnsiString
3976: Function BuildPathName( const PathName, FileName : AnsiString) : AnsiString
3977: Function StrEatWhiteSpace( const S : string) : string
3978: Function HexToAscii( const S : AnsiString) : AnsiString
3979: Function AsciiToHex( const S : AnsiString) : AnsiString
3980: Function StripQuotes( const S1 : AnsiString) : AnsiString
3981: Function ValidNumericLiteral( S1 : PAnsiChar) : Boolean
3982: Function ValidIntLiteral( S1 : PAansiChar) : Boolean
3983: Function ValidHexLiteral( S1 : PAansiChar) : Boolean
3984: Function HexPCharToInt( S1 : PAansiChar) : Integer
3985: Function ValidStringLiteral( S1 : PAansiChar) : Boolean
3986: Function StripPCharQuotes( S1 : PAansiChar) : AnsiString
3987: Function JvValidIdentifierAnsi( S1 : PAansiChar) : Boolean
3988: Function JvValidIdentifier( S1 : String ) : Boolean
3989: Function JvEndChar( X : AnsiChar ) : Boolean
3990: Procedure JvGetToken( S1, S2 : PAansiChar )
3991: Function IsExpressionKeyword( S1 : PAansiChar ) : Boolean
3992: Function IsKeyword( S1 : PAansiChar ) : Boolean
3993: Function JvValidVarReference( S1 : PAansiChar ) : Boolean
3994: Function GetParenthesis( S1, S2 : PAansiChar ) : Boolean
3995: Procedure JvGetVarReference( S1, S2, SIdx : PAansiChar )
3996: Procedure JvEatWhitespaceChars( S1 : PAansiChar );
3997: Procedure JvEatWhitespaceChars1( S1 : PWideChar );
3998: Function GetTokenCount : Integer
3999: Procedure ResetTokenCount
4000: end;
4001:
4002: procedure SIRegister_JvDBQueryParamsForm(CL: TPPascalCompiler);
4003: begin
4004: SIRegister_TJvQueryParamsDialog(CL);
4005: Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
4006: end;
4007:
4008: ***** JvStringUtil / JvStringUtil;*****
4009: function FindNotBlankCharPos(const S: string): Integer;
4010: function AnsiChangeCase(const S: string): string;

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4011: function GetWordOnPos(const S: string; const P: Integer): string;
4012: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4013: function Cmp(const S1, S2: string): Boolean;
4014: { Spaces returns string consists on N space chars }
4015: function Spaces(const N: Integer): string;
4016: { HasChar returns True, if char, Ch, contains in string, S }
4017: function HasChar(const Ch: Char; const S: string): Boolean;
4018: function HasAnyChar(const Chars: string; const S: string): Boolean;
4019: { SubStr returns substring from string, S, separated with Separator string}
4020: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
4021: { SubStrEnd same to previous function but Index numerated from the end of string }
4022: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4023: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
4024: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
4025: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
4026: { GetXYByPos is same to previous function, but returns X position in line too}
4027: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4028: { AddSlash returns string with added slash char to Dir parameter, if needed }
4029: function AddSlash2(const Dir: TFileName): string;
4030: { AddPath returns FileName with Path, if FileName not contain any path }
4031: function AddPath(const FileName, Path: TFileName): TFileName;
4032: { ExePath returns ExtractFilePath(ParamStr(0)) }
4033: function ExePath: TFileName;
4034: function LoadTextFile(const FileName: TFileName): string;
4035: procedure SaveTextfile(const FileName: TFileName; const Source: string);
4036: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
4037: function ConcatSep(const S, S2, Separator: string): string;
4038: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4039: function FileEquMask(FileName, Mask: TFileName): Boolean;
4040: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4041:   Masks must be separated with comma ('') }
4042: function FileEquMasks(FileName, Masks: TFileName): Boolean;
4043: function StringEndsWith(const Str, SubStr: string): Boolean;
4044: function ExtractFilePath2(const FileName: string): string;
4045: function StrToOem(const AnsiStr: string): string;
4046: { StrToOem translates a string from the Windows character set into the OEM character set. }
4047: function OemToAnsiStr(const OemStr: string): string;
4048: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4049: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
4050: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
4051: function ReplaceStr(const S, Srch, Replace: string): string;
4052: { Returns string with every occurrence of Srch string replaced with Replace string. }
4053: function DelSpace(const S: string): string;
4054: { DelSpace return a string with all white spaces removed. }
4055: function DelChars(const S: string; Chr: Char): string;
4056: { DelChars return a string with all Chr characters removed. }
4057: function DelBSpace(const S: string): string;
4058: { DelBSpace trims leading spaces from the given string. }
4059: function DelESpace(const S: string): string;
4060: { DelESpace trims trailing spaces from the given string. }
4061: function DelRSpace(const S: string): string;
4062: { DelRSpace trims leading and trailing spaces from the given string. }
4063: function DelSpace1(const S: string): string;
4064: { DelSpace1 return a string with all non-single white spaces removed. }
4065: function Tab2Space(const S: string; Numb: Byte): string;
4066: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4067: function NPos(const C: string; S: string; N: Integer): Integer;
4068: { NPos searches for a N-th position of substring C in a given string. }
4069: function MakeStr(C: Char; N: Integer): string;
4070: function MS(C: Char; N: Integer): string;
4071: { MakeStr return a string of length N filled with character C. }
4072: function AddChar(C: Char; const S: string; N: Integer): string;
4073: { AddChar return a string left-padded to length N with characters C. }
4074: function AddCharR(C: Char; const S: string; N: Integer): string;
4075: { AddCharR return a string right-padded to length N with characters C. }
4076: function LeftStr(const S: string; N: Integer): string;
4077: { LeftStr return a string right-padded to length N with blanks. }
4078: function RightStr(const S: string; N: Integer): string;
4079: { RightStr return a string left-padded to length N with blanks. }
4080: function CenterStr(const S: string; Len: Integer): string;
4081: { CenterStr centers the characters in the string based upon the Len specified. }
4082: function CompStr(const S1, S2: string): Integer;
4083: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2,0 if S1 = S2,or 1 if S1>S2. }
4084: function CompText(const S1, S2: string): Integer;
4085: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4086: function Copy2Symb(const S: string; Symb: Char): string;
4087: { Copy2Symb returns a substring of a string S from begining to first character Symb. }
4088: function Copy2SymbDel(var S: string; Symb: Char): string;
4089: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4090: function Copy2Space(const S: string): string;
4091: { Copy2Symb returns a substring of a string S from begining to first white space. }
4092: function Copy2SpaceDel(var S: string): string;
4093: { Copy2SpaceDel returns a substring of a string S from begining to first
4094:   white space and removes this substring from S. }
4095: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4096: { Returns string, with the first letter of each word in uppercase,
4097:   all other letters in lowercase. Words are delimited by WordDelims. }
4098: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4099: { WordCount given a set of word delimiters, returns number of words in S. }

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4100: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4101: { Given a set of word delimiters, returns start position of N'th word in S. }
4102: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4103: function ExtractWordPos(N: Integer; const S:string; const WordDelims:TCharSet;var Pos: Integer): string;
4104: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4105: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4106:   delimiters, return the N'th word in S. }
4107: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4108: { ExtractSubstr given set of word delimiters, returns the substring from S, that started from position Pos. }
4109: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4110: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4111: function QuotedString(const S: string; Quote: Char): string;
4112: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4113: function ExtractQuotedString(const S: string; Quote: Char): string;
4114: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string,
4115:   and reduces pairs of Quote characters within the quoted string to a single character. }
4116: function FindPart(const HelpWilds, InputStr: string): Integer;
4117: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4118: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4119: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4120: function XorString(const Key, Src: ShortString): ShortString;
4121: function XorEncode(const Key, Source: string): string;
4122: function XorDecode(const Key, Source: string): string;
4123: { ** Command line routines ** }
4124: {$IFDEF COMPILER4_UP}
4125: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet;IgnoreCase: Boolean): Boolean;
4126: {$ENDIF}
4127: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4128: { ** Numeric string handling routines ** }
4129: function Numb2USA(const S: string): string;
4130: { Numb2USA converts numeric string S to USA-format. }
4131: function Dec2Hex(N: Longint; A: Byte): string;
4132: function D2H(N: Longint; A: Byte): string;
4133: { Dec2Hex converts the given value to a hexadecimal string representation
4134:   with the minimum number of digits (A) specified. }
4135: function Hex2Dec(const S: string): Longint;
4136: function H2D(const S: string): Longint;
4137: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4138: function Dec2Numb(N: Longint; A, B: Byte): string;
4139: { Dec2Numb converts the given value to a string representation with the
4140:   base equal to B and with the minimum number of digits (A) specified. }
4141: function Numb2Dec(S: string; B: Byte): Longint;
4142: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4143: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4144: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4145: function IntToRoman(Value: Longint): string;
4146: { IntToRoman converts the given value to a roman numeric string representation. }
4147: function RomanToInt(const S: string): Longint;
4148: { RomanToInt converts the given string to an integer value. If the string
4149:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4150: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4151: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4152: ***** JvFileUtil*****
4153: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4154: procedure CopyFileEx(const FileName, DestName:string; OverwriteReadOnly,ShellDialog:Boolean;ProgressControl:
TControl);
4155: procedure MoveFile(const FileName, DestName: TFileName);
4156: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4157: {$IFDEF COMPILER4_UP}
4158: function GetFileSize(const FileName: string): Int64;
4159: {$ELSE}
4160: function GetFileSize(const FileName: string): Longint;
4161: {$ENDIF}
4162: function FileDateTime(const FileName: string): TDateTime;
4163: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4164: function DeleteFiles(const FileMode: string): Boolean;
4165: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4166: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4167: function NormalDir(const DirName: string): string;
4168: function RemoveBackSlash(const DirName: string): string;
4169: function ValidFileName(const FileName: string): Boolean;
4170: function DirExists(Name: string): Boolean;
4171: procedure ForceDirectories(Dir: string);
4172: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4173: { $IFDEF COMPILER4_UP} overload; {$ENDIF}
4174: {$IFDEF COMPILER4_UP}
4175: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4176: {$ENDIF}
4177: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4178: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4179: {$IFDEF COMPILER4_UP}
4180: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4181: {$ENDIF}
4182: function GetTempDir: string;
4183: function GetWindowsDir: string;
4184: function GetSystemDir: string;
4185: function BrowseDirectory(var AFolderPath:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4186: {$IFDEF WIN32}
4187: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;

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4188: function ShortToLongFileName(const ShortName: string): string;
4189: function ShortToLongPath(const ShortName: string): string;
4190: function LongToShortFileName(const LongName: string): string;
4191: function LongToShortPath(const LongName: string): string;
4192: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4193: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4194: {$ENDIF WIN32}
4195: {$IFDEF COMPILER3_UP}
4196: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4197: {$ENDIF}
4198: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4199: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4200: Function CreatePopupCalculator( AOwner : TComponent ) : TWinControl;
4201: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4202:
4203: //*****procedure SIRegister_VarHlpr(CL: TPSPascalCompiler);
4204: Procedure VariantClear( var V : Variant );
4205: Procedure VariantArrayRedim( var V : Variant; High : Integer );
4206: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer );
4207: Procedure VariantCpy( const src : Variant; var dst : Variant );
4208: Procedure VariantAdd( const src : Variant; var dst : Variant );
4209: Procedure VariantSub( const src : Variant; var dst : Variant );
4210: Procedure VariantMul( const src : Variant; var dst : Variant );
4211: Procedure VariantDiv( const src : Variant; var dst : Variant );
4212: Procedure VariantMod( const src : Variant; var dst : Variant );
4213: Procedure VariantAnd( const src : Variant; var dst : Variant );
4214: Procedure VariantOr( const src : Variant; var dst : Variant );
4215: Procedure VariantXor( const src : Variant; var dst : Variant );
4216: Procedure VariantShl( const src : Variant; var dst : Variant );
4217: Procedure VariantShr( const src : Variant; var dst : Variant );
4218: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4219: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4220: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4221: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4222: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4223: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4224: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4225: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4226: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4227: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4228: Function VariantNot( const V1 : Variant ) : Variant;
4229: Function VariantNeg( const V1 : Variant ) : Variant;
4230: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
4231: Function VariantGetElement1( const V : Variant; il, i2 : integer ) : Variant;
4232: Function VariantGetElement2( const V : Variant; il, i2, i3 : integer ) : Variant;
4233: Function VariantGetElement3( const V : Variant; il, i2, i3, i4 : integer ) : Variant;
4234: Function VariantGetElement4( const V : Variant; il, i2, i3, i4, i5 : integer ) : Variant;
4235: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer );
4236: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer );
4237: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer );
4238: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer );
4239: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer );
4240: end;
4241:
4242: *****unit uPSI_JvgUtils;*****
4243: function IsEven(I: Integer): Boolean;
4244: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4245: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4246: procedure SwapInt(var I1, I2: Integer);
4247: function Spaces(Count: Integer): string;
4248: function DupStr(const Str: string; Count: Integer): string;
4249: function DupChar(C: Char; Count: Integer): string;
4250: procedure Msg(const AMsg: string);
4251: function RectWR(R: TRect): Integer;
4252: function RectH(R: TRect): Integer;
4253: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4254: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4255: function IsItFilledBitmap(Bmp: TBitmap): Boolean;
4256: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4257:   Halign: TglHorAlign; Valign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4258: procedure DrawTextInRect(DC: HDC; R: TRect; const Text:string;Style:TglTextStyle;Fnt:TFont;Flags: UINT);
4259: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4260:   Style: TglTextStyle; ADelineated, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor: TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4261: procedure DrawBox(DC:HDC; var R:TRect; Style:TglBoxStyle;BackgrColor: Longint; ATransparent: Boolean);
4262: function DrawBoxEx(DC: HDC; ARect: TRect; Borders: TglSides;
4263:   BevelInner, BevelOuter: TPanelBevel; Bold:Boolean; BackgrColor: Longint; ATransparent: Boolean): TRect;
4264: procedure GradientBox(DC: HDC; R: TRect; Gradient: TJvgGradient; PenStyle, PenWidth: Integer);
4265: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4266: procedure DrawBitmapExt(DC: HDC; { DC - background & result }
4267:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y_in_rect!
4268:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4269:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4270: procedure CreateBitmapExt(DC: HDC; { DC - background & result }
4271:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y_in_rect!
4272:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4273:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4274: procedure BringParentWindowToFront(Wnd: TWinControl);
4275: function GetParentForm(Control: TControl): TForm;

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4276: procedure GetWindowImageFrom(Control: TWinControl; X, Y: Integer; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC)
4277: procedure GetWindowImage(Control: TWinControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4278: procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4279: function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4280: function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4281: procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4282: function CalcMathString(AExpression: string): Single;
4283: function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4284: function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4285: function GetTransparentColor(Bitmap: TBitmap; AutoTrColor: TglAutoTransparentColor): TColor;
4286: procedure TypeStringOnKeyboard(const S: string);
4287: function NextStringGridCell(Grid: TStringGrid): Boolean;
4288: procedure DrawTextExtAligned(Canvas: TCanvas; const Text: string; R: TRect; Alignment: TglAlignment; WordWrap: Boolean);
4289: procedure LoadComponentFromTextFile(Component: TComponent; const FileName: string);
4290: procedure SaveComponentToTextFile(Component: TComponent; const FileName: string);
4291: function ComponentToString(Component: TComponent): string;
4292: procedure StringToComponent(Component: TComponent; const Value: string);
4293: function PlayWaveResource(const ResName: string): Boolean;
4294: function UserName: string;
4295: function ComputerName: string;
4296: function CreateIniFileName: string;
4297: function ExpandString(const Str: string; Len: Integer): string;
4298: function Transliterate(const Str: string; RusToLat: Boolean): string;
4299: function IsSmallFonts: Boolean;
4300: function SystemColorDepth: Integer;
4301: function GetFileTypeJ(const FileName: string): TglFileType;
4302: Function GetFileType(hFile: THandle): DWORD';
4303: function FindControlAtPt(Control: TWinControl; Pt: TPoint; MinClass: TClass): TControl;
4304: function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4305:
4306: { **** Utility routines of unit classes }
4307: function LineStart(Buffer, BufPos: PChar): PChar
4308: function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar): +  

4309: 'Strings: TStrings): Integer
4310: Function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
4311: Procedure RegisterClass(AClass: TPersistentClass)
4312: Procedure RegisterClasses(AClasses: array of TPersistentClass)
4313: Procedure RegisterClassAlias(AClass: TPersistentClass; const Alias: string)
4314: Procedure UnRegisterClass(AClass: TPersistentClass)
4315: Procedure UnRegisterClasses(AClasses: array of TPersistentClass)
4316: Procedure UnRegisterModuleClasses(Module: HMODULE)
4317: Function FindGlobalComponent(const Name: string): TComponent
4318: Function IsUniqueGlobalComponentName(const Name: string): Boolean
4319: Function InitInheritedComponent(Instance: TComponent; RootAncestor: TClass): Boolean
4320: Function InitComponentRes(const ResName: string; Instance: TComponent): Boolean
4321: Function ReadComponentRes(const ResName: string; Instance: TComponent): TComponent
4322: Function ReadComponentResEx(HInstance: THandle; const ResName: string): TComponent
4323: Function ReadComponentResFile(const FileName: string; Instance: TComponent): TComponent
4324: Procedure WriteComponentResFile(const FileName: string; Instance: TComponent)
4325: Procedure GlobalFixupReferences
4326: Procedure GetFixupReferenceNames(Root: TComponent; Names: TStrings)
4327: Procedure GetFixupInstanceNames(Root: TComponent; const ReferenceRootName: string; Names: TStrings)
4328: Procedure RedirectFixupReferences(Root: TComponent; const OldRootName, NewRootName: string)
4329: Procedure RemoveFixupReferences(Root: TComponent; const RootName: string)
4330: Procedure RemoveFixups(Instance: TPersistent)
4331: Function FindNestedComponent(Root: TComponent; const NamePath: string): TComponent
4332: Procedure BeginGlobalLoading
4333: Procedure NotifyGlobalLoading
4334: Procedure EndGlobalLoading
4335: Function GetUltimateOwner1(ACollection: TCollection): TPersistent;
4336: Function GetUltimateOwner(APersistent: TPersistent): TPersistent;
4337: // AddTypeS('TWndMethod', 'Procedure (var Message: TMessage)
4338: //Function MakeObjectInstance( Method: TWndMethod): Pointer
4339: Procedure FreeObjectInstance(ObjectInstance: Pointer)
4340: // Function AllocateHWnd( Method: TWndMethod): HWND
4341: Procedure DeallocateHWnd(Wnd: HWND)
4342: Function AncestorisValid(Anccestor: TPersistent; Root, RootAncestor: TComponent): Boolean
4343: {****unit uPSI_SqlTimSt and DB;*****}
4344: Procedure VarSQLTimeStampCreate4(var abest: Variant; const ASQLTimeStamp: TSQLTimeStamp);
4345: Function VarSQLTimeStampCreate3: Variant;
4346: Function VarSQLTimeStampCreate2(const AValue: string): Variant;
4347: Function VarSQLTimeStampCreate1(const AValue: TDateTime): Variant;
4348: Function VarSQLTimeStampCreate(const ASQLTimeStamp: TSQLTimeStamp): Variant;
4349: Function VarSQLTimeStamp: TVarType
4350: Function VarIsSQLTimeStamp(const aValue: Variant): Boolean;
4351: Function LocalToUTC(var TZInfo: TTimeZone; var Value: TSQLTimeStamp): TSQLTimeStamp //beta
4352: Function UTCToLocal(var TZInfo: TTimeZone; var Value: TSQLTimeStamp): TSQLTimeStamp //beta
4353: Function VarToSQLTimeStamp(const aValue: Variant): TSQLTimeStamp
4354: Function SQLTimeStampToStr(const Format: string; DateTime: TSQLTimeStamp): string
4355: Function SQLDayOfWeek(const DateTime: TSQLTimeStamp): integer
4356: Function DateTimeToSQLTimeStamp(const DateTime: TDateTime): TSQLTimeStamp
4357: Function SQLTimeStampToDateDateTime(const DateTime: TSQLTimeStamp): TDateTime
4358: Function TryStrToSQLTimeStamp(const S: string; var TimeStamp: TSQLTimeStamp): Boolean
4359: Function StrToSQLTimeStamp(const S: string): TSQLTimeStamp
4360: Procedure CheckSQLTimeStamp(const ASQLTimeStamp: TSQLTimeStamp)
4361: Function ExtractFieldName(const Fields: string; var Pos: Integer): string;
4362: Function ExtractFieldName(const Fields: WideString; var Pos: Integer): WideString;
4363: //Procedure RegisterFields(const FieldClasses: array of TFieldClass)

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4364: Procedure DatabaseError( const Message : WideString; Component : TComponent)
4365: Procedure DatabaseErrorFmt(const Message:WideString; const Args:array of const;Component:TComponent)
4366: Procedure DisposeMem( var Buffer, Size : Integer)
4367: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer) : Boolean
4368: Function GetFieldProperty(DataSet:TDataSet; Control:TComponent; const FieldName: WideString): TField
4369: Function VarTypeToDataType( VarType : Integer) : TFieldType
4370: *****unit JvStrings;*****
4371: {template functions}
4372: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4373: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4374: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4375: function RemoveMasterBlocks(const SourceStr: string): string;
4376: function RemoveFields(const SourceStr: string): string;
4377: {http functions}
4378: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4379: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4380: {set functions}
4381: procedure SplitSet(AText: string; AList: TStringList);
4382: function JoinSet(AList: TStringList): string;
4383: function FirstOfSet(const AText: string): string;
4384: function LastOfSet(const AText: string): string;
4385: function CountOfSet(const AText: string): Integer;
4386: function SetRotateRight(const AText: string): string;
4387: function SetRotateLeft(const AText: string): string;
4388: function SetPick(const AText: string; AIIndex: Integer): string;
4389: function SetSort(const AText: string): string;
4390: function SetUnion(const Set1, Set2: string): string;
4391: function SetIntersect(const Set1, Set2: string): string;
4392: function SetExclude(const Set1, Set2: string): string;
4393: {replace any <,> etc by &lt;,&gt;}
4394: function XMLSafe(const AText: string): string;
4395: {simple hash, Result can be used in Encrypt}
4396: function Hash(const AText: string): Integer;
4397: { Base64 encode and decode a string }
4398: function B64Encode(const S: AnsiString): AnsiString;
4399: function B64Decode(const S: AnsiString): AnsiString;
4400: {Basic encryption from a Borland Example}
4401: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4402: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4403: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4404: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4405: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4406: procedure CSVToTags(Src, Dst: TStringList);
4407: // converts a csv list to a tagged string list
4408: procedure TagsToCSV(Src, Dst: TStringList);
4409: // converts a tagged string list to a csv list
4410: // only fieldnames from the first record are scanned in the other records
4411: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4412: {selects akey=avalue from Src and returns recordset in Dst}
4413: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4414: {filters Src for akey=avalue}
4415: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4416: {orders a tagged Src list by akey}
4417: function PosStr(const FindString, SourceString: string;
4418: StartPos: Integer = 1): Integer;
4419: { PosStr searches the first occurrence of a substring FindString in a string
4420: given by SourceString with case sensitivity (upper and lower case characters
4421: are differed). This function returns the index value of the first character
4422: of a specified substring from which it occurs in a given string starting with
4423: StartPos character index. If a specified substring is not found Q_PosStr
4424: returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4425: function PosStrLast(const FindString, SourceString: string): Integer;
4426: {finds the last occurrence}
4427: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4428: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;
4429: { PosText searches the first occurrence of a substring FindString in a string
4430: given by SourceString without case sensitivity (upper and lower case characters are not differed). This
4431: function returns the index value of the first character of a specified substring from which it occurs in a
4432: given string starting with Start
4433: function PosTextLast(const FindString, SourceString: string): Integer;
4434: {finds the last occurrence}
4435: function NameValuesToXML(const AText: string): string;
4436: {$IFDEF MSWINDOWS}
4437: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4438: {$ENDIF MSWINDOWS}
4439: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4440: procedure RecurseDirFiles(const ADir: string; var AFileList: TStringList);
4441: procedure RecurseDirProgs(const ADir: string; var AFileList: TStringList);
4442: procedure SaveString(const AFile, AText: string);
4443: function LoadStringJ(const AFile: string): string;
4444: function LoadStringOfFile( const AFile : string ) : string
4445: function SaveStringToFile( const AFile, AText : string )
4446: function LoadStringFromFile( const AFile : string ) : string
4447: function HexToColor(const AText: string): TColor;
4448: function UppercaseHTMLTags(const AText: string): string;
4449: function LowercaseHTMLTags(const AText: string): string;
4450: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4451: function RelativePath(const ASrc, ADst: string): string;

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4451: function GetToken(var Start: Integer; const SourceText: string): string;
4452: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4453: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4454: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4455: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4456: // parses the beginning of an attribute: space + alpha character
4457: function ParseAttribute(var Start: Integer; const SourceText: string; var AName: string; AValue: string): Boolean;
4458: // parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4459: procedure ParseAttributes(const SourceText: string; Attributes: TStrings);
4460: // parses all name=value attributes to the attributes TStringList
4461: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4462: // checks if a name="value" pair exists and returns any value
4463: function GetStrValue(const AText, AName, ADefault: string): string;
4464: // retrieves string value from a line like:
4465: // name="jan verhoeven" email="janl dott verhoeven att wxs dott nl"
4466: // returns ADefault when not found
4467: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4468: // same for a color
4469: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4470: // same for an Integer
4471: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4472: // same for a float
4473: function GetBoolValue(const AText, AName: string): Boolean;
4474: // same for Boolean but without default
4475: function GetValue(const AText, AName: string): string;
4476: // retrieves string value from a line like: name="jan verhoeven" email="janl verhoeven att wxs dott nl"
4477: procedure SetValue(var AText: string; const AName, AValue: string);
4478: // sets a string value in a line
4479: procedure DeleteValue(var AText: string; const AName: string);
4480: // deletes a AName="value" pair from AText
4481: procedure GetNames(AText: string; Alist: TStringList);
4482: // get a list of names from a string with name="value" pairs
4483: function GetHTMLColor(AColor: TColor): string;
4484: // converts a color value to the HTML hex value
4485: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4486: // finds a string backward case sensitive
4487: function BackPostText(Start: Integer; const FindString, SourceString: string): Integer;
4488: // finds a string backward case insensitive
4489: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string);
4490: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4491: // finds a text range, e.g. <TD>....</TD> case sensitive
4492: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string);
4493: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4494: // finds a text range, e.g. <TD>....</td> case insensitive
4495: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string);
4496: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4497: // finds a text range backward, e.g. <TD>....</TD> case sensitive
4498: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string);
4499: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4500: // finds a text range backward, e.g. <TD>....</td> case insensitive
4501: function PostTag(Start: Integer; SourceString: string; var RangeBegin: Integer);
4502: var RangeEnd: Integer): Boolean;
4503: // finds a HTML or XML tag: <.....>
4504: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string);
4505: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4506: // finds the innertext between opening and closing tags
4507: function Easter(NYear: Integer): TDateTime;
4508: // returns the easter date of a year.
4509: function GetWeekNumber(Today: TDateTime): string;
4510: // gets a datecode. Returns year and weeknumber in format: YYWW
4511: function ParseNumber(const S: string): Integer;
4512: // parse number returns the last position, starting from 1
4513: function ParseDate(const S: string): Integer;
4514: // parse a SQL style date string from positions 1,
4515: // starts and ends with #
4516:
4517: *****unit JVJCLUtils;*****
4518:
4519: function VarIsInt(Value: Variant): Boolean;
4520: // VarIsInt returns VarIsOrdinal-[varBoolean]
4521: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4522: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4523: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4524: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4525: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4526: function GetWordOnPos(const S: string; const P: Integer): string;
4527: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4528: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4529: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4530: { GetWordOnPosEx working like GetWordOnPos function, but
4531: also returns Word position in iBeg, iEnd variables }
4532: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4533: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4534: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4535: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4536: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4537: { GetEndPosCaret returns the caret position of the last char. For the position
4538: after the last char of Text you must add 1 to the returned X value. }
4539: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);

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4540: { GetEndPosCaret returns the caret position of the last char. For the position
4541:   after the last char of Text you must add 1 to the returned X value. }
4542: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4543: function SubStrBySeparator(const S:string;const Index:Integer;const
  Separator:string;StartIndex:Int=1):string;
4544: function SubStrBySeparatorW(const S:WideString;const Index:Int;const
  Separator:WideString;StartIndex:Int:WideString;
4545: { SubStrEnd same to previous function but Index numerated from the end of string }
4546: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4547: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4548: function SubWord(P: PChar; var P2: PChar): string;
4549: function CurrencyByWord(Value: Currency): string;
4550: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4551: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4552: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4553: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4554: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4555: { ReplaceString searches for all substrings, OldPattern,
  4556:   in a string, S, and replaces them with NewPattern }
4557: function ReplaceString(S: string; const OldPattern,NewPattern: string; StartIndex:Integer = 1):string;
4558: function ReplaceStringW(S: WideString; const OldPattern,NewPattern:
  WideString;StartIndex:Integer=1):WideString;
4559: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4560: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4561: { ConcatLeftSep is same to previous function, but   strings concatenate right to left }
4562: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4563:
4564: { Next 4 function for russian chars transliterating.
  4565:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4566: procedure Dos2Win(var S: AnsiString);
4567: procedure Win2Dos(var S: AnsiString);
4568: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4569: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4570: function Win2Koi(const S: AnsiString): AnsiString;
4571: { FillString fills the string Buffer with Count Chars }
4572: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4573: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4574: { MoveString copies Count Chars from Source to Dest }
4575: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
  inline; {$ENDIF SUPPORTS_INLINE} overload;
4576: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
  DstStartIdx: Integer;Count: Integer);{$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4578: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4579: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4580: { MoveWideChar copies Count WideChars from Source to Dest }
4581: procedure MoveWideChar(const Source: string; var Dest: string;Count: Integer);{$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4582: { FillNativeChar fills Buffer with Count NativeChars }
4583: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
  SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4584: { MoveWideChar copies Count WideChars from Source to Dest }
4585: procedure MoveNativeChar(const Source: string; var Dest: string; Count: Integer); // D2009 internal error {$IFDEF
  SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4586: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4587: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4588: { Spaces returns string consists on N space chars }
4589: function Spaces(const N: Integer): string;
4590: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4591: function AddSpaces(const S: string; const N: Integer): string;
4592: function SpacesW(const N: Integer): WideString;
4593: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4594: { function LastDateRUS for russian users only }
4595: { returns date relative to current date: 'äää äïý ïäçää' }
4596: function LastDateRUS(const Dat: TDateTime): string;
4597: { CurrencyToStr format Currency, Cur, using ffCurrency float format}
4598: function CurrencyToStr(const Cur: Currency): string;
4599: { HasChar returns True, if Char, Ch, contains in string, S }
4600: function HasChar(const Ch: Char; const S: string): Boolean;
4601: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4602: function HasAnyChar(const Chars: string; const S: string): Boolean;
4603: {$IFNDEF COMPILER12_UP}
4604: function CharInSet(const Ch: AnsiChar;const SetOfChar:TSysCharSet):Boolean;inline;{$ENDIF SUPPORTS_INLINE}
4605: {$ENDIF ~COMPILER12_UP}
4606: function CharInSetW(const Ch: WideChar;const SetOfChar: TSysCharSet):Boolean;inline; {$ENDIF
  SUPPORTS_INLINE}
4607: function CountOfChar(const Ch: Char; const S: string): Integer;
4608: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4609: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4610: function StrLICompW2(S1, S2: PWideChar; MaxLen: Integer): Integer;
4611: function StrPosW(S, SubStr: PWideChar): PWideChar;
4612: function StrLenW(S: PWideChar): Integer;
4613: function TrimW(const S: WideString):WideString;{$IFDEF SUPPORTS_INLINE} inline;{$ENDIF SUPPORTS_INLINE}
4614: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4615: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4616: TPixelFormat', '( pfDevice, pflbit, pf4bit, pf8bit, pf24bit )

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4617: TMappingMethod', '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTriple, mmGrayscale )
4618: Function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4619: Function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4620: Procedure SetBitmapPixelFormat( Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod)
4621: Function BitmapToMemoryStream(Bitmap:TBitmap;PixelFormat:TPixelFormat;Method:TMappingMethod):TMemoryStream;
4622: Procedure GrayscaleBitmap( Bitmap : TBitmap )
4623: Function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4624: Procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer )
4625: Function ScreenPixelFormat : TPixelFormat
4626: Function ScreenColorCount : Integer
4627: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic )
4628: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean ) : TPoint
4629: // SIRegister_TJVGradient(CL);
4630:
4631: {***** files routines}
4632: procedure SetDelimitedText(List: TStringList; const Text: string; Delimiter: Char);
4633: const
4634:   {$IFDEF MSWINDOWS}
4635:     DefaultCaseSensitivity = False;
4636:   {$ENDIF MSWINDOWS}
4637:   {$IFDEF UNIX}
4638:     DefaultCaseSensitivity = True;
4639:   {$ENDIF UNIX}
4640: { GenTempFileName returns temporary file name on
4641:   drive, there FileName is placed }
4642: function GenTempFileName(FileName: string): string;
4643: { GenTempFileNameExt same to previous function, but
4644:   returning filename has given extension, FileExt }
4645: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4646: { ClearDir clears folder Dir }
4647: function ClearDir(const Dir: string): Boolean;
4648: { DeleteDir clears and than delete folder Dir }
4649: function DeleteDir(const Dir: string): Boolean;
4650: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4651: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4652: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4653:   Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4654: function FileEquMasks(FileName, Masks: TFileName;
4655:   CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4656: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4657: {$IFDEF MSWINDOWS}
4658: { LZFileExpand expand file, FileSource,
4659:   into FileDest. Given file must be compressed, using MS Compress program }
4660: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4661: {$ENDIF MSWINDOWS}
4662: { FileInfo fills SearchRec record for specified file attributes}
4663: function FileInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4664: { HasSubFolder returns True, if folder APath contains other folders }
4665: function HasSubFolder(APath: TFileName): Boolean;
4666: { IsEmptyFolder returns True, if there are no files or
4667:   folders in given folder, APath}
4668: function IsEmptyFolder(APath: TFileName): Boolean;
4669: { AddSlash returns string with added slash Char to Dir parameter, if needed }
4670: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4671: { AddPath returns FileName with Path, if FileName not contain any path }
4672: function AddPath(const FileName, Path: TFileName): TFileName;
4673: function AddPaths(const PathList, Path: string): string;
4674: function ParentPath(const Path: TFileName): TFileName;
4675: function FindInPath(const FileName, PathList: string): TFileName;
4676: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4677: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4678: { HasParam returns True, if program running with specified parameter, Param }
4679: function HasParam(const Param: string): Boolean;
4680: function HasSwitch(const Param: string): Boolean;
4681: function Switch(const Param: string): string;
4682: { ExePath returns ExtractFilePath(ParamStr(0)) }
4683: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4684: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4685: //function FileTimeToDate(FT: TFileTime): TDate;
4686: procedure FileTimeToDosDateTime(const FT: TFileTime; out Dft: DWORD);
4687: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4688: {**** Graphic routines }
4689: { IsTTFontSelected returns True, if True Type font is selected in specified device context }
4690: function IsTTFontSelected(const DC: HDC): Boolean;
4691: function KeyPressed(VK: Integer): Boolean;
4692: Function isKeypressed: boolean; //true if key on memo2 (shell output) is pressed
4693: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4694: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4695: {**** Color routines }
4696: procedure RGBToHSV(R, G, B: Integer; var H, S, V: Integer);
4697: function RGBToGR(Value: Cardinal): Cardinal;
4698: //function ColorToPrettyName(Value: TColor): string;
4699: //function PrettyNameToColor(const Value: string): TColor;
4700: {**** other routines }
4701: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4702: function IntPower(Base, Exponent: Integer): Integer;
4703: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4704: function StrToBool(const S: string): Boolean;
4705: function Var2Type(V: Variant; const DestVarType: Integer): Variant;

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4706: function VarToInt(V: Variant): Integer;
4707: function VarToFloat(V: Variant): Double;
4708: { following functions are not documented because they not work properly sometimes, so do not use them }
4709: // (rom) ReplaceStrings1, GetSubStr removed
4710: function GetLongFileName(const FileName: string): string;
4711: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4712: function GetParameter: string;
4713: function GetComputerID: string;
4714: function GetComputerName: string;
4715: {**** string routines }
4716: { ReplaceAllStrings searches for all substrings, Words,
4717:   in a string, S, and replaces them with Frases with the same Index. }
4718: function ReplaceAllStrings(const S: string; Words, Frases: TStrings): string;
4719: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4720:   in the list, Words, and if founds, replaces this Word with string from another list,Frases, with the
4721:   same Index, and then update NewSelStart variable }
4722: function ReplaceStrings(const S:string;PosBeg,Len:Int;Words,Frases:TStrings;var NewSelStart:Int):string;
4723: { CountOfLines calculates the lines count in a string, S,
4724:   each line must be separated from another with CrLf sequence }
4725: function CountOfLines(const S: string): Integer;
4726: { DeleteLines deletes all lines from strings which in the words, words.
4727:   The word of will be deleted from strings. }
4728: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4729: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4730:   Lines contained only spaces also deletes. }
4731: procedure DeleteEmptyLines(Ss: TStrings);
4732: { SQLAddWhere addes or modifies existing where-statement, where,
4733:   to the strings, SQL. Note: If strings SQL alreadly contains where-statement,
4734:   it must be started on the begining of any line }
4735: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4736: {**** files routines - }
4736: {$IFDEF MSWINDOWS}
4737: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4738:   Resource can be compressed using MS Compress program}
4739: function ResSaveToFile(const Typ,Name:string; const Compressed: Boolean; const FileName: string): Boolean;
4740: function ResSaveToFileEx(Instance:HINST;Typ,Name:PChar;const Compressed:Boolean;const FileName:string):
4741: Boolean;
4742: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4742: {$ENDIF MSWINDOWS}
4743: { IniReadSection read section, Section, from ini-file,
4744:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
4745:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
4746: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4747: { LoadTextFile load text file, FileName, into string }
4748: function LoadTextFile(const FileName: TFileName): string;
4749: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4750: { ReadFolder reads files list from disk folder,Folder,that are equal to mask, Mask,into strings, FileList}
4751: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
4752: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4753: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4754: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4755: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
4756: function RATextOutEx(Canvas:TCanvas;const R,RClip:TRect; const S:string;const CalcHeight:Boolean):Integer;
4757: { RATextCalcHeight calculate needed height for
4758:   correct output, using RATextOut or RATextOutEx functions }
4759: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4760: { Cinema draws some visual effect }
4761: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4762: { Roughed fills rect with special 3D pattern }
4763: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4764: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
4765:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4765: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4766: { TextWidth calculate text with for writing using standard desktop font }
4767: function TextWidth(const AStr: string): Integer;
4768: { TextHeight calculate text height for writing using standard desktop font }
4769: function TextHeight(const AStr: string): Integer;
4770: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4771: procedure Error(const Msg: string);
4772: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4773:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4774: {example Text parameter:'Item 1<b></b><i>italic ITALIC <c:Red>red</c:>green<c:blue>blue</i>' }
4775: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4776:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4777: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4778:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4779: function ItemHtPlain(const Text: string): string;
4780: { ClearList - clears list of TObject }
4781: procedure ClearList(List: TList);
4782: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
4783: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
4784: { RTTI support }
4785: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4786: function GetPropStr(Obj: TObject; const PropName: string): string;
4787: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4788: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4789: procedure PrepareInSection(Ss: TStrings);
4790: { following functions are not documented because they are don't work properly, so don't use them }
4791: // (rom) from JvBandWindows to make it obsolete

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4792: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4793: // (rom) from JvBandUtils to make it obsolete
4794: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4795: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4796: function CreateIconFromClipboard: TIcon;
4797: { begin JvIconClipboardUtils } { Icon clipboard routines }
4798: function CF_ICON: Word;
4799: procedure AssignClipboardIcon(Icon: TIcon);
4800: { Real-size icons support routines (32-bit only) }
4801: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4802: function CreateRealSizeIcon(Icon: TIcon): HICON;
4803: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4804: {end JvIconClipboardUtils }
4805: function CreateScreenCompatibleDC: HDC;
4806: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF}
4807: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4808: { begin JvRLE } // (rom) changed API for inclusion in JCL
4809: procedure RleCompressTo(InStream, OutStream: TStream);
4810: procedure RleDecompressTo(InStream, OutStream: TStream);
4811: procedure RleCompress(Stream: TStream);
4812: procedure RleDecompress(Stream: TStream);
4813: { end JVRL } { begin JvDateUtil }
4814: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4815: function IsLeapYear(AYear: Integer): Boolean;
4816: function DaysInAMonth(const AYear, AMonth: Word): Word;
4817: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4818: function FirstDayOfPrevMonth: TDateTime;
4819: function LastDayOfPrevMonth: TDateTime;
4820: function FirstDayOfNextMonth: TDateTime;
4821: function ExtractDay(ADate: TDateTime): Word;
4822: function ExtractMonth(ADate: TDateTime): Word;
4823: function ExtractYear(ADate: TDateTime): Word;
4824: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4825: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$ENDIF SUPPORTS_INLINE}
4826: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4827: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4828: function ValidDate(ADate: TDateTime): Boolean;
4829: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4830: function MonthsBetween(Date1, Date2: TDateTime): Double;
4831: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4832: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4833: function DaysBetween(Date1, Date2: TDateTime): Longint;
4834: { The same as previous but if Date2 < Date1 result = 0 }
4835: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4836: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4837: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4838: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4839: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
4840: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4841: { String to date conversions }
4842: function GetDateOrder(const DateFormat: string): TDateOrder;
4843: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4844: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4845: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4846: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4847: //function DefDateFormat(AFourDigitYear: Boolean): string;
4848: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4849: function FormatLongDate(Value: TDateTime): string;
4850: function FormatLongDateTime(Value: TDateTime): string;
4851: { end JvDateUtil }
4852: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4853: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4854: { begin JvStrUtils } { ** Common string handling routines ** }
4855: {$IFDEF UNIX}
4856: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4857: const ToCode, FromCode: AnsiString): Boolean;
4858: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4859: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4860: function OemStrToAnsi(const S: AnsiString): AnsiString;
4861: function AnsiStrToOem(const S: AnsiString): AnsiString;
4862: {$ENDIF UNIX}
4863: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4864: { StrToOem translates a string from the Windows character set into the OEM character set. }
4865: function OemToStr(const OemStr: AnsiString): AnsiString;
4866: { OemToStr translates a string from the OEM character set into the Windows character set. }
4867: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4868: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4869: function ReplaceStr(const S, Srch, Replace: string): string;
4870: { Returns string with every occurrence of Srch string replaced with Replace string. }
4871: function DelSpace(const S: string): string;
4872: { DelSpace return a string with all white spaces removed. }
4873: function DelChars(const S: string; Chr: Char): string;
4874: { DelChars return a string with all Chr characters removed. }
4875: function DelBSpace(const S: string): string;
4876: { DelBSpace trims leading spaces from the given string. }
4877: function DelESpace(const S: string): string;
4878: { DelESpace trims trailing spaces from the given string. }
4879: function DelRSpace(const S: string): string;

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4880: { DelSpace trims leading and trailing spaces from the given string. }
4881: function DelSpace1(const S: string): string;
4882: { DelSpace1 return a string with all non-single white spaces removed. }
4883: function Tab2Space(const S: string; Numb: Byte): string;
4884: { Tab2Space converts any tabulation character in the given string to the
4885:   Numb spaces characters. }
4886: function NPos(const C: string; S: string; N: Integer): Integer;
4887: { NPos searches for a N-th position of substring C in a given string. }
4888: function MakeStr(C: Char; N: Integer): string; overload;
4889: {$IFNDEF COMPILER12_UP}
4890: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4891: {$ENDIF !COMPILER12_UP}
4892: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4893: { MakeStr return a string of length N filled with character C. }
4894: function AddChar(C: Char; const S: string; N: Integer): string;
4895: { AddChar return a string left-padded to length N with characters C. }
4896: function AddCharR(C: Char; const S: string; N: Integer): string;
4897: { AddCharR return a string right-padded to length N with characters C. }
4898: function LeftStr(const S: string; N: Integer): string;
4899: { LeftStr return a string right-padded to length N with blanks. }
4900: function RightStr(const S: string; N: Integer): string;
4901: { RightStr return a string left-padded to length N with blanks. }
4902: function CenterStr(const S: string; Len: Integer): string;
4903: { CenterStr centers the characters in the string based upon the Len specified. }
4904: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4905: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4906:   -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4907: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4908: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4909: function Copy2Symb(const S: string; Symb: Char): string;
4910: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4911: function Copy2SymbDel(var S: string; Symb: Char): string;
4912: { Copy2SymbDel returns a substring of a string S from beginning to first
4913:   character Symb and removes this substring from S. }
4914: function Copy2Space(const S: string): string;
4915: { Copy2Space returns a substring of a string S from beginning to first white space. }
4916: function Copy2SpaceDel(var S: string): string;
4917: { Copy2SpaceDel returns a substring of a string S from beginning to first
4918:   white space and removes this substring from S. }
4919: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4920: { Returns string, with the first letter of each word in uppercase,
4921:   all other letters in lowercase. Words are delimited by WordDelims. }
4922: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4923: { WordCount given a set of word delimiters, returns number of words in S. }
4924: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4925: { Given a set of word delimiters, returns start position of N'th word in S. }
4926: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4927: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4928: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4929: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4930:   delimiters, return the N'th word in S. }
4931: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;
4932: { ExtractSubstr given a set of word delimiters, returns the substring from S,
4933:   that started from position Pos. }
4934: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4935: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4936: function QuotedString(const S: string; Quote: Char): string;
4937: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4938: function ExtractQuotedString(const S: string; Quote: Char): string;
4939: { ExtractQuotedString removes the Quote characters from the beginning and
4940:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character. }
4941: function FindPart(const HelpWilds, InputStr: string): Integer;
4942: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4943: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4944: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4945: function XorString(const Key, Src: ShortString): ShortString;
4946: function XorEncode(const Key, Source: string): string;
4947: function XorDecode(const Key, Source: string): string;
4948: { ** Command line routines ** }
4949: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4950: { ** Numeric string handling routines ** }
4951: function Numb2USA(const S: string): string;
4952: { Numb2USA converts numeric string S to USA-format. }
4953: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4954: { Dec2Hex converts the given value to a hexadecimal string representation
4955:   with the minimum number of digits (A) specified. }
4956: function Hex2Dec(const S: string): Longint;
4957: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4958: function Dec2Numb(N: Int64; A, B: Byte): string;
4959: { Dec2Numb converts the given value to a string representation with the
4960:   base equal to B and with the minimum number of digits (A) specified. }
4961: function Numb2Dec(S: string; B: Byte): Int64;
4962: { Numb2Dec converts the given B-based numeric string to the corresponding
4963:   integer value. }
4964: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4965: { IntToBin converts the given value to a binary string representation
4966:   with the minimum number of digits specified. }
4967: function IntToRoman(Value: Longint): string;
4968: { IntToRoman converts the given value to a roman numeric string representation. }

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4969: function RomanToInt(const S: string): Longint;
4970: { RomanToInt converts the given string to an integer value. If the string
4971:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4972: function FindNotBlankCharPos(const S: string): Integer;
4973: function FindNotBlankCharPosW(const S: WideString): Integer;
4974: function AnsiChangeCase(const S: string): string;
4975: function WideChangeCase(const S: string): string;
4976: function StartsText(const SubStr, S: string): Boolean;
4977: function EndsText(const SubStr, S: string): Boolean;
4978: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4979: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4980: {end JvStrUtils}
4981: {$IFDEF UNIX}
4982: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4983: {$ENDIF UNIX}
4984: { begin JvFileUtil }
4985: function FileDateTime(const FileName: string): TDateTime;
4986: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4987: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4988: function NormalDir(const DirName: string): string;
4989: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4990: function ValidFileName(const FileName: string): Boolean;
4991: {$IFDEF MSWINDOWS}
4992: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4993: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4994: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4995: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4996: {$ENDIF MSWINDOWS}
4997: function GetWindowsDir: string;
4998: function GetSystemDir: string;
4999: function ShortToLongFileName(const ShortName: string): string;
5000: function LongToShortFileName(const LongName: string): string;
5001: function ShortToLongPath(const ShortName: string): string;
5002: function LongToShortPath(const LongName: string): string;
5003: {$IFDEF MSWINDOWS}
5004: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
5005: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
5006: {$ENDIF MSWINDOWS}
5007: { end JvfileUtil }
5008: // Works like PtInRect but includes all edges in comparision
5009: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
5010: // Works like PtInRect but excludes all edges from comparision
5011: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
5012: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
5013: function IsFourDigitYear: Boolean;
5014: { moved from JvJVCLUTils }
5015: //Open an object with the shell (url or something like that)
5016: function OpenObject(const Value: string): Boolean; overload;
5017: function OpenObject(Value: PChar): Boolean; overload;
5018: {$IFDEF MSWINDOWS}
5019: //Raise the last Exception
5020: procedure RaiseLastWin32; overload;
5021: procedure RaiseLastWin32(const Text: string); overload;
5022: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
      significant 32 bits of a file's binary version number. Typically, this includes the major and minor
      version placed together in one 32-bit Integer. I
5023: function GetFileVersion(const AFileName: string): Cardinal;
5024: {$EXTERNALSYM GetFileVersion}
5025: //Get version of Shell.dll
5026: function GetShellVersion: Cardinal;
5027: {$EXTERNALSYM GetShellVersion}
5028: // CD functions on HW
5029: procedure OpenCdDrive;
5030: procedure CloseCdDrive;
5031: // returns True if Drive is accessible
5032: function DiskInDrive(Drive: Char): Boolean;
5033: {$ENDIF MSWINDOWS}
5034: //Same as linux function ;
5035: procedure PError(const Text: string);
5036: // execute a program without waiting
5037: procedure Exec(const FileName, Parameters, Directory: string);
5038: // execute a program and wait for it to finish
5039: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
5040: // returns True if this is the first instance of the program that is running
5041: function FirstInstance(const ATitle: string): Boolean;
5042: // restores a window based on it's classname and Caption. Either can be left empty
5043: // to widen the search
5044: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
5045: // manipulate the traybar and start button
5046: procedure HideTraybar;
5047: procedure ShowTraybar;
5048: procedure ShowStartButton(Visible: Boolean = True);
5049: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
5050: procedure MonitorOn;
5051: procedure MonitorOff;
5052: procedure LowPower;
5053: // send a key to the window named AppName
5054: function SendKey(const AppName: string; Key: Char): Boolean;
5055: {$IFDEF MSWINDOWS}

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5056: // returns a list of all win currently visible, the Objects property is filled with their window handle
5057: procedure GetVisibleWindows(List: TStrings);
5058: Function GetVisibleWindowsF( List : TStrings):TStrings';
5059: // associates an extension to a specific program
5060: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5061: procedure AddToRecentDocs(const FileName: string);
5062: function GetRecentDocs: TStringList;
5063: {$ENDIF MSWINDOWS}
5064: function CharIsMoney(const Ch: Char): Boolean;
5065: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5066: function IntToExtended(I: Integer): Extended;
5067: { GetChangedText works out the new text given the current cursor pos & the key pressed
5068: It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5069: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5070: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5071: //function StrIsInteger(const S: string): Boolean;
5072: function StrIsFloatMoney(const Ps: string): Boolean;
5073: function StrIsDateTime(const Ps: string): Boolean;
5074: function PreformatDateString(Ps: string): string;
5075: function BooleanToInteger(const B: Boolean): Integer;
5076: function StringToBoolean(const Ps: string): Boolean;
5077: function SafeStrToDate(const Ps: string): TDateTime;
5078: function SafeStrToDate(const Ps: string): TDateTime;
5079: function SafeStrToTime(const Ps: string): TDateTime;
5080: function StrDelete(const psSub, psMain: string): string;
5081: { returns the fractional value of pcValue}
5082: function TimeOnly(pcValue: TDateTime): TTime;
5083: { returns the integral value of pcValue }
5084: function DateOnly(pcValue: TDateTime): TDate;
5085: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5086: const { TDatetime value used to signify Null value}
5087: NullEquivalentDate: TDateTime = 0.0;
5088: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5089: // Replacement for Win32Check to avoid platform specific warnings in D6
5090: function OSCheckRetVal: Boolean;
5091: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5092: Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5093: not be forced to use FileCtrl unnecessarily }
5094: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5095: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5096: { MinimizeString truncates long string, S, and appends...' symbols, if Length of S is more than MaxLen }
5097: function MinimizeString(const S: string; const MaxLen: Integer): string;
5098: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5099: { 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.}
5100: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5101: {$ENDIF MSWINDOWS}
5102: procedure ResourceNotFound(ResID: PChar);
5103: function EmptyRect: TRect;
5104: function RectWidth(R: TRect): Integer;
5105: function RectHeight(R: TRect): Integer;
5106: function CompareRect(const R1, R2: TRect): Boolean;
5107: procedure RectNormalize(var R: TRect);
5108: function RectIsSquare(const R: TRect): Boolean;
5109: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5110: //IF AMaxSize = -1 ,then auto calc Square's max size
5111: {$IFDEF MSWINDOWS}
5112: procedure FreeUnusedOle;
5113: function GetWindowsVersion: string;
5114: function LoadDLL(const LibName: string): THandle;
5115: function RegisterServer(const ModuleName: string): Boolean;
5116: function UnregisterServer(const ModuleName: string): Boolean;
5117: {$ENDIF MSWINDOWS}
5118: { String routines }
5119: function GetEnvVar(const VarName: string): string;
5120: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5121: function StringToPChar(var S: string): PChar;
5122: function StrPAlloc(const S: string): PChar;
5123: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5124: function DropT(const S: string): string;
5125: { Memory routines }
5126: function AllocMemo(Size: Longint): Pointer;
5127: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5128: procedure FreeMemo(var fpBlock: Pointer);
5129: function GetMemoSize(fpBlock: Pointer): Longint;
5130: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5131: { Manipulate huge pointers routines }
5132: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5133: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5134: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5135: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5136: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5137: function WindowClassName(Wnd: THandle): string;
5138: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5139: procedure ActivateWindow(Wnd: THandle);
5140: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5141: procedure KillMessage(Wnd: THandle; Msg: Cardinal);

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5142: { SetWindowTop put window to top without recreating window }
5143: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5144: procedure CenterWindow(Wnd: THandle);
5145: function MakeVariant(const Values: array of Variant): Variant;
5146: { Convert dialog units to pixels and backwards }
5147: {$IFDEF MSWINDOWS}
5148: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5149: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5150: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5151: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5152: {$ENDIF MSWINDOWS}
5153: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5154: {$IFDEF BCB}
5155: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5156: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5157: {$ELSE}
5158: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5159: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5160: {$ENDIF BCB}
5161: {$IFDEF MSWINDOWS}
5162: { BrowseForFolderNative displays Browse For Folder dialog }
5163: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5164: {$ENDIF MSWINDOWS}
5165: procedure AntiAlias(Clip: TBitmap);
5166: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5167: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5168: ABitmap: TBitmap; const SourceRect: TRect);
5169: function IsTrueType(const FontName: string): Boolean;
5170: // Removes all non-numeric characters from AValue and returns the resulting string
5171: function TextToValText(const AValue: string): string;
5172: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean;
5173: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings );
5174: Function ReplaceRegExpr( const ARegExpr,AInputStr,
      AReplaceStr:RegExprString; AUseSubstitution:bool):RegExprString;
5175: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString;
5176: Function RegExprSubExpressions( const ARegExpr:string; ASubExprs:TStrings; AExtendedSyntax : boolean ) :
5177:
5178: *****unit uPSI_JvTFUtils;
5179: Function JExtractYear( ADate : TDateTime ) : Word
5180: Function JExtractMonth( ADate : TDateTime ) : Word
5181: Function JExtractDay( ADate : TDateTime ) : Word
5182: Function ExtractHours( ATime : TDateTime ) : Word
5183: Function ExtractMins( ATime : TDateTime ) : Word
5184: Function ExtractSecs( ATime : TDateTime ) : Word
5185: Function ExtractMSecs( ATime : TDateTime ) : Word
5186: Function FirstOfMonth( ADate : TDateTime ) : TDateTime
5187: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word
5188: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word
5189: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer )
5190: Procedure IncDOW( var DOW : TTFFDayOfWeek; N : Integer )
5191: Procedure IncDays( var ADate : TDateTime; N : Integer )
5192: Procedure IncWeeks( var ADate : TDateTime; N : Integer )
5193: Procedure IncMonths( var ADate : TDateTime; N : Integer )
5194: Procedure IncYears( var ADate : TDateTime; N : Integer )
5195: Function EndOfMonth( ADate : TDateTime ) : TDateTime
5196: Function IsFirstOfMonth( ADate : TDateTime ) : Boolean
5197: Function IsEndOfMonth( ADate : TDateTime ) : Boolean
5198: Procedure EnsureMonth( Month : Word )
5199: Procedure EnsureDOW( DOW : Word )
5200: Function EqualDates( D1, D2 : TDateTime ) : Boolean
5201: Function Lesser( N1, N2 : Integer ) : Integer
5202: Function Greater( N1, N2 : Integer ) : Integer
5203: Function GetDivLength( TotalLength, DivCount, DivNum : Integer ) : Integer
5204: Function GetDivNum( TotalLength, DivCount, X : Integer ) : Integer
5205: Function GetDivStart( TotalLength, DivCount, DivNum : Integer ) : Integer
5206: Function DOWToBorl( ADOW : TTFFDayOfWeek ) : Integer
5207: Function BorlToDOW( BorlDOW : Integer ) : TTFFDayOfWeek
5208: Function DateToDOW( ADate : TDateTime ) : TTFFDayOfWeek
5209: Procedure CalcTextPos( HostRect: TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
      AFont:TFont; AAngle: Integer; HAlign: TAlignment; VAlign: TJvTFVAlignment; ATxt : string )
5210: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
      HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string )
5211: Function JRectWidth( ARect : TRect ) : Integer
5212: Function JRectHeight( ARect : TRect ) : Integer
5213: Function JEmptyRect : TRect
5214: Function IsClassByName( Obj : TObject; ClassName : string ) : Boolean
5215:
5216: procedure SIRegister_MSUtils(CL: TPSPascalCompiler);
5217: begin
5218: Procedure HideTaskBarButton( hWindow : HWND )
5219: Function msLoadStr( ID : Integer ) : String
5220: Function msFormat( fmt : String; params : array of const ) : String
5221: Function msFileExists( const FileName : String ) : Boolean
5222: Function msIntToStr( Int : Int64 ) : String
5223: Function msStrPas( const Str : PChar ) : String
5224: Function msRenameFile( const OldName, NewName : String ) : Boolean
5225: Function CutFileName( s : String ) : String
5226: Function GetVersionInfo( var VersionString : String ) : DWORD
5227: Function FormatTime( t : Cardinal ) : String

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5228: Function msCreateDir( const Dir : string ) : Boolean
5229: Function SetAutoRun( NeedAutoRun : Boolean; AppName : String ) : Boolean
5230: Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword ) : DWORD
5231: Function msStrLen( Str : PChar ) : Integer
5232: Function msDirectoryExists( const Directory : String ) : Boolean
5233: Function GetFolder( hWnd : HWND; RootDir : Integer; Caption : String ) : String
5234: Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte ) : LongBool
5235: Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
5236: Procedure SetEditWndProc( hWnd : HWND; ptr : TObject )
5237: Function GetTextFromFile( Filename : String ) : string
5238: Function IsTopMost( hWnd : HWND ) : Bool // 'LWA_ALPHA','LongWord').SetUInt( $00000002 );
5239: Function msStrToIntDef( const s : String; const i : Integer ) : Integer
5240: Function msStrToInt( s : String ) : Integer
5241: Function GetItemText( hDlg : THandle; ID : DWORD ) : String
5242: end;
5243:
5244: procedure SIRegister_ESBMaths2(CL: TPSPascalCompiler);
5245: begin
5246:   //TDynFloatArray', 'array of Extended
5247:   TDynLWordArray', 'array of LongWord
5248:   TDynLIntArray', 'array of LongInt
5249:   TDynFloatMatrix', 'array of TDynFloatArray
5250:   TDynLWordMatrix', 'array of TDynLWordArray
5251:   TDynLIntArray', 'array of TDynLIntArray
5252:   Function SquareAll( const X : TDynFloatArray ) : TDynFloatArray
5253:   Function InverseAll( const X : TDynFloatArray ) : TDynFloatArray
5254:   Function LnAll( const X : TDynFloatArray ) : TDynFloatArray
5255:   Function Log10All( const X : TDynFloatArray ) : TDynFloatArray
5256:   Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended ) : TDynFloatArray
5257:   Function AddVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5258:   Function SubVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5259:   Function MultVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5260:   Function DotProduct( const X, Y : TDynFloatArray ) : Extended
5261:   Function MNorm( const X : TDynFloatArray ) : Extended
5262:   Function MatrixIsRectangular( const X : TDynFloatMatrix ) : Boolean
5263:   Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean);
5264:   Function MatrixIsSquare( const X : TDynFloatMatrix ) : Boolean
5265:   Function MatricesSameDimensions( const X, Y : TDynFloatMatrix ) : Boolean
5266:   Function AddMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix
5267:   Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix )
5268:   Function SubtractMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix
5269:   Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix )
5270:   Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended ) : TDynFloatMatrix
5271:   Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended );
5272:   Function MultiplyMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix;
5273:   Function TransposeMatrix( const X : TDynFloatMatrix ) : TDynFloatMatrix;
5274:   Function GrandMean( const X : TDynFloatMatrix; var N : LongWord ) : Extended
5275: end;
5276:
5277: procedure SIRegister_ESBMaths(CL: TPSPascalCompiler);
5278: begin
5279:   'ESBMinSingle','Single').setExtended( 1.5e-45 );
5280:   'ESBMaxSingle','Single').setExtended( 3.4e+38 );
5281:   'ESBMinDouble','Double').setExtended( 5.0e-324 );
5282:   'ESBMaxDouble','Double').setExtended( 1.7e+308 );
5283:   'ESBMinExtended','Extended').setExtended( 3.6e-4951 );
5284:   'ESBMaxExtended','Extended').setExtended( 1.1e+4932 );
5285:   'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807 );
5286:   'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807 );
5287:   'ESBSqr2','Extended').setExtended( 1.4142135623730950488 );
5288:   'ESBSqr3','Extended').setExtended( 1.7320508075688772935 );
5289:   'ESBSqr5','Extended').setExtended( 2.2360679774997896964 );
5290:   'ESBSqr10','Extended').setExtended( 3.1622776601683793320 );
5291:   'ESBSqrPi','Extended').setExtended( 1.77245385090551602729 );
5292:   'ESBCbrt2','Extended').setExtended( 1.2599210498948731648 );
5293:   'ESBCbrt3','Extended').setExtended( 1.4422495703074083823 );
5294:   'ESBCbrt10','Extended').setExtended( 2.1544346900318837219 );
5295:   'ESBCbrt100','Extended').setExtended( 4.6415888336127788924 );
5296:   'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630 );
5297:   'ESBInvSqr2','Extended').setExtended( 0.70710678118654752440 );
5298:   'ESBInvSqr3','Extended').setExtended( 0.57735026918962576451 );
5299:   'ESBInvSqr5','Extended').setExtended( 0.44721359549995793928 );
5300:   'ESBInvSqrPi','Extended').setExtended( 0.56418958354775628695 );
5301:   'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147 );
5302:   'ESBe','Extended').setExtended( 2.71828182849590452354 );
5303:   'ESBe2','Extended').setExtended( 7.3890560989306502272 );
5304:   'ESBePi','Extended').setExtended( 23.140692632779269006 );
5305:   'ESBePiOn2','Extended').setExtended( 4.8104773809653516555 );
5306:   'ESBePiOn4','Extended').setExtended( 2.1932800507380154566 );
5307:   'ESBLn2','Extended').setExtended( 0.69314718055994530942 );
5308:   'ESBLn10','Extended').setExtended( 2.30258509299404568402 );
5309:   'ESBLnPi','Extended').setExtended( 1.14472988584940017414 );
5310:   'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478 );
5311:   'ESBLog2Base10','Extended').setExtended( 0.30102999566398119521 );
5312:   'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730 );
5313:   'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339 );
5314:   'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765 );
5315:   'ESBPi','Extended').setExtended( 3.1415926535897932385 );
5316:   'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1 );

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5317: 'ESBTtwoPi','Extended').setExtended( 6.2831853071795864769);
5318: 'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5319: 'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5320: 'ESBPiToE','Extended').setExtended( 22.459157718361045473);
5321: 'ESBPiOn2','Extended').setExtended( 1.5707963267948966192);
5322: 'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5323: 'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5324: 'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5325: 'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5326: 'ESBTwoToPower63','Extended').setExtended( 9223372036854775808.0);
5327: 'ESBOneRadian','Extended').setExtended( 57.295779513082320877);
5328: 'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5329: 'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5330: 'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5331: 'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5332: 'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1);
5333: //LongWord', 'Cardinal
5334: TBitList', 'Word
5335: Function UMul( const Num1, Num2 : LongWord) : LongWord
5336: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5337: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5338: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5339: Function SameFloat( const X1, X2 : Extended) : Boolean
5340: Function FloatIsZero( const X : Extended) : Boolean
5341: Function FloatIsPositive( const X : Extended) : Boolean
5342: Function FloatIsNegative( const X : Extended) : Boolean
5343: Procedure IncLim( var B : Byte; const Limit : Byte)
5344: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5345: Procedure IncLimW( var B : Word; const Limit : Word)
5346: Procedure IncLimI( var B : Integer; const Limit : Integer)
5347: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5348: Procedure DecLim( var B : Byte; const Limit : Byte)
5349: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5350: Procedure DecLimW( var B : Word; const Limit : Word)
5351: Procedure DecLimI( var B : Integer; const Limit : Integer)
5352: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5353: Function MaxB( const B1, B2 : Byte) : Byte
5354: Function MinB( const B1, B2 : Byte) : Byte
5355: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5356: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5357: Function MaxW( const B1, B2 : Word) : Word
5358: Function MinW( const B1, B2 : Word) : Word
5359: Function esbMaxI( const B1, B2 : Integer) : Integer
5360: Function esbMinI( const B1, B2 : Integer) : Integer
5361: Function MaxL( const B1, B2 : LongInt) : LongInt
5362: Function MinL( const B1, B2 : LongInt) : LongInt
5363: Procedure SwapB( var B1, B2 : Byte)
5364: Procedure SwapSI( var B1, B2 : ShortInt)
5365: Procedure SwapW( var B1, B2 : Word)
5366: Procedure SwapI( var B1, B2 : SmallInt)
5367: Procedure SwapL( var B1, B2 : LongInt)
5368: Procedure SwapI32( var B1, B2 : Integer)
5369: Procedure SwapC( var B1, B2 : LongWord)
5370: Procedure SwapInt64( var X, Y : Int64)
5371: Function esbSign( const B : LongInt) : ShortInt
5372: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5373: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5374: Function Max3Word( const X1, X2, X3 : Word) : Word
5375: Function Min3Word( const X1, X2, X3 : Word) : Word
5376: Function MaxBArray( const B : array of Byte) : Byte
5377: Function MaxWArray( const B : array of Word) : Word
5378: Function MaxSIArray( const B : array of ShortInt) : ShortInt
5379: Function MaxIArray( const B : array of Integer) : Integer
5380: Function MaxLArray( const B : array of LongInt) : LongInt
5381: Function MinBArray( const B : array of Byte) : Byte
5382: Function MinWArray( const B : array of Word) : Word
5383: Function MinSIArray( const B : array of ShortInt) : ShortInt
5384: Function MinIArray( const B : array of Integer) : Integer
5385: Function MinLArray( const B : array of LongInt) : LongInt
5386: Function SumBArray( const B : array of Byte) : Byte
5387: Function SumBArray2( const B : array of Byte) : Word
5388: Function SumSIArray( const B : array of ShortInt) : ShortInt
5389: Function SumSIArray2( const B : array of ShortInt) : Integer
5390: Function SumWArray( const B : array of Word) : Word
5391: Function SumWArray2( const B : array of Word) : LongInt
5392: Function SumIArray( const B : array of Integer) : Integer
5393: Function SumLArray( const B : array of LongInt) : LongInt
5394: Function SumLWArray( const B : array of LongWord) : LongWord
5395: Function ESDigits( const X : LongWord) : Byte
5396: Function BitsHighest( const X : LongWord) : Integer
5397: Function ESBbitsNeeded( const X : LongWord) : Integer
5398: Function esbGCD( const X, Y : LongWord) : LongWord
5399: Function esbLCM( const X, Y : LongInt) : Int64
5400: //Function esbLCM( const X, Y : LongInt) : LongInt
5401: Function RelativePrime( const X, Y : LongWord) : Boolean
5402: Function Get87ControlWord : TBitList
5403: Procedure Set87ControlWord( const CWord : TBitList)
5404: Procedure SwapExt( var X, Y : Extended)
5405: Procedure SwapDbl( var X, Y : Double)

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5406: Procedure SwapSing( var X, Y : Single)
5407: Function esbSgn( const X : Extended) : ShortInt
5408: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5409: Function ExtMod( const X, Y : Extended) : Extended
5410: Function ExtRem( const X, Y : Extended) : Extended
5411: Function CompMOD( const X, Y : Comp) : Comp
5412: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5413: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5414: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5415: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5416: Function MaxExt( const X, Y : Extended) : Extended
5417: Function MinExt( const X, Y : Extended) : Extended
5418: Function MaxEArray( const B : array of Extended) : Extended
5419: Function MinEArray( const B : array of Extended) : Extended
5420: Function MaxSArray( const B : array of Single) : Single
5421: Function MinSArray( const B : array of Single) : Single
5422: Function MaxCArray( const B : array of Comp) : Comp
5423: Function MinCArray( const B : array of Comp) : Comp
5424: Function SumSArray( const B : array of Single) : Single
5425: Function SumEArray( const B : array of Extended) : Extended
5426: Function SumSqEArray( const B : array of Extended) : Extended
5427: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5428: Function SumXYEArray( const X, Y : array of Extended) : Extended
5429: Function SumCArray( const B : array of Comp) : Comp
5430: Function FactorialX( A : LongWord) : Extended
5431: Function PermutationX( N, R : LongWord) : Extended
5432: Function esbbinomialCoeff( N, R : LongWord) : Extended
5433: Function IsPositiveEArray( const X : array of Extended) : Boolean
5434: Function esbGeometricMean( const X : array of Extended) : Extended
5435: Function esbHarmonicMean( const X : array of Extended) : Extended
5436: Function ESBMean( const X : array of Extended) : Extended
5437: Function esbSampleVariance( const X : array of Extended) : Extended
5438: Function esbPopulationVariance( const X : array of Extended) : Extended
5439: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5440: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5441: Function GetMedian( const SortedX : array of Extended) : Extended
5442: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5443: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5444: Function ESBMagnitude( const X : Extended) : Integer
5445: Function ESBTan( Angle : Extended) : Extended
5446: Function ESBCot( Angle : Extended) : Extended
5447: Function ESB cosec( const Angle : Extended) : Extended
5448: Function ESB Sec( const Angle : Extended) : Extended
5449: Function ESB ArcTan( X, Y : Extended) : Extended
5450: Procedure ESB SinCos( Angle : Extended; var SinX, CosX : Extended)
5451: Function ESB ArcCos( const X : Extended) : Extended
5452: Function ESB ArcSin( const X : Extended) : Extended
5453: Function ESB ArcSec( const X : Extended) : Extended
5454: Function ESB ArcCosec( const X : Extended) : Extended
5455: Function ESB Log10( const X : Extended) : Extended
5456: Function ESB Log2( const X : Extended) : Extended
5457: Function ESB LogBase( const X, Base : Extended) : Extended
5458: Function Pow2( const X : Extended) : Extended
5459: Function IntPow( const Base : Extended; const Exponent : LongWord) : Extended
5460: Function ESB IntPower( const X : Extended; const N : LongInt) : Extended
5461: Function XtoY( const X, Y : Extended) : Extended
5462: Function esbTenToY( const Y : Extended) : Extended
5463: Function esbTwoToY( const Y : Extended) : Extended
5464: Function LogXtoBaseY( const X, Y : Extended) : Extended
5465: Function esbiISqrt( const I : LongWord) : Longword
5466: Function ILog2( const I : LongWord) : LongWord
5467: Function IGreatestPowerOf2( const N : LongWord) : LongWord
5468: Function ESB ArCosh( X : Extended) : Extended
5469: Function ESB ArSinh( X : Extended) : Extended
5470: Function ESB ArTanh( X : Extended) : Extended
5471: Function ESB Cosh( X : Extended) : Extended
5472: Function ESB Sinh( X : Extended) : Extended
5473: Function ESB Tanh( X : Extended) : Extended
5474: Function InverseGamma( const X : Extended) : Extended
5475: Function esbGamma( const X : Extended) : Extended
5476: Function esbLnGamma( const X : Extended) : Extended
5477: Function esbBeta( const X, Y : Extended) : Extended
5478: Function IncompleteBeta( X : Extended; P, Q : Extended) : Extended
5479: end;
5480:
5481: ***** Integer Huge Cardinal Utils*****
5482: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean) : uint64
5483: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean) : uint32
5484: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean) : uint64
5485: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean) : uint32
5486: Function BitCount_16( Value : byte) : integer
5487: Function BitCount_16( Value : uint16) : integer
5488: Function BitCount_32( Value : uint32) : integer
5489: Function BitCount_64( Value : uint64) : integer
5490: Function CountSetBits_64( Value : uint64) : integer TPrimalityTestNoticeProc',
5491: Procedure ( CountPrimalityTests : integer)
5492: Function gcd( a, b : THugeCardinal) : THugeCardinal
5493: Function lcm( a, b : THugeCardinal) : THugeCardinal
5494: Function isCoPrime( a, b : THugeCardinal) : boolean

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5495: Function isProbablyPrime(p : THugeCardinal;OnProgress : TProgress; var wasAborted: boolean) : boolean
5496: Function hasSmallFactor( p : THugeCardinal) : boolean
5497: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest:
5498: TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool;var Prime: THugeCardinal; var
5499: NumbersTested: integer) : boolean
5500: Function Inverse( Prime, Modulus : THugeCardinal) : THugeCardinal
5501: Const('StandardExponent','LongInt'( 65537));
5502: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
5503: Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
5504: Numbers
5505: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal) : boolean')
5506: begin
5507: AddTypeS('TXRTLInteger', 'array of Integer
5508: AddClassN(FindClass('TOBJECT'),'EXRTLMathException
5509: (FindClass('TOBJECT')),'EXRTLExtendInvalidArgument
5510: AddClassN(FindClass('TOBJECT')),'EXRTLDivisionByZero
5511: AddClassN(FindClass('TOBJECT')),'EXRTLExpInvalidArgument
5512: AddClassN(FindClass('TOBJECT')),'EXRTLInvalidRadix
5513: AddClassN(FindClass('TOBJECT')),'EXRTLInvalidRadixDigit
5514: AddClassN(FindClass('TOBJECT')),'EXRTLRootInvalidArgument
5515: 'BitsPerByte','LongInt'( 8);
5516: BitsPerDigit','LongInt'( 32);
5517: SignBitMask ','LongWord( $80000000);
5518: Function XRTLAdjustBits( const ABits : Integer) : Integer
5519: Function XRTLLength( const AInteger : TXRTLInteger) : Integer
5520: Function XRTLDatabits( const AInteger : TXRTLInteger) : Integer
5521: Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer)
5522: Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer)
5523: Procedure XRTLBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer)
5524: Function XRTLBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer) : Integer
5525: Function XRTLBitGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer) : Boolean
5526: Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int;var AResult:TXRTLInteger):Int;
5527: Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5528: Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5529: Function XRTLSignStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5530: Procedure XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5531: Procedure XRTLAnd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5532: Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5533: Function XRTLSign( const AInteger : TXRTLInteger) : Integer
5534: Procedure XRTLZero( var AInteger : TXRTLInteger)
5535: Procedure XRTLOne( var AInteger : TXRTLInteger)
5536: Procedure XRTLTTwo( var AInteger : TXRTLInteger)
5537: Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5538: Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5539: Procedure XRTLFULLSum( const A, B, C : Integer; var Sum, Carry : Integer)
5540: Function XRTLAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5541: Function XRTLAddl(const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5542: Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5543: Function XRTLSubl( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5544: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger) : Integer;
5545: Function XRTLComparel( const AInteger1 : TXRTLInteger; const AInteger2 : Int64) : Integer;
5546: Function XRTLMUL( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5547: Function XRTLMulAdd(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer
5548: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5549: Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger)
5550: Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5551: Procedure XRTLSqrt( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5552: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5553: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
      AHighApproxResult:TXRTLInteger)
5554: Procedure XRTLURootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
      AHighApproxResult:TXRTLInteger);
5555: Procedure XRTLEXP( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5556: Procedure XRTLEXPMOD( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult : TXRTLInteger)
5557: Procedure XRTLSLBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5558: Procedure XRTLSABL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5559: Procedure XRTLRCBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5560: Procedure XRTLSDL(const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger)
5561: Procedure XRTLSADL(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5562: Procedure XRTLRCDL(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5563: Procedure XRTLSLBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5564: Procedure XRTLSABR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5565: Procedure XRTLRCBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5566: Procedure XRTLSDLR(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5567: Procedure XRTLSADR(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5568: Procedure XRTLRCDR(const AInteger: TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger)
5569: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer) : string
5570: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer) : string
5571: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer) : string
5572: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger)
5573: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger)
5574: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer)
5575: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger);
5576: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger);
5577: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger);

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5578: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger)
5579: Procedure XRTLSplit(const AInteger: TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5580: Function XRTLGetMSBitIndex( const AInteger : TXRTLInteger) : Integer
5581: Procedure XRTLMinMax(const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger)
5582: Procedure XRTLMinl( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5583: Procedure XRTLMinl( const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger);
5584: Procedure XRTLMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5585: Procedure XRTLMaxl( const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger);
5586: Procedure XRTLCDC( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5587: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger)
5588: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5589: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5590: end;
5591:
5592: procedure SIRegister_JvXPCoreUtils(CL: TPSPascalCompiler);
5593: begin
5594:   Function JvXPMETHODSEqual( const Method1, Method2 : TMethod) : Boolean
5595:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer)
5596:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap);
5597:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect)
5598:   Procedure JvXPDrawBoundLines(const ACan:TCanvas;const BoundLns:TJvXPBoundLns;const
      AColor:TColor;Rect:TRect)
5599:   Procedure JvXPConvertToGray2( Bitmap : TBitmap)
5600:   Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer)
5601:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool;
5602:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor)
5603:   Procedure JvXPSetDrawFlags(const AAlignment: TAlignment;const AWordWrap: Boolean; var Flags : Integer)
5604:   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)
5605: end;
5606:
5607:
5608: procedure SIRegister_uwinstr(CL: TPSPascalCompiler);
5609: begin
5610:   Function StrDec( S : String ) : String
5611:   Function uIsNumeric( var S : String; var X : Float ) : Boolean
5612:   Function ReadNumFromEdit( Edit : TEdit ) : Float
5613:   Procedure WriteNumToFile( var F : Text; X : Float )
5614: end;
5615:
5616: procedure SIRegister_utexplot(CL: TPSPascalCompiler);
5617: begin
5618:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean ) : Boolean
5619:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
5620:   Procedure TeX_LeaveGraphics( Footer : Boolean)
5621:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
5622:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
5623:   Procedure TeX_SetGraphTitle( Title : String)
5624:   Procedure TeX_SetOxTitle( Title : string)
5625:   Procedure TeX_SetOyTitle( Title : String)
5626:   Procedure TeX_PlotOxAxis
5627:   Procedure TeX_PlotOyAxis
5628:   Procedure TeX_PlotGrid( Grid : TGrid)
5629:   Procedure TeX_WriteGraphTitle
5630:   Function TeX_SetMaxCurv( NCurv : Byte ) : Boolean
5631:   Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5632:   Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5633:   Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5634:   Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5635:   Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5636:   Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5637:   Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5638:   Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5639:   Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5640:   Function Xcm( X : Float ) : Float
5641:   Function Ycm( Y : Float ) : Float
5642: end;
5643:
5644: *-----*)
5645: procedure SIRegister_VarRecUtils(CL: TPSPascalCompiler);
5646: begin
5647:   TConstArray', 'array of TVarRec
5648:   Function CopyVarRec( const Item : TVarRec ) : TVarRec
5649:   Function CreateConstArray( const Elements : array of const ) : TConstArray
5650:   Procedure FinalizeVarRec( var Item : TVarRec)
5651:   Procedure FinalizeConstArray( var Arr : TConstArray)
5652: end;
5653:
5654: procedure SIRegister_StStrs(CL: TPSPascalCompiler);
5655: begin
5656:   Function HexBS( B : Byte) : ShortString
5657:   Function HexWS( W : Word) : ShortString
5658:   Function HexLS( L : LongInt) : ShortString
5659:   Function HexPtrs( P : Pointer ) : ShortString

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5660: Function BinaryBS( B : Byte) : ShortString
5661: Function BinaryWS( W : Word) : ShortString
5662: Function BinaryLS( L : LongInt) : ShortString
5663: Function OctalBS( B : Byte) : ShortString
5664: Function OctalWS( W : Word) : ShortString
5665: Function OctalLS( L : LongInt) : ShortString
5666: Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5667: Function Str2WordS( const S : ShortString; var I : Word) : Boolean
5668: Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5669: Function Str2RealS( const S : ShortString; var R : Double) : Boolean
5670: Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5671: Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5672: Function Long2StrS( L : LongInt) : ShortString
5673: Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5674: Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5675: Function ValPrepS( const S : ShortString) : ShortString
5676: Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5677: Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5678: Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5679: Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5680: Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5681: Function TrimLeadS( const S : ShortString) : ShortString
5682: Function TrimTrailsS( const S : ShortString) : ShortString
5683: Function TrimS( const S : ShortString) : ShortString
5684: Function TrimSpacesS( const S : ShortString) : ShortString
5685: Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5686: Function Centers( const S : ShortString; Len : Cardinal) : ShortString
5687: Function EntabS( const S : ShortString; TabSize : Byte) : ShortString
5688: Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5689: Function ScrambleS( const S, Key : ShortString) : ShortString
5690: Function SubstituteS( const S, FromStr,ToStr : ShortString) : ShortString
5691: Function Filters( const S, Filters : ShortString) : ShortString
5692: Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5693: Function CharCounts( const S : ShortString; C : AnsiChar) : Byte
5694: Function WordCounts( const S, WordDelims : ShortString) : Cardinal
5695: Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5696: Function ExtractWordS( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5697: Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5698: Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5699: Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5700: Procedure WordWraps(const Inst: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5701: Function CompStringS( const S1, S2 : ShortString) : Integer
5702: Function CompUCStringS( const S1, S2 : ShortString) : Integer
5703: Function SoundexS( const S : ShortString) : ShortString
5704: Function MakeLetterSetS( const S : ShortString) : Longint
5705: Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable)
5706: Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5707: Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
Pos:Cardinal):Bool;
5708: Function DefaultExtensionS( const Name, Ext : ShortString) : ShortString
5709: Function ForceExtensionS( const Name, Ext : ShortString) : ShortString
5710: Function JustFilenameS( const PathName : ShortString) : ShortString
5711: Function JustNameS( const PathName : ShortString) : ShortString
5712: Function JustExtensionS( const Name : ShortString) : ShortString
5713: Function JustPathnameS( const PathName : ShortString) : ShortString
5714: Function AddBackSlashS( const DirName : ShortString) : ShortString
5715: Function CleanPathNameS( const PathName : ShortString) : ShortString
5716: Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal) : Boolean
5717: Function CommaizeS( L : LongInt) : ShortString
5718: Function CommaizeChS( L : Longint; Ch : AnsiChar) : ShortString
5719: Function FloatFormS(const Mask:ShortString;R:TstFloat;const LtCurr,RtCurr:SString;Sep,
DecPt:Char):ShortString;
5720: Function LongIntFormS(const Mask:ShortString;L:LongInt,const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5721: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal) : Boolean
5722: Function StrRPosS( const P, S : ShortString; var Pos : Cardinal) : Boolean
5723: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5724: Function StrChInsertS( const S : shortString; C : AnsiChar; Pos : Cardinal) : ShortString
5725: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal) : ShortString
5726: Function StrChDeleteS( const S : ShortString; Pos : Cardinal) : ShortString
5727: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5728: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5729: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5730: Function CopyLeftS( const S : ShortString; Len : Cardinal) : ShortString
5731: Function CopyMidS( const S : ShortString; First, Len : Cardinal) : ShortString
5732: Function CopyRightS( const S : ShortString; First : Cardinal) : ShortString
5733: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal) : ShortString
5734: Function CopyFromNthWordS(const S,WordDelims:string;const AWord:String;N:Card;var
SubString:ShortString):Bool;
5735: Function DeleteFromNthWordS(const S,WordDelims:String;AWord:ShortString;N:Card;var
SubStr:ShortString):Bool;
5736: Function CopyFromToWordS(const S,WordDelims,Word1,Word2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5737: Function DeleteFromToWords(const S,WordDelims,Wrd1,Wrd2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5738: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean) : ShortString
5739: Function DeleteWithinS( const S, Delimiter : ShortString) : ShortString

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5740: Function ExtractTokensS( const S,
5741:   Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings ) : Cardinal
5742: Function IsChAlphaS( C : Char ) : Boolean
5743: Function IsChNumericS( C : Char; const Numbers : ShortString ) : Boolean
5743: Function IsChAlphaNumerics( C : Char; const Numbers : ShortString ) : Boolean
5744: Function IsStrAlphaS( const S : Shortstring ) : Boolean
5745: Function IsStrNumericS( const S, Numbers : ShortString ) : Boolean
5746: Function IsStrAlphaNumericS( const S, Numbers : ShortString ) : Boolean
5747: Function LastWordS( const S, WordDelims, AWord : ShortString; var Position : Cardinal ) : Boolean
5748: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal ) : Boolean
5749: Function LastStringS( const S, AString : ShortString; var Position : Cardinal ) : Boolean
5750: Function LeftTrimCharsS( const S, Chars : ShortString ) : ShortString
5751: Function KeepCharsS( const S, Chars : ShortString ) : ShortString
5752: Function RepeatStringS( const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen : Cardinal):ShortString;
5753: Function ReplaceStringS( const S,OldStr,NewStr:ShortString;N:Cardinal;var Replacements:Cardinal):ShortString;
5754: Function ReplaceStringAllS( const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5755: Function ReplaceWordS( const S,WordDelims,OldWord,NewW:SString;N:Cardinal;var Replacements:Cardinal):ShortString
5756: Function ReplaceWordAllS( const S,WordDelims,OldWord,NewWord:ShortString;var Replacements:Cardinal):ShortString
5757: Function RightTrimCharsS( const S, Chars : ShortString ) : ShortString
5758: Function StrWithinS( const S,SearchStr: ShortString;Start:Cardinal;var Position:Cardinal):boolean
5759: Function TrimCharsS( const S, Chars : ShortString ) : ShortString
5760: Function WordPosS( const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5761: end;
5762:
5763:
5764: *****unit uPSI_StUtils; from Systools4*****
5765: Function SignL( L : LongInt ) : Integer
5766: Function SignF( F : Extended ) : Integer
5767: Function MinWord( A, B : Word ) : Word
5768: Function MidWord( W1, W2, W3 : Word ) : Word
5769: Function MaxWord( A, B : Word ) : Word
5770: Function MinLong( A, B : LongInt ) : LongInt
5771: Function MidLong( L1, L2, L3 : LongInt ) : LongInt
5772: Function MaxLong( A, B : LongInt ) : LongInt
5773: Function MinFloat( F1, F2 : Extended ) : Extended
5774: Function MidFloat( F1, F2, F3 : Extended ) : Extended
5775: Function MaxFloat( F1, F2 : Extended ) : Extended
5776: Function MakeInteger16( H, L : Byte ) : SmallInt
5777: Function MakeWordS( H, L : Byte ) : Word
5778: Function SwapNibble( B : Byte ) : Byte
5779: Function SwapWord( L : LongInt ) : LongInt
5780: Procedure SetFlag( var Flags : Word; FlagMask : Word )
5781: Procedure ClearFlag( var Flags : Word; FlagMask : Word )
5782: Function FlagIsSet( Flags, FlagMask : Word ) : Boolean
5783: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte )
5784: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte )
5785: Function ByteFlagIsSet( Flags, FlagMask : Byte ) : Boolean
5786: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt )
5787: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt )
5788: Function LongFlagIsSet( Flags, FlagMask : LongInt ) : Boolean
5789: Procedure ExchangeBytes( var I, J : Byte )
5790: Procedure ExchangeWords( var I, J : Word )
5791: Procedure ExchangeLongInts( var I, J : LongInt )
5792: Procedure ExchangeStructs( var I, J, Size : Cardinal )
5793: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word )
5794: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal )
5795: Function AddWordToPtr( P : __Pointer; W : Word ) : __Pointer
5796: //*****uPSI_StFIN;*****
5797: Function AccruedInterestMaturity( Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis) : Extended
5798: Function AccruedInterestPeriodic( Issue,Settlement,Maturity:TStDate;Rate,Par:Extended;Frequency:TStFrequency; Basis : TStBasis) : Extended
5799: Function BondDuration( Settlement,Maturity:TStDate;Rate,Yield:Ext;Frequency:TStFrequency;Basis:TStBasis):Extended;
5800: Function BondPrice(Settlement,Maturity:TStDate;Rate,Yield,Redempt:Ext;Freq:TStFrequency;Basis:TStBasis): Extended
5801: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod : Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5802: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod : Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5803: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis ) : LongInt
5804: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer ) : Extended
5805: Function DiscountRate( Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis) : Extended;
5806: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5807: Function DollarToDecimalText( DecDollar : Extended ) : string
5808: Function DollarToFraction( DecDollar : Extended; Fraction : Integer ) : Extended
5809: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer ) : string
5810: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency ) : Extended
5811: Function FutureValueS( Rate:Extended;NPeriods:Int;Pmt, PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended;
5812: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5813: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5814: Function InterestRateS(NPeriods:Int;Pmt,PV,FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5815: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5816: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended

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5817: Function IsCardValid( const S : string ) : Boolean
5818: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5819: Function ModifiedIRR(const Values: array of Double; FinanceRate,ReinvestRate: Extended) : Extended
5820: Function ModifiedIRR16(const Values:Integer; FinanceRate,ReinvestRate: Extended) : Extended
5821: Function NetPresentValueS( Rate : Extended; const Values : array of Double ) : Extended
5822: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer ) : Extended
5823: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency ) : Extended
5824: Function NonperiodicIRR(const Values:array of Double;const Dates:TStDate;Guess:Extended):Extended;
5825: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5826: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
: TStPaymentTime) : Extended
5827: Function Periods(Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5828: Function PresentValueS( Rate: Extended; NPeriods: Integer; Pmt, FV: Extended; Frequency: TStFrequency;
Timing: TStPaymentTime): Extended
5829: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5830: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5831: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5832: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5833: Function TBillyield( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5834: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
Factor : Extended; NoSwitch : boolean ) : Extended
5835: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5836: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5837: Function YieldMaturity(Issue,Settlement,Maturity:TStDate;Rate,Price:Extended;Basis:TStBasis):Extended;
5838:
5839: //*****unit uPSI_StAstroP;
5840: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5841: //*****unit unit uPSI_StStat; Statistic Package of SysTools*****
5842: Function AveDev( const Data : array of Double ) : Double
5843: Function AveDev16( const Data, NData : Integer ) : Double
5844: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5845: Function Correlation( const Data1, Data2 : array of Double ) : Double
5846: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5847: Function Covariance( const Data1, Data2 : array of Double ) : Double
5848: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5849: Function DevSq( const Data : array of Double ) : Double
5850: Function DevSq16( const Data, NData : Integer ) : Double
5851: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5852: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5853: Function GeometricMeanS( const Data : array of Double ) : Double
5854: Function GeometricMean16( const Data, NData : Integer ) : Double
5855: Function HarmonicMeanS( const Data : array of Double ) : Double
5856: Function HarmonicMean16( const Data, NData : Integer ) : Double
5857: Function Largest( const Data : array of Double; K : Integer ) : Double
5858: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5859: Function MedianS( const Data : array of Double ) : Double
5860: Function Median16( const Data, NData : Integer ) : Double
5861: Function Mode( const Data : array of Double ) : Double
5862: Function Mode16( const Data, NData : Integer ) : Double
5863: Function Percentile( const Data : array of Double; K : Double ) : Double
5864: Function Percentile16( const Data, NData : Integer; K : Double ) : Double
5865: Function PercentRank( const Data : array of Double; X : Double ) : Double
5866: Function PercentRank16( const Data, NData : Integer; X : Double ) : Double
5867: Function Permutations( Number, NumberChosen : Integer ) : Extended
5868: Function Combinations( Number, NumberChosen : Integer ) : Extended
5869: Function Factorials( N : Integer ) : Extended
5870: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean ) : Integer
5871: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean ) : Integer
5872: Function Smallest( const Data : array of Double; K : Integer ) : Double
5873: Function Smallest16( const Data, NData : Integer; K : Integer ) : Double
5874: Function TrimMean( const Data : array of Double; Percent : Double ) : Double
5875: Function TrimMean16( const Data, NData : Integer; Percent : Double ) : Double
5876: AddTypeS('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB' );
5877: + '1 : Double; R2 : Double; sigma :Double; SSr: double; SSe: Double; F0 : Double; df : Integer;end
5878: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var
LF:TStLinEst;ErrorStats:Bool;
5879: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var
LF:TStLinEst;ErrorStats:Bool;
5880: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5881: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5882: Function Intercept( const KnownY : array of Double; const KnownX : array of Double ) : Double
5883: Function RSquared( const KnownY : array of Double; const KnownX : array of Double ) : Double
5884: Function Slope( const KnownY : array of Double; const KnownX : array of Double ) : Double
5885: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double ) : Double
5886: Function Betadist( X, Alpha, Beta, A, B : Single ) : Single
5887: Function BetaInv( Probability, Alpha, Beta, A, B : Single ) : Single
5888: Function BinomDist( Numbers, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean ) : Single
5889: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single ) : Integer
5890: Function ChiDist( X : Single; DegreesFreedom : Integer ) : Single
5891: Function ChiInv( Probability : Single; DegreesFreedom : Integer ) : Single
5892: Function ExponDist( X, Lambda : Single; Cumulative : Boolean ) : Single
5893: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5894: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5895: Function LogNormDist( X, Mean, StandardDev : Single ) : Single
5896: Function LogInv( Probability, Mean, StandardDev : Single ) : Single
5897: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean ) : Single
5898: Function NormInv( Probability, Mean, StandardDev : Single ) : Single

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5899: Function NormSDist( Z : Single) : Single
5900: Function NormSInv( Probability : Single) : Single
5901: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5902: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5903: Function TInv( Probability : Single; DegreesFreedom : Integer) : Single
5904: Function Erfc( X : Single) : Single
5905: Function GammaLn( X : Single) : Single
5906: Function LargestSort( const Data : array of Double; K : Integer) : Double
5907: Function SmallestSort( const Data : array of double; K : Integer) : Double
5908:
5909: procedure SIRegister_TStSorter(CL: TPPascalCompiler);
5910: Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt ) : LongInt
5911: Function MinimumHeapToUse( RecLen : Cardinal ) : LongInt
5912: Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt ) : TMergeInfo
5913: Function DefaultMergeName( MergeNum : Integer) : string
5914: Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5915:
5916: procedure SIRegister_StAstro(CL: TPPascalCompiler);
5917: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double) : TStTime
5918: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double) : TStRiseSetRec
5919: Function SunPos( UT : TStDateTimeRec) : TStPosRec
5920: Function SunPosPrim( UT : TStDateTimeRec) : TStSunXYZRec
5921: Function SunriseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5922: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5923: Function LunarPhase( UT : TStDateTimeRec) : Double
5924: Function MoonPos( UT : TStDateTimeRec) : TStMoonPosRec
5925: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5926: Function FirstQuarter( D : TStDate) : TStLunarRecord
5927: Function FullMoon( D : TStDate) : TStLunarRecord
5928: Function LastQuarter( D : TStDate) : TStLunarRecord
5929: Function NewMoon( D : TStDate) : TStLunarRecord
5930: Function NextFirstQuarter( D : TStDate) : TStDateTimeRec
5931: Function NextFullMoon( D : TStDate) : TStDateTimeRec
5932: Function NextLastQuarter( D : TStDate) : TStDateTimeRec
5933: Function NextNewMoon( D : TStDate) : TStDateTimeRec
5934: Function PrevFirstQuarter( D : TStDate) : TStDateTimeRec
5935: Function PrevFullMoon( D : TStDate) : TStDateTimeRec
5936: Function PrevLastQuarter( D : TStDate) : TStDateTimeRec
5937: Function PrevNewMoon( D : TStDate) : TStDateTimeRec
5938: Function SiderealTime( UT : TStDateTimeRec) : Double
5939: Function Solstice( Y, Epoch : Integer; Summer : Boolean) : TStDateTimeRec
5940: Function Equinox( Y, Epoch : Integer; Vernal : Boolean) : TStDateTimeRec
5941: Function SEaster( Y, Epoch : Integer) : TStDate
5942: Function DateToAjd( D : TDate) : Double
5943: Function HoursMin( RA : Double) : ShortString
5944: Function DegrMin( DC : Double) : ShortString
5945: Function AJDToDate( D : Double) : TDate
5946:
5947: Procedure SIRegister_StDate(CL: TPPascalCompiler);
5948: Function CurrentDate : TStDate
5949: Function StValidDate( Day, Month, Year, Epoch : Integer) : Boolean
5950: Function DMYtoStDate( Day, Month, Year, Epoch : Integer) : TStDate
5951: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer)
5952: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer) : TStDate
5953: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer) : TStDate
5954: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer)
5955: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType) : TStDate
5956: Function WeekOfYear( Julian : TStDate) : Byte
5957: Function AstJulian( Julian : TStDate) : Double
5958: Function AstJulianDatestoStDate( AstJulian : Double; Truncate : Boolean) : TStDate
5959: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime) : Double
5960: Function StDayOfWeek( Julian : TStDate) : TStDayType
5961: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer) : TStDayType
5962: Function StIsLeapYear( Year : Integer) : Boolean
5963: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer) : Integer
5964: Function ResolveEpoch( Year, Epoch : Integer) : Integer
5965: Function ValidTime( Hours, Minutes, Seconds : Integer) : Boolean
5966: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte)
5967: Function HMStoStTime( Hours, Minutes, Seconds : Byte) : TStTime
5968: Function CurrentTime : TStTime
5969: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte)
5970: Function StInTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5971: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5972: Function RoundToNearestHour( T : TStTime; Truncate : Boolean) : TStTime
5973: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean) : TStTime
5974: Procedure DateTimeDiff(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt)
5975: Procedure IncDateTime(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt)
5976: Function DateTimeToStDate( DT : TDate) : TStDate
5977: Function DateTimeToStTime( DT : TDate) : TStTime
5978: Function StDateToDateTime( D : TStDate) : TDateTime
5979: Function StTimeToDateTime( T : TStTime) : TDateTime
5980: Function Convert2ByteDate( TwoByteDate : Word) : TStDate
5981: Function Convert4ByteDate( FourByteDate : TStDate) : Word
5982:
5983: Procedure SIRegister_StDateSt(CL: TPPascalCompiler);
5984: Function DateStringHMStoAstJD( const Picture, DS : string; H, M, S, Epoch : integer) : Double
5985: Function MonthToString( const Month : Integer) : string
5986: Function DateStringToStDate( const Picture, S : string; Epoch : Integer) : TStDate
5987: Function DateStringToDMY(const Picture,S:string; Epoch:Integer; var D, M, Y : Integer):Boolean

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5988: Function StDateToString( const Picture : string; Julian : TStDate; Pack : Boolean) : string
5989: Function DayOfWeekToString( const WeekDay : TStDayType) : string
5990: Function DMYToString( const Picture : string; Day, Month, Year, Epoch : Integer; Pack : Boolean) : string
5991: Function CurrentDateString( const Picture : string; Pack : Boolean) : string
5992: Function CurrentTimeString( const Picture : string; Pack : Boolean) : string
5993: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer) : Boolean
5994: Function TimeStringToSTime( const Picture, S : string) : TStTime
5995: Function STimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5996: Function STimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5997: Function DateStringIsBlank( const Picture, S : string) : Boolean
5998: Function InternationalDate( ForceCentury : Boolean) : string
5999: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean) : string
6000: Function InternationalTime( ShowSeconds : Boolean) : string
6001: Procedure ResetInternationalInfo
6002:
6003: procedure SIRegister_StBase(CL: TPSPascalCompiler);
6004: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer) : Boolean
6005: Function AnsiUpperCaseShort32( const S : string) : string
6006: Function AnsiCompareTextShort32( const S1, S2 : string) : Integer
6007: Function AnsiCompareStrShort32( const S1, S2 : string) : Integer
6008: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer) : Longint
6009: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer, OutLen : LongInt) : Longint
6010: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte)
6011: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal)
6012: Function UpCase( C : AnsiChar) : AnsiChar
6013: Function LoCase( C : AnsiChar) : AnsiChar
6014: Function CompareLetterSets( Set1, Set2 : LongInt) : Cardinal
6015: Function CompStruct( const S1, S2, Size : Cardinal) : Integer
6016: Function Search( const Buffer, BufLength:Cardinal; const Match, MatLength:Cardinal; var Pos:Cardinal) : Bool;
6017: Function StSearch( const Buffer, BufLength:Cardinal; const Match, MatLength:Cardinal; var Pos:Cardinal) : Boolean
6018: Function SearchUC( const Buffer, BufLength:Cardinal; const Match, MatLength:Cardinal; var Pos:Cardinal) : Boolean
6019: Function IsOrInheritsFrom( Root, Candidate : TClass) : boolean
6020: Procedure RaiseContainerError( Code : longint)
6021: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const)
6022: Function ProductOverflow( A, B : LongInt) : Boolean
6023: Function StNewStr( S : string) : PShortString
6024: Procedure StDisposeStr( PS : PShortString)
6025: Procedure ValLongInt( S : ShortString; var LI : Longint; var ErrorCode : integer)
6026: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer)
6027: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer)
6028: Procedure RaiseStError( ExceptionClass : EStExceptionClass; Code : LongInt)
6029: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt)
6030: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string)
6031:
6032: procedure SIRegister_usvd(CL: TPSPascalCompiler);
6033: begin
6034:   Procedure SV_DecomP( A : TMatrix; Lb, Ubl, Ub2 : Integer; S : TVector; V : TMatrix)
6035:   Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float)
6036:   Procedure SV_Solve(U:TMatrix; S:TVector; V:TMatrix; B:TVector; Lb, Ubl, Ub2:Integer; X:TVector);
6037:   Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ubl, Ub2 : Integer; A : TMatrix)
6038:   Procedure RKF45(F:TDiffEqs; Neqn:Int; Y,Yp:TVector; var T:Float; Tout, RelErr, AbsErr:Float; var Flag:Int);
6039: end;
6040:
6041: //*****unit unit ; StMath Package of SysTools*****
6042: Function IntPowerS( Base : Extended; Exponent : Integer) : Extended
6043: Function PowerS( Base, Exponent : Extended) : Extended
6044: Function StInvCos( X : Double) : Double
6045: Function StInvSin( Y : Double) : Double
6046: Function StInvTan2( X, Y : Double) : Double
6047: Function StTan( A : Double) : Double
6048: Procedure DumpException; //unit StExpEng;
6049: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
6050:
6051: //*****unit unit ; STCRC Package of SysTools*****
6052: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6053: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6054: Function Adler32OfFile( FileName : AnsiString) : LongInt
6055: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6056: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6057: Function Crc16OfFile( FileName : AnsiString) : Cardinal
6058: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6059: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6060: Function Crc32OfFile( FileName : AnsiString) : LongInt
6061: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6062: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6063: Function InternetSumOfFile( FileName : AnsiString) : Cardinal
6064: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6065: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6066: Function Kermit16OfFile( FileName : AnsiString) : Cardinal
6067:
6068: //*****unit unit ; StBCD Package of SysTools*****
6069: Function AddBcd( const B1, B2 : TbcdS) : TbcdS
6070: Function SubBcd( const B1, B2 : TbcdS) : TbcdS
6071: Function MulBcd( const B1, B2 : TbcdS) : TbcdS
6072: Function DivBcd( const B1, B2 : TbcdS) : TbcdS
6073: Function ModBcd( const B1, B2 : TbcdS) : TbcdS
6074: Function NegBcd( const B : TbcdS) : TbcdS
6075: Function AbsBcd( const B : TbcdS) : TbcdS
6076: Function FracBcd( const B : TbcdS) : TbcdS

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6077: Function IntBcd( const B : TbcdS ) : TbcdS
6078: Function RoundDigitsBcd( const B : TbcdS; Digits : Cardinal ) : TbcdS
6079: Function RoundPlacesBcd( const B : TbcdS; Places : Cardinal ) : TbcdS
6080: Function ValBcd( const S : string ) : TbcdS
6081: Function LongBcd( L : LongInt ) : TbcdS
6082: Function ExtBcd( E : Extended ) : TbcdS
6083: Function ExpBcd( const B : TbcdS ) : TbcdS
6084: Function LnBcd( const B : TbcdS ) : TbcdS
6085: Function IntPowBcd( const B : TbcdS; E : LongInt ) : TbcdS
6086: Function PowBcd( const B, E : TbcdS ) : TbcdS
6087: Function SqrtBcd( const B : TbcdS ) : TbcdS
6088: Function CmpBcd( const B1, B2 : TbcdS ) : Integer
6089: Function EqDigitsBcd( const B1, B2 : TbcdS; Digits : Cardinal ) : Boolean
6090: Function EqPlacesBcd( const B1, B2 : TbcdS; Digits : Cardinal ) : Boolean
6091: Function IsIntBcd( const B : TbcdS ) : Boolean
6092: Function TruncBcd( const B : TbcdS ) : LongInt
6093: Function BcdExt( const B : TbcdS ) : Extended
6094: Function RoundBcd( const B : TbcdS ) : LongInt
6095: Function StrBcd( const B : TbcdS; Width, Places : Cardinal ) : string
6096: Function StrExpBcd( const B : TbcdS; Width : Cardinal ) : string
6097: Function FormatBcd( const Format : string; const B : TbcdS ) : string
6098: Function StrGeneralBcd( const B : TbcdS ) : string
6099: Function FloatFormBcd(const Mask:string;B:TbcdS;const LtCurr:string;Sep,DecPt:AnsiChar):string
6100: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte)
6101:
6102: //*****unit unit ; StTxtData; TStTextDataRecordSet Package of SysTools*****
6103: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings)
6104: Function StFieldTypeToStr( FieldType : TStSchemaFieldType ) : AnsiString
6105: Function StStrToFieldType( const S : AnsiString ) : TStSchemaFieldType
6106: Function StDeEscape( const EscStr : AnsiString ) : Char
6107: Function StDoEscape( Delim : Char ) : AnsiString
6108: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char ) : AnsiString
6109: Function AnsiHashText( const S : string; Size : Integer ) : Integer
6110: Function AnsiHashStr( const S : string; Size : Integer ) : Integer
6111: Function AnsiELFHashText( const S : string; Size : Integer ) : Integer
6112: Function AnsiELFHashStr( const S : string; Size : Integer ) : Integer
6113:
6114: //*****unit unit ; StNetCon Package of SysTools*****
6115: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6116:   Constructor Create( AOwner : TComponent )
6117:   Function Connect : DWord
6118:   Function Disconnect : DWord
6119:   RegisterProperty('Password', 'String', iptrw);
6120:   Property('UserName', 'String', iptrw);
6121:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6122:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6123:   Property('LocalDevice', 'String', iptrw);
6124:   Property('ServerName', 'String', iptrw);
6125:   Property('ShareName', 'String', iptrw);
6126:   Property('OnConnect', 'TNotifyEvent', iptrw);
6127:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6128:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6129:   Property('OnDisconnect', 'TNotifyEvent', iptrw);
6130:   Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6131:   Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6132: end;
6133: //*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6134: / /153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6135: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection )
6136: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection )
6137: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection )
6138: Function InitializeCriticalSectionAndSpinCount(var
6139:   lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6140: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6141: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL
6142: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection )
6143: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL
6144: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL
6145: Function SuspendThread( hThread : THandle ) : DWORD
6146: Function ResumeThread( hThread : THandle ) : DWORD
6147: Function CreateThread2(ThreadFunc: TThreadFunction2; thrid: DWord) : THandle
6148: Function GetCurrentThread : THandle
6149: Procedure ExitThread( dwExitCode : DWORD )
6150: Function TerminateThread( hThread : THandle; dwExitCode : DWORD ) : BOOL
6151: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD ) : BOOL
6152: Procedure EndThread(ExitCode: Integer);
6153: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD
6154: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC
6155: Procedure FreeProcInstance( Proc : FARPROC )
6156: Function DisableThreadLibraryCalls( hLibModule : HMODULE; dwExitCode : DWORD ) : BOOL
6157: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6158: Procedure ParallelJob1( ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6159: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Ptr;AParam:Pointer;ASafeSection:bool);
6160: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection:boolean );
6161: Function CreateParallelJob(ASelf:TObject;ATarget:Pointer;AParam:Ptr;ASafeSection:bool:TParallelJob);
6162: Function CreateParallelJob1(ATarget:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6163: Function CurrentParallelJobInfo : TParallelJobInfo
6164: Function ObtainParallelJobInfo : TParallelJobInfo

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6165: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo)'';
6166: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD) : BOOL';
6167: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle) : BOOL';
6168: Function
  DeviceIoControl(hDevice:THandle;dwIoControlCode:DWORD;lpInBuffer:TOBJECT;nInBufferSize:DWORD;lpOutBuffer:
  TOBJECT; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped:TOverlapped):BOOL';
6169: Function SetFileTime(hFile:THandle;lpCreationTime,lpLastAccessTime,lpLastWriteTime:TFILETIME): BOOL';
6170: Function DuplicateHandle(hSourceProcessHandle,hSourceHandle,hTargetProcessHandle:THandle;
  lpTargetHandle:THandle; dwDesiredAccess : DWORD; bInheritHandle:BOOL; dwOptions : DWORD) : BOOL';
6171: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD) : BOOL';
6172: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD) : BOOL';
6173:
6174: *****unit uPSI_JclMime;
6175: Function MimeEncodeString( const S : AnsiString) : AnsiString
6176: Function MimeDecodeString( const S : AnsiString) : AnsiString
6177: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream)
6178: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream)
6179: Function MimeEncodedSize( const I : Cardinal) : Cardinal
6180: Function MimeDecodedSize( const I : Cardinal) : Cardinal
6181: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer)
6182: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6183: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
  OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : Cardinal
6184: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card):Cardinal;
6185:
6186: *****unit uPSI_JclPrint;
6187: Procedure DirectPrint( const Printer, Data : string)
6188: Procedure SetPrinterPixelsPerInch
6189: Function GetPrinterResolution : TPoint
6190: Function CharFitsWithinDots( const Text : string; const Dots : Integer) : Integer
6191: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect)
6192:
6193:
6194: //*****unit uPSI_ShLwApi;*****
6195: Function StrChr( lpStart : PChar; wMatch : WORD) : PChar
6196: Function StrChri( lpStart : PChar; wMatch : WORD) : PChar
6197: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6198: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6199: Function StrCSpn( lpStr_, lpSet : PChar) : Integer
6200: Function StrCSpnI( lpStr1, lpSet : PChar) : Integer
6201: Function StrDup( lpSrch : PChar) : PChar
6202: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT) : PChar
6203: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT) : PChar
6204: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6205: Function StrIsIntEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6206: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6207: Function StrPBrk( psz, pszSet : PChar) : PChar
6208: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD) : PChar
6209: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD) : PChar
6210: Function StrRStrI( lpSource, lpLast, lpSrch : PChar) : PChar
6211: Function StrSpan( psz, pszSet : PChar) : Integer
6212: Function StrStr( lpFirst, lpSrch : PChar) : PChar
6213: Function StrStrI( lpFirst, lpSrch : PChar) : PChar
6214: Function StrToInt( lpSrch : PChar) : Integer
6215: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer) : BOOL
6216: Function StrTrim( psz : PChar; pszTrimChars : PChar) : BOOL
6217: Function ChrCmpI( w1, w2 : WORD) : BOOL
6218: Function ChrCmpIA( w1, w2 : WORD) : BOOL
6219: Function ChrCmpIW( w1, w2 : WORD) : BOOL
6220: Function StrIntlEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6221: Function StrIntlEqNI( s1, s2 : PChar; nChar : Integer) : BOOL
6222: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer) : PChar
6223: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6224: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6225: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6226: SZ_CONTENTTYPE_HTML, 'String 'text/html'
6227: SZ_CONTENTTYPE_HTMLW, 'String 'text/html'
6228: SZ_CONTENTTYPE_HTML, 'string SZ_CONTENTTYPE_HTML';
6229: SZ_CONTENTTYPE_CDFA, 'String 'application/x-cdf'
6230: SZ_CONTENTTYPE_CDFW, 'String 'application/x-cdf'
6231: SZ_CONTENTTYPE_CDF, 'string SZ_CONTENTTYPE_CDFA';
6232: Function PathIsHTMLFile( pszPath : PChar) : BOOL
6233: STIF_DEFAULT, 'LongWord( $00000000)';
6234: STIF_SUPPORT_HEX, 'LongWord( $00000001)';
6235: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6236: Function StrNCopy( psz1, psz2 : PChar; cchMax : Integer) : PChar
6237: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6238: Function PathAddBackslash( pszPath : PChar; pszExt : PChar) : BOOL
6239: Function PathAddExtension( pszPath : PChar; pszExt : PChar) : BOOL
6240: Function PathAppend( pszRoot : PChar; pMore : PChar) : BOOL
6241: Function PathBuildRoot( szRoot : PChar; iDrive : Integer) : PChar
6242: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar) : BOOL
6243: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar) : PChar
6244: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT) : BOOL
6245: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD) : BOOL
6246: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar) : Integer
6247: Function PathFileExists( pszPath : PChar) : BOOL
6248: Function PathFindExtension( pszPath : PChar) : PChar

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6249: Function PathFindFileName( pszPath : PChar ) : PChar
6250: Function PathFindNextComponent( pszPath : PChar ) : PChar
6251: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6252: Function PathGetArgs( pszPath : PChar ) : PChar
6253: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6254: Function PathIsLFNfileSpec( lpName : PChar ) : BOOL
6255: Function PathGetCharType( ch : Char ) : UINT
6256: GCT_INVALID', 'LongWord( $0000);
6257: GCT_LFNCHAR', 'LongWord( $0001);
6258: GCT_SHORTCHAR', 'LongWord( $0002);
6259: GCT_WILD', 'LongWord( $0004);
6260: GCT_SEPARATOR', 'LongWord( $0008);
6261: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6262: Function PathIsDirectory( pszPath : PChar ) : BOOL
6263: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6264: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6265: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6266: Function PathIsRelative( pszPath : PChar ) : BOOL
6267: Function PathIsRoot( pszPath : PChar ) : BOOL
6268: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6269: Function PathIsUNC( pszPath : PChar ) : BOOL
6270: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6271: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6272: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6273: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6274: Function PathIsURL( pszPath : PChar ) : BOOL
6275: Function PathMakePretty( pszPath : PChar ) : BOOL
6276: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6277: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6278: Procedure PathQuoteSpaces( lpsz : PChar )
6279: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6280: Procedure PathRemoveArgs( pszPath : PChar )
6281: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6282: Procedure PathRemoveBlanks( pszPath : PChar )
6283: Procedure PathRemoveExtension( pszPath : PChar )
6284: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6285: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6286: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6287: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar )
6288: Function PathSkipRoot( pszPath : PChar ) : PChar
6289: Procedure PathStripPath( pszPath : PChar )
6290: Function PathStripToRoot( pszPath : PChar ) : BOOL
6291: Procedure PathUnquoteSpaces( lpsz : PChar )
6292: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6293: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6294: Function PathIsSystemFolder( pszPath : PChar; dwAttrib : DWORD ) : BOOL
6295: Procedure PathUndecorate( pszPath : PChar )
6296: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6297: URL_SCHEME_INVALID', 'LongInt'( - 1);
6298: URL_SCHEME_UNKNOWN', 'LongInt'( 0 );
6299: URL_SCHEME_FTP', 'LongInt'( 1 );
6300: URL_SCHEME_HTTP', 'LongInt'( 2 );
6301: URL_SCHEME_GOPHER', 'LongInt'( 3 );
6302: URL_SCHEME_MAILTO', 'LongInt'( 4 );
6303: URL_SCHEME_NEWS', 'LongInt'( 5 );
6304: URL_SCHEME_NNTP', 'LongInt'( 6 );
6305: URL_SCHEME_TELNET', 'LongInt'( 7 );
6306: URL_SCHEME_WAIS', 'LongInt'( 8 );
6307: URL_SCHEME_FILE', 'LongInt'( 9 );
6308: URL_SCHEME_MK', 'LongInt'( 10 );
6309: URL_SCHEME_HTTPS', 'LongInt'( 11 );
6310: URL_SCHEME_SHELL', 'LongInt'( 12 );
6311: URL_SCHEME_SNEWS', 'LongInt'( 13 );
6312: URL_SCHEME_LOCAL', 'LongInt'( 14 );
6313: URL_SCHEME_JAVASCRIPT', 'LongInt'( 15 );
6314: URL_SCHEME_VBSCRIPT', 'LongInt'( 16 );
6315: URL_SCHEME_ABOUT', 'LongInt'( 17 );
6316: URL_SCHEME_RES', 'LongInt'( 18 );
6317: URL_SCHEME_MAXVALUE', 'LongInt'( 19 );
6318: URL_SCHEME', 'Integer
6319: URL_PART_NONE', 'LongInt'( 0 );
6320: URL_PART_SCHEME', 'LongInt'( 1 );
6321: URL_PART_HOSTNAME', 'LongInt'( 2 );
6322: URL_PART_USERNAME', 'LongInt'( 3 );
6323: URL_PART_PASSWORD', 'LongInt'( 4 );
6324: URL_PART_PORT', 'LongInt'( 5 );
6325: URL_PART_QUERY', 'LongInt'( 6 );
6326: URL_PART', 'DWORD
6327: URLIS_URL', 'LongInt'( 0 );
6328: URLIS_OPAQUE', 'LongInt'( 1 );
6329: URLIS_NOHISTORY', 'LongInt'( 2 );
6330: URLIS_FILEURL', 'LongInt'( 3 );
6331: URLIS_APPLICABLE', 'LongInt'( 4 );
6332: URLIS_DIRECTORY', 'LongInt'( 5 );
6333: URLIS_HASQUERY', 'LongInt'( 6 );
6334: TUrlis', 'DWORD
6335: URL_UNESCAPE', 'LongWord( $10000000);
6336: URL_ESCAPE_UNSAFE', 'LongWord( $20000000);
6337: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000);

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6338: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6339: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000 );
6340: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000 );
6341: URL_DONT_SIMPLIFY', 'LongWord( $08000000 );
6342: URL_NO_META', 'longword( URL_DONT_SIMPLIFY );
6343: URL_UNESCAPE_INPLACE', 'LongWord( $00100000 );
6344: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000 );
6345: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000 );
6346: URL_INTERNAL_PATH', 'LongWord( $00800000 );
6347: URL_FILE_USE_PATHURL', 'LongWord( $00010000 );
6348: URL_ESCAPE_PERCENT', 'LongWord( $00001000 );
6349: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000 );
6350: URL_PARTFLAG_KEEPSCHEME', 'LongWord( $00000001 );
6351: URL_APPLY_DEFAULT', 'LongWord( $00000001 );
6352: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002 );
6353: URL_APPLY_GUESSFILE', 'LongWord( $00000004 );
6354: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008 );
6355: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL ) : Integer;
6356: Function UrlCombine(pszBase,pszRelative:PChar;pszCombin:PChar;out pcchCombin:DWORD;dwFlags:DWORD) : HRESULT;
6357: Function UrlCanonicalize(pszUrl:PChar;pszCanonicalized:PChar;pcchCanonic:DWORD;dwFlags:DWORD) : HRESULT;
6358: Function UrlIsOpaque( pszURL : PChar ) : BOOL;
6359: Function UrlIsNoHistory( pszURL : PChar ) : BOOL;
6360: Function UrlIsFileUrl( pszURL : PChar ) : BOOL;
6361: Function UrlIsUrl( pszUrl : PChar; UrlIs : TUrls ) : BOOL;
6362: Function UrlGetLocation( psz1 : PChar ) : PChar;
6363: Function UrlUnescape( pszUrl, pszUnescaped : PChar;pcchUnescaped:DWORD; dwFlags : DWORD ) : HRESULT;
6364: Function UrlEscape(pszUrl : PChar; pszEscaped : PChar; pcchEscaped:DWORD; dwFlags : DWORD ) : HRESULT;
6365: Function UrlCreateFromPath(pszPath:PChar; pszUrl : PChar;pcchUrl: DWORD; dwFlags : DWORD ) : HRESULT;
6366: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD ) : HRESULT;
6367: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD ) : HRESULT;
6368: Function UrlGetPart(pszIn : PChar; pszOut : PChar; pcchOut: DWORD; dwFlags, dwFlags : DWORD ) : HRESULT;
6369: Function UrlGetValueScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD ) : HRESULT;
6370: Function HashData( pData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD ) : HRESULT;
6371: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD ) : HRESULT;
6372: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD ) : HRESULT;
6373: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar ) : DWORD;
6374: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar ) : DWORD;
6375: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar ) : DWORD;
6376: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD ) : Longint;
6377: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName:PChar; var
pcchValueName:DWORD;pdwType:DWORD; pvData : _Pointer; pcbData : DWORD ) : Longint;
6378: Function SHQueryInfoKey(hKey:HKEY;pcSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6379: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD ) : DWORD;
6380: Function SHRegGetPath(hKey:HKEY; pcszSubKey,pcszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD;
6381: Function SHRegSetPath( hKey:HKEY; pcszSubKey, pcSzValue, pcSzPath : PChar; dwFlags : DWORD): DWORD;
6382: SHREGDEL_DEFAULT', 'LongWord( $00000000 );
6383: SHREGDEL_HKCU', 'LongWord( $00000001 );
6384: SHREGDEL_HKLM', 'LongWord( $00000010 );
6385: SHREGDEL_BOTH', 'LongWord( $00000011 );
6386: SHREGENUM_DEFAULT', 'LongWord( $00000000 );
6387: SHREGENUM_HKCU', 'LongWord( $00000001 );
6388: SHREGENUM_HKLM', 'LongWord( $00000010 );
6389: SHREGENUM_BOTH', 'LongWord( $00000011 );
6390: SHREGSET_HKCU', 'LongWord( $00000001 );
6391: SHREGSET_FORCE_HKCU', 'LongWord( $00000002 );
6392: SHREGSET_HKLM', 'LongWord( $00000004 );
6393: SHREGSET_FORCE_HKLM', 'LongWord( $00000008 );
6394: TSHRegDelFlags', 'DWORD;
6395: TSHRegEnumFlags', 'DWORD;
6396: HUSKEY', 'THandle;
6397: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001 );
6398: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002 );
6399: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002 );
6400: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004 );
6401: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008 );
6402: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010 );
6403: ASSOCF_NOTRUNCATE', 'LongWord( $00000020 );
6404: ASSOCF_VERIFY', 'LongWord( $00000040 );
6405: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080 );
6406: ASSOCF_NOFIXUPS', 'LongWord( $00000100 );
6407: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200 );
6408: ASSOCF', 'DWORD;
6409: ASSOCSTR_COMMAND', 'LongInt'( 1 );
6410: ASSOCSTR_EXECUTABLE', 'LongInt'( 2 );
6411: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3 );
6412: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4 );
6413: ASSOCSTR_NOOPEN', 'LongInt'( 5 );
6414: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6 );
6415: ASSOCSTR_DDECOMMAND', 'LongInt'( 7 );
6416: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8 );
6417: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9 );
6418: ASSOCSTR_DDETOPIC', 'LongInt'( 10 );
6419: ASSOCSTR_INFOTIP', 'LongInt'( 11 );
6420: ASSOCSTR_MAX', 'LongInt'( 12 );
6421: ASSOCSTR', 'DWORD;
6422: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1 );
6423: ASSOCKEY_APP', 'LongInt'( 2 );
6424: ASSOCKEY_CLASS', 'LongInt'( 3 );
6425: ASSOCKEY_BASECLASS', 'LongInt'( 4 );

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6426: ASSOCKEY_MAX', 'LongInt'( 5);
6427: ASSOCKEY', 'DWORD
6428: ASSOCDATA_MSIDEScriptor', 'LongInt'( 1);
6429: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2);
6430: ASSOCDATA_QUERYCLASSSTORE', 'LongInt'( 3);
6431: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4);
6432: ASSOCDATA_MAX', 'LongInt'( 5);
6433: ASSOCDATA', 'DWORD
6434: ASSOCENUM_NONE', 'LongInt'( 0);
6435: ASSOCENUM', 'DWORD
6436: SID_IQueryAssociations', 'String '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6437: SHACF_DEFAULT($00000000);
6438: SHACF_FILESYSTEM', 'LongWord( $00000001);
6439: SHACF_URLHISTORY', 'LongWord( $00000002);
6440: SHACF_URLMRU', 'LongWord( $00000004);
6441: SHACF_USETAB', 'LongWord( $00000008);
6442: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6443: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6444: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6445: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6446: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD( $80000000 ) );
6447: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6448: Procedure SHSetThreadRef( punk : IUnknown )
6449: Procedure SHGetThreadRef( out ppunk : IUnknown )
6450: CTF_INSIST', 'LongWord( $00000001);
6451: CTF_THREAD_REF', 'LongWord( $00000002);
6452: CTF_PROCESS_REF', 'LongWord( $00000004);
6453: CTF_COINIT', 'LongWord( $00000008);
6454: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6455: Procedure ColorRGBtoHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD)
6456: Function ColorHLSToRGB( whue, wluminance, wsaturation : WORD) : TColorRef
6457: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6458: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6459: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6460: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6461: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6462: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6463: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6464: Function SetRectEmpty( var lprc : TRect ) : BOOL
6465: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6466: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6467: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6468: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6469:
6470: Function InitializeFlatSB( hWnd : HWND ) : Bool
6471: Procedure UninitializeFlatSB( hWnd : HWND )
6472: Function FlatSB_SetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6473: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6474: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6475: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6476: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer
6477: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6478: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6479:
6480:
6481: // **** 204 unit uPST_ShellAPT;
6482: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6483: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6484: Procedure DragFinish( Drop : HDROP )
6485: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6486: Function ShellExecute( hWnd : HWND; Operation, FileName, Parameters, Directory : PChar; ShowCmd : Integer ) : HINST
6487: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6488: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6489: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6490: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6491: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT ) : HICON
6492: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6493: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6494: Function ExtractIconEx( lpszFile : PChar; nIconIndex : Int; var phiconLarge, phiconSmall : HICON; nIcons : UINT ) : UINT
6495: Procedure SHFreeNameMappings( hNameMappings : THandle )
6496:
6497: DLLVER_PLATFORM_WINDOWS', 'LongWord( $00000001);
6498: DLLVER_PLATFORM_NT', 'LongWord( $00000002);
6499: DLLVER_MAJOR_MASK', 'LongWord( Int64( $FFFF000000000000 ) );
6500: DLLVER_MINOR_MASK', 'LongWord( Int64( $0000FFF000000000 ) );
6501: DLLVER_BUILD_MASK', 'LongWord( Int64( $00000000FFF0000 ) );
6502: DLLVER_QFE_MASK', 'LongWord( Int64( $000000000000FFFF ) );
6503: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6504: Function SimpleXMLEncode( const S : string ) : string
6505: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean )
6506: Function XMLEncode( const S : string ) : string
6507: Function XMLDecode( const S : string ) : string
6508: Function EntityEncode( const S : string ) : string
6509: Function EntityDecode( const S : string ) : string
6510:
6511: procedure RIRegister_CPort_Routines(S: TPSEExec);
6512: Procedure EnumComPorts( Ports : TStrings )
6513: Procedure ListComPorts( Ports : TStrings )
6514: Procedure ComPorts( Ports : TStrings ) //Alias to Arduino

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6515: Function GetComPorts: TStringlist;
6516: Function StrToBaudRate( Str : string ) : TBaudRate
6517: Function StrToStopBits( Str : string ) : TStopBits
6518: Function StrToDataBits( Str : string ) : TDataBits
6519: Function StrToParity( Str : string ) : TParityBits
6520: Function StrToFlowControl( Str : string ) : TFlowControl
6521: Function BaudRateToStr( BaudRate : TBaudRate ) : string
6522: Function StopBitsToStr( StopBits : TStopBits ) : string
6523: Function DataBitsToStr( DataBits : TDataBits ) : string
6524: Function ParityToStr( Parity : TParityBits ) : string
6525: Function FlowControlToStr( FlowControl : TFlowControl ) : string
6526: Function ComErrorsToStr( Errors : TComErrors ) : String
6527:
6528: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
6529: Function DispatchMessage( const lpMsg : TMsg ) : Longint
6530: Function TranslateMessage( const lpMsg : TMsg ) : BOOL
6531: Function SetMessageQueue( cMessagesMax : Integer ) : BOOL
6532: Function PeekMessage( var lpMsg:TMsg; hWnd:HWND;wMsgFilterMin,wMsgFilterMax,wRemoveMsg:UINT ):BOOL
6533: Function GetMessagePos : DWORD
6534: Function GetMessageTime : Longint
6535: Function GetMessageExtraInfo : Longint
6536: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean ) : string
6537: Procedure JAddToRecentDocs( const Filename : string )
6538: Procedure ClearRecentDocs
6539: Function ExtractIconFromFile( FileName : string; Index : Integer ) : HICON
6540: Function CreateShellLink( const AppName, Desc : string; Dest : string ) : string
6541: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo )
6542: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo )
6543: Function RecycleFile( FileToRecycle : string ) : Boolean
6544: Function JCopyFile( FromFile, ToDir : string ) : Boolean
6545: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType ) : UINT
6546: Function ShellObjectTypeConstToEnum( ShellObjectType : UINT ) : TShellObjectType
6547: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6548: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6549: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6550: Function EnumServicesStatusExA( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6551: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6552: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6553: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR ) : BOOL
6554:
6555: ***** unit uPSI_JclPeImage;
6556:
6557: Function IsValidPeFile( const FileName : TFileName ) : Boolean
6558: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders ) : Boolean
6559: Function PeCreateNameHintTable( const FileName : TFileName ) : Boolean
6560: Function PeRebaseImage( const ImageName : TFileName; NewBase : DWORD;TimeStamp : DWORD; MaxNewSize : DWORD ) : TJclRebaseImageInfo
6561: Function PeVerifyChecksum( const FileName : TFileName ) : Boolean
6562: Function PeClearChecksum( const FileName : TFileName ) : Boolean
6563: Function PeUpdateChecksum( const FileName : TFileName ) : Boolean
6564: Function PeDoesExportFunction( const FileName : TFileName; const FuncName:string; Options:TJclSmartCompOptions ):Bool;
6565: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions ) : Boolean
6566: Function PeIsExportFunctionForwarded( const FileName : TFileName; const FunctionName : string; Options : TJclSmartCompOptions ) : Bool
6567: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions ) : Boolean
6568: Function PeDoesImportLibrary( const FileName : TFileName; const LibraryName : string; Recursive : Boolean );
6569: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean ) : Boolean
6570: Function PeImportedFunctions( const FileName : TFileName; const FunctionsList : TStrings; const LibraryName : string; IncludeLibNames : Boolean ) : Boolean
6571: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6572: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6573: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6574: Function PeResourceKindNames( const FileName : TFileName; ResourceType : TJclPeResourceKind; const NamesList : TStrings ) : Bool
6575: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings ) : Boolean
6576: Function PeBorDependedPackages( const FileName : TFileName; PackagesList : TStrings; FullPathName, Descript : Bool ) : Bool;
6577: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6578: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6579: Function PeCreateRequiredImportList( const FileName : TFileName; RequiredImportsList : TStrings ) : Boolean;
6580: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6581: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6582: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6583: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) : PImageSectionHeader

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6584: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6585: //Function PeMapImgResolvePackageThunk( Address : Pointer ) : Pointer
6586: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):Pointer;
6587:   SIRegister_TJclPeSectionStream(CL);
6588:   SIRegister_TJclPeMapImgHookItem(CL);
6589:   SIRegister_TJclPeMapImgHooks(CL);
6590: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer;var NtHeaders:TImageNtHeaders):Boolean
6591: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6592: Type TJclBorUmSymbolKind,'(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6593: TJclBorUmSymbolModifier,'( smQualified, smLinkProc )
6594: TJclBorUmSymbolModifiers,'set of TJclBorUmSymbolModifier
6595: TJclBorUmDescription,'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6596: TJclBorUmResult,'( urOk, urNotMangled, urMicrosoft, urError )
6597: TJclPeUmResult,'( umNotMangled, umBorland, umMicrosoft )
6598: Function PeBorUmUnmangleName( const Name : string; var Unmangled : string; var Description : TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6599: Function PeBorUnmangleName1(const Name:string;var Unmangled:string;var Description:TJclBorUmDescription):TJclBorUmResult;
6600: Function PeBorUnmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6601: Function PeBorUnmangleName3( const Name : string ) : string;
6602: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult;
6603: Function PeUnmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult;
6604:
6605:
6606: //***** SysTools uPSI_StSystem; *****
6607: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal;
6608: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString;
6609: Function DeleteVolumeLabel( Drive : Char ) : Cardinal;
6610: //Procedure EnumerateDirectories(const StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6611: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6612: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal;
6613: Function FileMatchesMask( const FileName, FileMode : AnsiString ) : Boolean;
6614: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec;
6615: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer;
6616: Function FlushOsBuffers( Handle : Integer ) : Boolean;
6617: Function GetCurrentUser : AnsiString;
6618: Function GetDiskClass( Drive : Char ) : DiskClass;
6619: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,SectorsPerCluster:Cardinal):Bool;
6620: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var DiskSize:Double):Bool;
6621: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var DiskSize:Comp):Boolean;
6622: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6623: Function getDiskSpace2(const path: String; index: integer): int64;
6624: Function GetFileCreateDate( const FileName : AnsiString ) : TDateTime;
6625: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime;
6626: Function GetfileLastModify( const FileName : AnsiString ) : TDateTime;
6627: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString;
6628: Function GetLongPath( const APath : AnsiString ) : AnsiString;
6629: Function GetMachineName : AnsiString;
6630: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal;
6631: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean ) : AnsiString;
6632: Function GetShortPath( const APath : AnsiString ) : AnsiString;
6633: Function GetSystemFolder( aForceSlash : Boolean ) : AnsiString;
6634: Function GetTempFolder( aForceSlash : boolean ) : AnsiString;
6635: Function StGetWindowsFolder( aForceSlash : boolean ) : AnsiString;
6636: Function GetWorkingFolder( aForceSlash : boolean ) : AnsiString;
6637: Function GlobalDateToLocal( const UTC : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec;
6638: Function StIsDirectory( const DirName : AnsiString ) : Boolean;
6639: Function IsDirectoryEmpty( const S : AnsiString ) : Integer;
6640: Function IsDriveReady( Drive : Char ) : Boolean;
6641: Function IsFile( const FileName : AnsiString ) : Boolean;
6642: Function IsFileArchive( const S : AnsiString ) : Integer;
6643: Function IsFileHidden( const S : AnsiString ) : Integer;
6644: Function IsFileReadOnly( const S : AnsiString ) : Integer;
6645: Function IsFileSystem( const S : AnsiString ) : Integer;
6646: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec;
6647: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char ) : Cardinal;
6648: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer ) : Boolean;
6649: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal;
6650: Procedure SplitPath( const APath : AnsiString; Parts : TStrings );
6651: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt;
6652: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec ) : Longint;
6653: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec;
6654: Function ValidDrive( Drive : Char ) : Boolean;
6655: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal;
6656:
6657: //*****unit uPSI_JclLANMan;*****
6658: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string; const PasswordNeverExpires : Boolean ) : Boolean;
6659: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string; const PasswordNeverExpires : Boolean ) : Boolean;
6660: Function DeleteAccount( const Servername, Username : string ) : Boolean;
6661: Function DeleteLocalAccount( Username : string ) : Boolean;

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6662: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6663: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6664: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6665: Function GetLocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6666: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6667: Function LocalGroupExists( const Group : string ) : Boolean
6668: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6669: Function AddAccountToLocalGroup( const AccountName, Groupname : string ) : Boolean
6670: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6671: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6672: Function IsLocalAccount( const AccountName : string ) : Boolean
6673: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6674: Function GetRandomString( NumChar : cardinal ) : string
6675:
6676: //*****unit uPSI_cUtils;*****
6677: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )'
6678: Function cIsWinNT: boolean
6679: Procedure cFilesFromWildcard(Directory,Mask: string;var Files:TStringList;Subdirs,ShowDirs,Multitasking:Boolean;
6680: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6681: Function cRunAndGetOutput(Cmd,WorkDir:string; ErrFunc:TErrFunc; LineOutputFunc:TLineOutputFunc;
CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean) : string
6682: Function cGetShortName( FileName : string ) : string
6683: Procedure cShowError( Msg : String )
6684: Function cCommaStrToStr( s : string; formatstr : string ) : string
6685: Function cIncludeQuoteIfSpaces( s : string ) : string
6686: Function cIncludeQuoteIfNeeded( s : string ) : string
6687: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6688: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6689: Function cBuildFilter( var value : string; const FLTStyle : TFILTERSET ) : boolean;
6690: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6691: Function cCodeInstoStr( s : string ) : string
6692: Function cStrtoCodeIns( s : string ) : string
6693: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6694: Function cAttrToStr( const Attr : TSynHighlighterAttributes ) : string
6695: Procedure cStrToPoint( var pt : TPoint; value : string )
6696: Function cPointtoStr( const pt : TPoint ) : string
6697: Function cListtoStr( const List : TStrings ) : string
6698: Function ListtoStr( const List : TStrings ) : string
6699: Procedure StrToList( s : string; const List : TStrings; const delimiter : char )
6700: Procedure cStrToList( s : string; const List : TStrings; const delimiter : char )
6701: Function cGetFileType( const FileName : string ) : TUnitType
6702: Function cGetExTyp( const FileName : string ) : TExUnitType
6703: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6704: Function cExpandFileto( const FileName : string; const BasePath : string ) : string
6705: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6706: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6707: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6708: Function cGenMakePath( FileName : String ) : String;
6709: Function cGenMakePath2( FileName : String ) : String
6710: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean ) : String;
6711: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6712: Function cCalcMod( Count : Integer ) : Integer
6713: Function cGetVersionString( FileName : string ) : string
6714: Function cCheckChangeDir( var Dir : string ) : boolean
6715: Function cGetAssociatedProgram(const Extension:string; var Filename,Description: string):boolean
6716: Function cIsNumeric( s : string ) : boolean
6717: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6718: Function AttrToStr( const Attr : TSynHighlighterAttributes ) : string
6719: Function GetfileTyp( const FileName : string ) : TUnitType
6720: Function Atoi(const aStr: string): integer
6721: Function Itoa(const aint: integer): string
6722: Function Atof(const aStr: string): double';
6723: Function Atol(const aStr: string): longint';
6724:
6725:
6726: procedure SIRegister_cHTTPUtils(CL: TPPascalCompiler);
6727: begin
6728:   FindClass('TOBJECT','EHTTP'
6729:   FindClass('TOBJECT','EHTTPParser
6730:   //AnsiCharSet', 'set of AnsiChar
6731:   AnsiStringArray', 'array of AnsiString
6732:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6733:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6734:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH'
6735:   +'TPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6736:   +'CustomMinVersion : Integer; end
6737:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6738:   +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6739:   +'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6740:   +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6741:   +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6742:   +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6743:   +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6744:   +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince'
6745:   +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6746:   +'nection, hntOrigin, hntKeepAlive )
6747:   THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6748:   THTTPCustomHeader', 'record FieldName : AnsiString;FieldValue : '

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6749: +' AnsiString; end
6750: //^THTTPCustomHeader', '^THTTPCustomHeader // will not work
6751: THTTPCContentLengthEnum', '( hcltNone, hcltByteCount )
6752: THTTPCContentLength', 'record Value : THTTPCContentLengthEnum; ByteCount:Int64; end
6753: //^THTTPCContentLength', '^THTTPCContentLength // will not work
6754: THTTPCContentTypeMajor', '( hctmCustom, hctmText, hctmImage )
6755: THTTPCContentTypeEnum', '( hctNone, hctCustomParts, hctCustomStri'
6756: +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6757: +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6758: +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScript, hctAppli'
6759: +'ationCustom, hctAudioCustom, hctVideoCustom )
6760: THTTPCContentType', 'record Value : THTTPCContentTypeEnum; CustomM'
6761: +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray;'
6762: +' CustomStr : AnsiString; end
6763: THTTPDDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )
6764: THTTPDDateField', 'record Value : THTTPDDateFieldEnum; DayOfWeek :'
6765: +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6766: +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6767: +'String; DateTime : TDateTime; Custom : AnsiString; end
6768: THTTPTTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )
6769: THTTPTTransferEncoding', 'record Value : THTTPTTransferEncodingEnum'
6770: +'m; Custom : AnsiString; end
6771: THTTPCConnectionFieldEnum', '( hcfcNone, hcfcCustom, hcfcClose, hcfcKeepAlive )
6772: THTTPCConnectionField', 'record Value : THTTPCConnectionFieldEnum;'
6773: +' Custom : AnsiString; end
6774: THTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )
6775: THTTPAgeField', 'record Value : THTTPAgeFieldEnum; Age : Int64; Custom:AnsiString; end
6776: THTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )
6777: THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6778: +' , hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )
6779: THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6780: +' , hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6781: +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )
6782: THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end
6783: THTTPCContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6784: +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )
6785: THTTPCContentEncoding', 'record Value:THTTPCContentEncodingEnum;Custom:AnsiString; end;
6786: THTTPCContentEncodingFieldEnum', '( hcefNone, hcefList )
6787: THTTPCContentEncodingField', 'record Value : THTTPCContentEncoding'
6788: +' FieldEnum: List : array of THTTPCContentEncoding; end
6789: THTTPRetryAfterFieldEnum', '( hrarfNone, hrarfCustom, harfDate, harfSeconds )'
6790: THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum;'
6791: +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6792: THTTPCContentRangeFieldEnum', '( hcrfNone, hcrfCustom, hcrfByteRange )
6793: THTTPCContentRangeField', 'record Value : THTTPCContentRangeFieldE'
6794: +'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6795: THTTPSSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )
6796: THTTPSSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6797: THTTPSSetCookieCustomFieldArray', 'array of THTTPSSetCookieCustomField
6798: THTTPSSetCookieField', 'record Value : THTTPSSetCookiefieldEnum; D'
6799: +'omain : AnsiString; Path : AnsiString; Expires : THTTPDateField; MaxAge : '
6800: +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPSSetCookie'
6801: +'CustomFieldArray; Custom : AnsiString; end
6802: //^THTTPSSetCookieField', '^THTTPSSetCookieField // will not work
6803: THTTPSSetCookieFieldArray', 'array of THTTPSSetCookieField
6804: THTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )
6805: THTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6806: //^THTTPCookieFieldEntry', '^THTTPCookieFieldEntry // will not work
6807: THTTPCookieFieldEntryArray', 'array of THTTPCookieFieldEntry
6808: THTTPCookieField', 'record Value : THTTPCookieFieldEnum; Entries'
6809: +' : THTTPCookieFieldEntryArray; Custom : AnsiString; end
6810: THTTPCCommonHeaders', 'record TransferEncoding : THTTPTTransferEnc'
6811: +'oding; ContentType : THTTPCContentType; ContentLength : THTTPCContentLength;'
6812: +' Connection : THTTPCConnectionField; ProxyConnection : THTTPCConnectionField'
6813: +' ; Date : THTTPDateField; ContentEncoding : THTTPCContentEncodingField; end
6814: THTTPCustomHeaders', 'array of THTTPCustomHeader
6815: //^THTTFFixedHeaders', 'array[THTTFFixedHeaderNameEnum] of AnsiString
6816: THTTFFixedHeaders', 'array[0..42] of AnsiString
6817: THTTPMethodeEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC'
6818: +'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )
6819: THTTPMethode', 'record Value : THTTPMethodeEnum; Custom : AnsiString; end
6820: THTTTPRequestStartLine', 'record Method: THTTPMethode;URI: AnsiString;Version:THTTTPVersion; end
6821: THTTTPRequestHeader', 'record CommonHeaders : THTTPCCommonHeaders;'
6822: +' FixedHeaders : THTTFFixedHeaders; CustomHeaders : THTTPCustomHeaders; Coo'
6823: +'kie : THTTPCookieField; IfModifiedSince:THTTPDateField; IfUnmodifiedSince:THTTPDateField;end
6824: //^THTTTPRequestHeader', '^THTTTPRequestHeader // will not work
6825: THTTTPRequest', 'record StartLine : THTTTPRequestStartLine; Header'
6826: +' : THTTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6827: THTTTPResponseStartLineMessage', '( hslmNone, hslmCustom, hslmOK)
6828: THTTTPResponseStartLine', 'record Version : THTTTPVersion; Code :'
6829: +' Integer; Msg : THTTTPResponseStartLineMessage; CustomMsg : AnsiString; end
6830: THTTTPResponseHeader', 'record CommonHeaders : THTTPCCommonHeaders'
6831: +' ; FixedHeaders : THTTFFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co'
6832: +'okies : THTTPSetCookieFieldArray; Expires : THTTPDateField; LastModified :'
6833: +' THTTPDateField; Age : THTTPAgeField; end
6834: //^THTTTPResponseHeader', '^THTTTPResponseHeader // will not work
6835: THTTTPResponse', 'record StartLine : THTTTPResponseStartLine; Head'
6836: +'er : THTTTPResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6837: Function HTTPMessageHasContent( const H : THTTPCCommonHeaders ) : Boolean

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6838: Procedure InitHTTPRequest( var A : THTTPRequest)
6839: Procedure InitHTTPResponse( var A : THTTPResponse)
6840: Procedure ClearHTTPVersion( var A : THTTPVersion)
6841: Procedure ClearHTTPContentLength( var A : THTTPContentLength)
6842: Procedure ClearHTTPContentType( var A : THTTPContentType)
6843: Procedure ClearHTTPDateField( var A : THTTPDateField)
6844: Procedure ClearHTTPTransferEncoding( var A : THTTPTransferEncoding)
6845: Procedure ClearHTTPConnectionField( var A : THTTPConnectionField)
6846: Procedure ClearHTTPPageField( var A : THTTPPageField)
6847: Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding)
6848: Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField)
6849: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField)
6850: Procedure ClearHTTPSetCookieField( var A : THTTPSetCookieField)
6851: Procedure ClearHTTPCommonHeaders( var A : THTTPCommonHeaders)
6852: //Procedure ClearHTTPFixedHeaders( var A : THTTPFixedHeaders)
6853: Procedure ClearHTTPCustomHeaders( var A : THTTPCustomHeaders)
6854: Procedure ClearHTTPCookieField( var A : THTTPCookieField)
6855: Procedure ClearHTTPMethod( var A : THTTPMethod)
6856: Procedure ClearHTTPRequestStartLine( var A : THTTPRequestStartLine)
6857: Procedure ClearHTTPRequestHeader( var A : THTTPRequestHeader)
6858: Procedure ClearHTTPRequest( var A : THTTPRequest)
6859: Procedure ClearHTTPResponseStartLine( var A : THTTPResponseStartLine)
6860: Procedure ClearHTTPResponseHeader( var A : THTTPResponseHeader)
6861: Procedure ClearHTTPResponse( var A : THTTPResponse)
6862: THTTPStringOption', '(hsNone')
6863: THTTPStringOptions', 'set of THTTPStringOption
6864: FindClass('TOBJECT'), 'TansiStringBuilder
6865:
6866: Procedure BuildStrHTTPVersion(const A:THTTPVersion;const B:TansiStringBuilder; P:THTTPStringOptions;
6867: Procedure BuildStrHTTPContentLengthValue(const
6868: A:THTTPContentLength;B:TansiStringBuilder;P:THTTPStringOptions)
6869: Procedure BuildStrHTTPContentLength(const A : THTTPContentLength;
6870: B:TansiStringBuilder;P:THTTPStringOptions)
6871: Procedure BuildStrHTTPContentTypeValue(const A:THTTPContentType;B:TansiStringBuilder;const
6872: P:THTTPStringOptions)
6873: Procedure BuildStrHTTPContentType(const A:THTTPContType;const B:TansiStringBuilder; const
6874: P:THTTPStringOptions)
6875: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
6876: B : TansiStringBuilder; const P : THTTPStringOptions)
6877: Procedure BuildStrHTTPDateFieldValue( const A : THTTPDateField; const B : TansiStringBuilder; const P :
6878: THTTPStringOptions)
6879: Procedure BuildStrHTTPDateField(const A : THTTPDateField;const B:TansiStringBuilder;const
6880: P:THTTPStringOptions);
6881: Procedure BuildStrHTTPTransferEncodingValue( const A : THTTPTransferEncoding; const B :
6882: TansiStringBuilder; const P : THTTPStringOptions)
6883: Procedure BuildStrHTTPTransferEncoding( const A : THTTPTransferEncoding; const B : TansiStringBuilder;
6884: const P : THTTPStringOptions)
6885: Procedure BuildStrHTTPContentRangeField( const A : THTTPContentRangeField; const B : TansiStringBuilder;
6886: const P : THTTPStringOptions)
6887: Procedure BuildStrHTTPConnectionFieldValue( const A : THTTPConnectionField; const B : TansiStringBuilder;
6888: const P : THTTPStringOptions)
6889: Procedure BuildStrHTTPConnectionField( const A : THTTPConnectionField; const B : TansiStringBuilder;
6890: const P : THTTPStringOptions)
6891: Procedure BuildStrHTTPPageField( const A : THTTPPageField;const B:TansiStringBuilder;const
6892: P:THTTPStringOptions)
6893: Procedure BuildStrHTTPProxyConnectionField( const A : THTTPProxyConnectionField; const B : TansiStringBuilder;
6894: const P : THTTPStringOptions)
6895: Procedure BuildStrHTTPCommonHeaders( const A : THTTPCommonHeaders; const B : TansiStringBuilder; const P
6896: : THTTPStringOptions);

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6897: Function HTTPContentTypeValueToStr( const A : THTTPContentType ) : AnsiString
6898: Function HTTPSetCookieFieldValueToStr( const A : THTTPSetCookieField ) : AnsiString
6899: Function HTTPCookieFieldValueToStr( const A : THTTPCookieField ) : AnsiString
6900: Function HTTPMethodToStr( const A : THTTPMethod ) : AnsiString
6901: Function HTTPRequestToStr( const A : THTTPRequest ) : AnsiString
6902: Function HTTPResponseToStr( const A : THTTPResponse ) : AnsiString
6903: Procedure PrepareCookie(var A:THTTPCookieField;const B:THTTPSetCookieFieldArray;const
  Domain:AnsiString;const Secure:Boolean;THTTPParserHeaderParseFunc', 'Function ( const HeaderName : THTT'
6904:   +PHeaderNameEnum; const HeaderPtr : __Pointer ) : Boolean
6905: SIRegister_THTTPParser(CL);
6906: FindClass('TOBJECT','THTTPContentDecoder'
6907: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder )
6908: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6909: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6910:   +' crcsContentCRLF, crcsTrailer, crcsFinished )
6911: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String )
6912: SIRegister_THTTPContentDecoder(CL);
6913: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6914: FindClass('TOBJECT','THTTPContentReader'
6915: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader )
6916: THTTPContentReaderLogEvent', 'Procedure(const Sender:THTTPContentReader;const LogMsg:String;const
  LogLevel:Int;
6917: SIRegister_THTTPContentReader(CL);
6918: THTTPContentWriterMechanism', '(hctmEvent, hctmString, hctmStream, hctmFile )
6919: FindClass('TOBJECT','THTTPContentWriter'
6920: THTTPContentWriterLogEvent', 'Procedure (const Sender : THTTPContentWriter;const LogMsg:AnsiString );
6921: SIRegister_THTTPContentWriter(CL);
6922: Procedure SelfTestcHTTPUtils
6923: end;
6924:
6925: (*-----*)
6926: procedure SIRegister_cTLSUtils(CL: TPSPascalCompiler);
6927: begin
6928:   'TLSLibraryVersion', 'String '1.00
6929:   'TLSerror_None', 'LongInt'( 0 );
6930:   'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6931:   'TLSerror_InvalidParameter', 'LongInt'( 2 );
6932:   'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6933:   'TLSerror_InvalidState', 'LongInt'( 4 );
6934:   'TLSerror_DecodeError', 'LongInt'( 5 );
6935:   'TLSerror_BadProtocol', 'LongInt'( 6 );
6936:   Function TLSErrorMessage( const TLSError : Integer ) : String
6937:     SIRegister_ETLSError(CL);
6938:     TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6939:     TTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6940:   Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion )
6941:   Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion )
6942:   Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion )
6943:   Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion )
6944:   Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6945:   Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6946:   Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6947:   Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean
6948:   Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6949:   Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean
6950:   Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6951:   Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6952:   Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6953:   Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6954:   Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6955:   Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion ) : String
6956:   Function TLSProtocolVersionName( const A : TTLSProtocolVersion ) : String
6957:   PTLSRandom', '^TLSRandom // will not work
6958:   Procedure InitTLSRandom( var Random : TLSRandom )
6959:   Function TLSRandomToStr( const Random : TLSRandom ) : AnsiString
6960:   'TLSSessionIDMaxLen', 'LongInt'( 32 );
6961:   Procedure InitTLSSessionID( var SessionID : TLSSessionID; const A : AnsiString )
6962:   Function EncodeTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TLSSessionID):Int;
6963:   Function DecodeTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TLSSessionID):Int;
6964:   TTLSignatureAndHashAlgorithm', 'record Hash : TTLSShashAlgorithm';
6965:   +' ; Signature : TTLSSignatureAlgorithm; end
6966: // TTLSignatureAndHashAlgorithm', '^TTLSignatureAndHashAlgorithm +'// will not work
6967: TTLSignatureAndHashAlgorithmArray', 'array of TTLSignatureAndHashAlgorithm
6968: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE '
6969:   +' DSS, tlskeaDHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6970: TTLSMACAlgorithm', '( tlsmANone, tlsmANULL, tlsmAHMAC_MD5, tlsmA'
6971:   +' HMAC_SHA1, tlsmAHMAC_SHA256, tlsmAHMAC_SHA384, tlsmAHMAC_SHA512 )
6972: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6973:   +'nteger; Supported : Boolean; end
6974: PTLSMacAlgorithmInfo', '^TTLSSmacAlgorithmInfo // will not work
6975: 'TLS_MAC_MAXDIGESTSIZE', 'LongInt'( 64 );
6976: TTLSPRFAlgorithm', '( tlspSHA256 )
6977: Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6978: Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6979: Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6980: Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6981: Function tls10PRF( const Secret, ALlabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6982: Function tls12PRF_SHA256( const Secret, ALlabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6983: Function tls12PRF_SHA512( const Secret, ALlabel, Seed : AnsiString; const Size : Integer ) : AnsiString

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6984: Function TLSPRF(const ProtoVersion:TTLSProtocolVersion;const Secret,ALabel,Seed:AString;const
6985:   Size:Int):AString;
6986: Function tls10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
6987:   Size:Integer):AnsiString;
6988: Function tls12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
6989:   Size:Int):AnsiString;
6990: Function TLSKeyBlock(const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
6991:   ClientRandom : AnsiString; const Size : Integer ) : AnsiString
6992: Function tlsl0MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6993: Function tlsl2SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6994: Function tlsl2SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
6995: Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
6996:   ServerRandom:AnsiString) : AnsiString
6997:   'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6998:     +ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6999:     +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
7000: Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
7001:   IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TLSKeys)
7002: Procedure GenerateFinalTLSKeys(const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
7003:   ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TLSKeys)
7004: 'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'(' 16384 - 1);
7005: 'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'(' 16384 + 1024);
7006: Procedure SelfTestcTLSUtils
7007: end;
7008: (*-----*)
7009: procedure SIRegister_Reversi(CL: TPSPascalCompiler);
7010: begin
7011:   sPosData','record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
7012:   integer; disks : integer; mx : integer; my : integer; end
7013: // pBoard', '^tBoard // will not work
7014: Function rCalculateData( cc : byte; cx, cy : integer) : sPosData
7015: Function rCheckMove( color : byte; cx, cy : integer) : integer
7016: //Function rDoStep( data : pBoard) : word
7017: Function winExecAndWait( const sAppPath : string; wVisible : word) : boolean
7018: end;
7019: 
7020: procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
7021: begin
7022:   Function InEditMode( ADataset : TDataset) : Boolean
7023:   Function CheckDataSource( ADataSource : TDataSource) : Boolean;
7024:   Function CheckDataSource1(ADataSource:TDataSource;const AFFieldName:string;var VField:TField):boolean;
7025:   Function GetFieldText( AField : TField) : String
7026: end;
7027: 
7028: procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
7029: begin
7030:   TPrintMode', '( pmPrint, pmPreview, pmPageCount )
7031:   TMyPrintRange', '( prAll, prSelected )
7032:   TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
7033:   +'ded, ssDateTime, ssTime, ssCustom )
7034:   TSortDirection', '( sdAscending, sdDescending )
7035:   TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
7036:   TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer'
7037:   +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
7038:   TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
7039:   TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
7040:   SIRegister_TSortOptions(CL);
7041:   SIRegister_TPrintOptions(CL);
7042:   TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
7043:   SIRegister_TSortedList(CL);
7044:   TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
7045:   TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
7046:   TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
7047:   TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
7048:   +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
7049:   SIRegister_TFontSetting(CL);
7050:   AddTypeS(TFormatDrawCellEvent)', 'Procedure ( Sender : TObject; Col, Row :'
7051:   +' integer;State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool);
7052:   TSetFilterEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
7053:   TSearchEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
7054:   TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
7055:   TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
7056:   TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
7057:   TEEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
7058:   TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer'
7059:   +'r; var SortStyle : TSortStyle)
7060:   TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow :'
7061:   +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
7062:   SIRegister_TSortGrid(CL);
7063:   Function ExtendedCompare( const Str1, Str2 : String) : Integer
7064:   Function NormalCompare( const Str1, Str2 : String) : Integer
7065:   Function DateTimeCompare( const Str1, Str2 : String) : Integer
7066:   Function NumericCompare( const Str1, Str2 : String) : Integer
7067:   Function TimeCompare( const Str1, Str2 : String) : Integer
7068:   //Function Compare( Item1, Item2 : Pointer) : Integer

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7064: end;
7065:
7066: ***** procedure Register_IB(CL: TPPascalCompiler);
7067: Procedure IBAlloc( var P, OldSize, NewSize : Integer)
7068: Procedure IBEError( ErrMess : TIBClientError; const Args : array of const)
7069: Procedure IBD DataBaseError
7070: Function StatusVector : PISC_STATUS
7071: Function StatusVectorArray : PStatusVector
7072: Function CheckStatusVector( ErrorCode : array of ISC_STATUS) : Boolean
7073: Function StatusVectorAsText : string
7074: Procedure SetIBDataBaseErrorMessages( Value : TIBDataBaseErrorMessages)
7075: Function GetIBDataBaseErrorMessages : TIBDataBaseErrorMessages
7076:
7077:
7078: //*****unit uPSI_BoldUtils;*****
7079: Function CharCount( c : char; const s : string) : integer
7080: Function BoldNamesEqual( const name1, name2 : string) : Boolean
7081: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
7082: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
7083: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string) : string
7084: Function BoldTrim( const S : string) : string
7085: Function BoldIsPrefix( const S, Prefix : string) : Boolean
7086: Function BoldStrEqual( P1, P2 : PChar; Len : integer) : Boolean
7087: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer) : Boolean
7088: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer) : Boolean
7089: Function BoldCaseIndependentPos( const Substr, S : string) : Integer
7090: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings)
7091: Function CapitalisedToSpaced( Capitalised : String) : String
7092: Function SpacedToCapitalised( Spaced : String) : String
7093: Function BooleanToString( BoolValue : Boolean) : String
7094: Function String.ToBoolean( StrValue : String) : Boolean
7095: Function GetUpperLimitForMultiplicity( const Multiplicity : String) : Integer
7096: Function GetLowerLimitForMultiplicity( const Multiplicity : String) : Integer
7097: Function StringListToVarArray( List : TStringList) : variant
7098: Function IsLocalMachine( const Machinename : WideString) : Boolean
7099: Function GetComputerNameStr : string
7100: Function TimeStampComp( const Time1, Time2 : TTimeStamp) : Integer
7101: Function BoldStrToDateFmt(const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7102: Function BoldDateToStrFmt(const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7103: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7104: Function BoldParseFormattedDate(const value:String;const formats:array of string; var Date:TDateTime):Boolean;
7105: Procedure EnsureTrailing( var Str : String; ch : char)
7106: Function BoldDirectoryExists( const Name : string) : Boolean
7107: Function BoldForceDirectories( Dir : string) : Boolean
7108: Function BoldRootRegistryKey : string
7109: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7110: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings) : Integer
7111: Function LogicalAnd( A, B : Integer) : Boolean
7112: record TByHandleFileInformation dwFileAttributes : DWORD;
7113:   +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime : TFileTime;
7114:   +': TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSizeLow : DWORD;
7115:   +'eLow : DWORD; nNumberOfLinks : DWORD; nFileIndexHigh : DWORD; nFileIndexLow : DWORD; end
7116: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7117: Function IsFirstInstance : Boolean
7118: Procedure ActivateFirst( AString : PChar)
7119: Procedure ActivateFirstCommandLine
7120: function MakeAckPkt(const BlockNumber: Word): string;
7121: procedure SendError(UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string);
7122: procedure SendError(UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7123: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7124: procedure SendError(UDPClient: TIdUDPClient; E: Exception); overload;
7125: function IdStrToWord(const Value: String): Word;
7126: function IdWordToStr(const Value: Word): WordStr;
7127: Function HasInstructionSet( const InstructionSet : TCPUIInstructionSet) : Boolean
7128: Function CPUFeatures : CPUFeatures
7129:
7130:
7131: procedure SIRegister_xrtl_util_CPUUtils(CL: TPPascalCompiler);
7132: begin
7133:   AddTypeS('TXRTLBitIndex', 'Integer'
7134:   Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex) : Cardinal
7135:   Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex) : Boolean
7136:   Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7137:   Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7138:   Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7139:   Function XRTLSwapHiLo16( X : Word) : Word
7140:   Function XRTLSwapHiLo32( X : Cardinal) : Cardinal
7141:   Function XRTLSwapHiLo64( X : Int64) : Int64
7142:   Function XRTLROL32( A, S : Cardinal) : Cardinal
7143:   Function XRTLROL16( A : Word; S : Cardinal) : Word
7144:   Function XRTLROL8( A : Byte; S : Cardinal) : Byte
7145:   Function XRTLROL16( A : Word; S : Cardinal) : Word
7146:   Function XRTLROL8( A : Byte; S : Cardinal) : Byte
7147:   Function XRTLROL16( A : Word; S : Cardinal) : Word
7148: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)
7149: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7150: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer)
7151: Function XRTLPopulation( A : Cardinal) : Cardinal

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7152: end;
7153:
7154: Function XRTLURLDecode( const ASrc : WideString ) : WideString
7155: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7156: Function XRTLURINormalize( const AURI : WideString ) : WideString
7157: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
    VPassword : WideString)
7158: Function XRTLExtractLongPathName(APath: string): string;
7159:
7160: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7161: begin
7162:   AddTypes('Int8', 'ShortInt'
7163:   AddTypes('Int16', 'SmallInt'
7164:   AddTypes('Int32', 'LongInt'
7165:   AddTypes('UInt8', 'Byte'
7166:   AddTypes('UInt16', 'Word'
7167:   AddTypes('UInt32', 'LongWord'
7168:   AddTypes('UInt64', 'Int64'
7169:   AddTypes('Word8', 'UInt8'
7170:   AddTypes('Word16', 'UInt16'
7171:   AddTypes('Word32', 'UInt32'
7172:   AddTypes('Word64', 'UInt64'
7173:   AddTypes('LargeInt', 'Int64'
7174:   AddTypes('NativeInt', 'Integer'
7175:   AddTypes('NativeUInt', 'Cardinal'
7176:   Const('BitsPerByte','LongInt'( 8 );
7177:   Const('BitsPerWord','LongInt'( 16 );
7178:   Const('BitsPerLongWord','LongInt'( 32 );
7179: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7180: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7181: Function MinI( const A, B : Integer ) : Integer
7182: Function MaxI( const A, B : Integer ) : Integer
7183: Function MinC( const A, B : Cardinal ) : Cardinal
7184: Function MaxC( const A, B : Cardinal ) : Cardinal
7185: Function SumClipI( const A, I : Integer ) : Integer
7186: Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7187: Function InByteRange( const A : Int64 ) : Boolean
7188: Function InWordRange( const A : Int64 ) : Boolean
7189: Function InLongWordRange( const A : Int64 ) : Boolean
7190: Function InShortIntRange( const A : Int64 ) : Boolean
7191: Function InSmallIntRange( const A : Int64 ) : Boolean
7192: Function InLongIntRange( const A : Int64 ) : Boolean
7193: AddTypes('Bool8', 'ByteBool'
7194: AddTypeS('Bool16', 'WordBool'
7195: AddTypes('Bool32', 'LongBool'
7196: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7197: AddTypeS('TCompareResultSet', 'set of TCompareResult
7198: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7199: Const('MinSingle','Single').setExtended( 1.5E-45 );
7200: Const('MaxSingle','Single').setExtended( 3.4E+38 );
7201: Const('MinDouble','Double').setExtended( 5.0E-324 );
7202: Const('MaxDouble','Double').setExtended( 1.7E+308 );
7203: Const('MinExtended','Extended').setExtended(3.4E-4932 );
7204: Const('MaxExtended','Extended').setExtended(1.1E+4932 );
7205: Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807 );
7206: Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807 );
7207: Function MinF( const A, B : Float ) : Float
7208: Function MaxF( const A, B : Float ) : Float
7209: Function ClipF( const Value : Float; const Low, High : Float ) : Float
7210: Function InSingleRange( const A : Float ) : Boolean
7211: Function InDoubleRange( const A : Float ) : Boolean
7212: Function InCurrencyRange( const A : Float ) : Boolean;
7213: Function InCurrencyRangel( const A : Int64 ) : Boolean;
7214: Function FloatExponentBase2( const A : Extended; var Exponent : Integer ) : Boolean
7215: Function FloatExponentBase10( const A : Extended; var Exponent : Integer ) : Boolean
7216: Function FloatIsInfinity( const A : Extended ) : Boolean
7217: Function FloatIsNaN( const A : Extended ) : Boolean
7218: Const('SingleCompareDelta','Extended').setExtended( 1.0E-34 );
7219: Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280 );
7220: Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400 );
7221: Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34 );
7222: Function FloatZero( const A : Float; const CompareDelta : Float ) : Boolean
7223: Function FloatOne( const A : Float; const CompareDelta : Float ) : Boolean
7224: Function FloatsEqual( const A, B : Float; const CompareDelta : Float ) : Boolean
7225: Function FloatsCompare( const A, B : Float; const CompareDelta : Float ) : TCompareResult
7226: Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5 );
7227: Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13 );
7228: Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17 );
7229: Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10 );
7230: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double ) : Boolean
7231: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double): TCompareResult
7232: Function cClearBit( const Value, BitIndex : LongWord ) : LongWord
7233: Function cSetBit( const Value, BitIndex : LongWord ) : LongWord
7234: Function cIsBitSet( const Value, BitIndex : LongWord ) : Boolean
7235: Function cToggleBit( const Value, BitIndex : LongWord ) : LongWord
7236: Function cIsHighBitSet( const Value : LongWord ) : Boolean
7237: Function SetBitScanForward( const Value : LongWord ) : Integer;
7238: Function SetBitScanForward1( const Value, BitIndex : LongWord ) : Integer;
7239: Function SetBitScanReverse( const Value : LongWord ) : Integer;

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7240: Function SetBitScanReverse1( const Value, BitIndex : LongWord ) : Integer;
7241: Function ClearBitScanForward( const Value : LongWord ) : Integer;
7242: Function ClearBitScanForward1( const Value : LongWord ) : Integer;
7243: Function ClearBitScanReverse( const Value : LongWord ) : Integer;
7244: Function ClearBitScanReverse1( const Value, BitIndex : LongWord ) : Integer;
7245: Function cReverseBits( const Value : LongWord ) : LongWord;
7246: Function cReverseBits1( const Value : LongWord; const BitCount : Integer ) : LongWord;
7247: Function cSwapEndian( const Value : LongWord ) : LongWord;
7248: Function cTwosComplement( const Value : LongWord ) : LongWord;
7249: Function RotateLeftBits16( const Value : Word; const Bits : Byte ) : Word;
7250: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte ) : LongWord;
7251: Function RotateRightBits16( const Value : Word; const Bits : Byte ) : Word;
7252: Function RotateRightBits32( const Value : LongWord; const Bits : Byte ) : LongWord;
7253: Function cBitCount( const Value : LongWord ) : LongWord;
7254: Function cIsPowerOfTwo( const Value : LongWord ) : Boolean;
7255: Function LowBitMask( const HighBitIndex : LongWord ) : LongWord;
7256: Function HighBitMask( const LowBitIndex : LongWord ) : LongWord;
7257: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord ) : LongWord;
7258: Function SetBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord ) : LongWord;
7259: Function ClearBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord ) : LongWord;
7260: Function ToggleBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord ) : LongWord;
7261: Function IsBitRangeSet( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord ) : Boolean;
7262: Function IsBitRangeClear( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord ) : Boolean;
7263: // AddTypeS('CharSet', 'set of AnsiChar'
7264: AddTypeS('CharSet', 'set of Char' //!!!
7265: AddTypeS('AnsiCharSet', 'TCharSet';
7266: AddTypeS('ByteSet', 'set of Byte';
7267: AddTypeS('AnsiChar', 'Char';
7268: // Function AsCharSet( const C : array of AnsiChar ) : CharSet;
7269: Function AsByteSet( const C : array of Byte ) : ByteSet;
7270: Procedure ComplementChar( var C : CharSet; const Ch : Char );
7271: Procedure ClearCharSet( var C : CharSet );
7272: Procedure FillCharSet( var C : CharSet );
7273: procedure FillCharSearchRec; // with 0
7274: Procedure ComplementCharSet( var C : CharSet );
7275: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet );
7276: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet );
7277: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet );
7278: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet );
7279: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet );
7280: Function IsSubSet( const A, B : CharSet ) : Boolean;
7281: Function IsEqual( const A, B : CharSet ) : Boolean;
7282: Function IsEmpty( const C : CharSet ) : Boolean;
7283: Function IsComplete( const C : CharSet ) : Boolean;
7284: Function cCharCount( const C : CharSet ) : Integer;
7285: Procedure ConvertCaseInsensitive( var C : CharSet );
7286: Function CaseInsensitiveCharSet( const C : CharSet ) : CharSet;
7287: Function IntRangeLength( const Low, High : Integer ) : Int64;
7288: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer ) : Boolean;
7289: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer ) : Boolean;
7290: Function IntRangeHasElement( const Low, High, Element : Integer ) : Boolean;
7291: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer ) : Boolean;
7292: Function IntRangeIncludeElementRange( var Low, High : Integer; const LowElement, HighElement : Integer ) : Boolean;
7293: Function CardRangeLength( const Low, High : Cardinal ) : Int64;
7294: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal ) : Boolean;
7295: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal ) : Boolean;
7296: Function CardRangeHasElement( const Low, High, Element : Cardinal ) : Boolean;
7297: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal ) : Boolean;
7298: Function CardRangeIncludeElementRange( var Low, High : Cardinal; const LowElement, HighElement : Cardinal ) : Boolean;
7299: AddTypeS('UnicodeChar', 'WideChar';
7300: Function Compare( const I1, I2 : Boolean ) : TCompareResult;
7301: Function CompareI( const I1, I2 : Integer ) : TCompareResult;
7302: Function Compare2( const I1, I2 : Int64 ) : TCompareResult;
7303: Function Compare3( const I1, I2 : Extended ) : TCompareResult;
7304: Function CompareA( const I1, I2 : AnsiString ) : TCompareResult;
7305: Function CompareW( const I1, I2 : WideString ) : TCompareResult;
7306: Function cSgn( const A : LongInt ) : Integer;
7307: Function cSgn1( const A : Int64 ) : Integer;
7308: Function cSgn2( const A : Extended ) : Integer;
7309: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )');
7310: Function AnsiCharToInt( const A : AnsiChar ) : Integer;
7311: Function WideCharToInt( const A : WideChar ) : Integer;
7312: Function CharToInt( const A : Char ) : Integer;
7313: Function IntToAnsiChar( const A : Integer ) : AnsiChar;
7314: Function IntToWideChar( const A : Integer ) : WideChar;
7315: Function IntToChar( const A : Integer ) : Char;
7316: Function IsHexAnsiChar( const Ch : AnsiChar ) : Boolean;
7317: Function IsHexWideChar( const Ch : WideChar ) : Boolean;
7318: Function IsHexChar( const Ch : Char ) : Boolean;
7319: Function HexAnsiCharToInt( const A : AnsiChar ) : Integer;
7320: Function HexWideCharToInt( const A : WideChar ) : Integer;
7321: Function HexCharToInt( const A : Char ) : Integer;
7322: Function IntToUpperHexAnsiChar( const A : Integer ) : AnsiChar;
7323: Function IntToUpperHexWideChar( const A : Integer ) : WideChar;
7324: Function IntToUpperHexChar( const A : Integer ) : Char;
7325: Function IntToLowerHexAnsiChar( const A : Integer ) : AnsiChar;
7326: Function IntToLowerHexWideChar( const A : Integer ) : WideChar;
7327: Function IntToLowerHexChar( const A : Integer ) : Char;
7328: Function IntToStringA( const A : Int64 ) : AnsiString;

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7329: Function IntToStringW( const A : Int64) : WideString
7330: Function IntToString( const A : Int64) : String
7331: Function UIntToStringA( const A : NativeUInt) : AnsiString
7332: Function UIntToStringW( const A : NativeUInt) : WideString
7333: Function UIntToString( const A : NativeUInt) : String
7334: Function LongWordToStrA( const A : LongWord; const Digits : Integer) : AnsiString
7335: Function LongWordToStrW( const A : LongWord; const Digits : Integer) : WideString
7336: Function LongWordToStrU( const A : LongWord; const Digits : Integer) : UnicodeString
7337: Function LongWordToStr( const A : LongWord; const Digits : Integer) : String
7338: Function LongWordToHexA( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):AnsiString;
7339: Function LongWordToHexW( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):WideString;
7340: Function LongWordToHex( const A : LongWord; const Digits : Integer;const UpperCase:Boolean):String
7341: Function LongWordToOctA( const A : LongWord; const Digits : Integer) : AnsiString
7342: Function LongWordToOctW( const A : LongWord; const Digits : Integer) : WideString
7343: Function LongWordToOct( const A : LongWord; const Digits : Integer) : String
7344: Function LongWordToBinA( const A : LongWord; const Digits : Integer) : AnsiString
7345: Function LongWordToBinW( const A : LongWord; const Digits : Integer) : WideString
7346: Function LongWordToBin( const A : LongWord; const Digits : Integer) : String
7347: Function TryStringToInt64A( const S : AnsiString; out A : Int64) : Boolean
7348: Function TryStringToInt64W( const S : WideString; out A : Int64) : Boolean
7349: Function TryStringToInt64( const S : String; out A : Int64) : Boolean
7350: Function StringToInt64DefA( const S : AnsiString; const Default : Int64) : Int64
7351: Function StringToInt64DefW( const S : WideString; const Default : Int64) : Int64
7352: Function StringToInt64Def( const S : String; const Default : Int64) : Int64
7353: Function StringToInt64A( const S : AnsiString) : Int64
7354: Function StringToInt64W( const S : WideString) : Int64
7355: Function StringToInt64( const S : string) : Int64
7356: Function TryStringToIntA( const S : AnsiString; out A : Integer) : Boolean
7357: Function TryStringToIntW( const S : WideString; out A : Integer) : Boolean
7358: Function TryStringToInt( const S : String; out A : Integer) : Boolean
7359: Function StringToIntDefA( const S : AnsiString; const Default : Integer) : Integer
7360: Function StringToIntDefW( const S : WideString; const Default : Integer) : Integer
7361: Function StringToIntDef( const S : String; const Default : Integer) : Integer
7362: Function StringToIntA( const S : AnsiString) : Integer
7363: Function StringToIntW( const S : WideString) : Integer
7364: Function StringToInt( const S : String) : Integer
7365: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7366: Function TryStringToLongWordW( const S : WideString; out A : LongWord) : Boolean
7367: Function TryStringToLongWord( const S : String; out A : LongWord) : Boolean
7368: Function StringToLongWordA( const S : AnsiString) : LongWord
7369: Function StringToLongWordW( const S : WideString) : LongWord
7370: Function StringToLongWord( const S : String) : LongWord
7371: Function HexToUIntA( const S : AnsiString) : NativeUInt
7372: Function HexToUIntW( const S : WideString) : NativeUInt
7373: Function HexToUInt( const S : String) : NativeUInt
7374: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7375: Function TryHexToLongWordW( const S : WideString; out A : LongWord) : Boolean
7376: Function TryHexToLongWord( const S : String; out A : LongWord) : Boolean
7377: Function HexToLongWordA( const S : AnsiString) : LongWord
7378: Function HexToLongWordW( const S : WideString) : LongWord
7379: Function HexToLongWord( const S : String) : LongWord
7380: Function TryOctoToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7381: Function TryOctoToLongWordW( const S : WideString; out A : LongWord) : Boolean
7382: Function TryOctoToLongWord( const S : String; out A : LongWord) : Boolean
7383: Function OctoToLongWordA( const S : AnsiString) : LongWord
7384: Function OctoToLongWordW( const S : WideString) : LongWord
7385: Function OctoToLongWord( const S : String) : LongWord
7386: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7387: Function TryBinToLongWordW( const S : WideString; out A : LongWord) : Boolean
7388: Function TryBinToLongWord( const S : String; out A : LongWord) : Boolean
7389: Function BinToLongWordA( const S : AnsiString) : LongWord
7390: Function BinToLongWordW( const S : WideString) : LongWord
7391: Function BinToLongWord( const S : String) : LongWord
7392: Function FloatToStringA( const A : Extended) : AnsiString
7393: Function FloatToStringW( const A : Extended) : WideString
7394: Function FloatToString( const A : Extended) : String
7395: Function TryStringToFloatA( const A : AnsiString; out B : Extended) : Boolean
7396: Function TryStringToFloatW( const A : WideString; out B : Extended) : Boolean
7397: Function TryStringToFloat( const A : String; out B : Extended) : Boolean
7398: Function StringToFloatA( const A : AnsiString) : Extended
7399: Function StringToFloatW( const A : WideString) : Extended
7400: Function StringToFloat( const A : String) : Extended
7401: Function StringToFloatDefA( const A : AnsiString; const Default : Extended) : Extended
7402: Function StringToFloatDefW( const A : WideString; const Default : Extended) : Extended
7403: Function StringToFloatDef( const A : String; const Default : Extended) : Extended
7404: Function EncodeBase64( const S,Alphabet:AnsiString; const Pad:Boolean;const PadMultiple:Integer;const PadChar: AnsiChar ) : AnsiString
7405: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7406: unit uPSI_cFundamentUtils;
7407: Const ('b64_MIMEBase64','Str').String('ABCDEFHIGHJKLNMOPQRSTUVWXYZabcdeffghijklmnopqrstuvwxyz0123456789+/-_');
7408: Const ('b64_UUEncode','String').String('!"#$%&'()*+,.-./0123456789:;<=>?@ABCDEFGHIJKLMOPQRSTUVWXYZ[\]^_');
7409: Const ('b64_XXEncode','String').String('+0123456789ABCDEFGHIJKLMOPQRSTUVWXYZabcdeffghijklmnopqrstuvwxyz');
7410: Const ('CCHARSET','Stringb64_XXEncode');
7411: Const ('CHEXSET','String'0123456789ABCDEF
7412: Const ('HEXDIGITS','String'0123456789ABCDEF
7413: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7414: Const ('DIGISET','String'0123456789ABCDEF';
7415: Const ('LETTERSET','String'ABCDEFHIGHJKLNMOPQRSTUVWXYZ'
7416: Const ('DIGISET2','TCharset').SetSet('0123456789')

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7417: Const ('LETTERSET2','TCharset').SetSet('ABCDEFIGHJKLMNPQRSTUVWXYZ'
7418: Const ('HEXSET2','TCharset').SetSET('0123456789ABCDEF')
7419: Const ('NUMBERSET','TCharset').SetSet('0123456789')
7420: Const ('NUMBERS','String'+'0123456789')
7421: Const ('LETTERS','String'+'ABCDEFGHIJKLMNOPQRSTUVWXYZ')
7422: Function CharSetToStr( const C : CharSet ) : AnsiString
7423: Function StrToCharSet( const S : AnsiString ) : CharSet
7424: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7425: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7426: Function UUDecode( const S : AnsiString ) : AnsiString
7427: Function XXDecode( const S : AnsiString ) : AnsiString
7428: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7429: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7430: Function InterfaceToStrW( const I : IInterface ) : WideString
7431: Function InterfaceToStr( const I : IInterface ) : String
7432: Function ObjectClassName( const O : TObject ) : String
7433: Function ClassClassName( const C : TClass ) : String
7434: Function ObjectToStr( const O : TObject ) : String
7435: Function ObjectToString( const O : TObject ) : String
7436: Function CharSetToStr( const C : CharSet ) : AnsiString
7437: Function StrToCharSet( const S : AnsiString ) : CharSet
7438: Function HashStrA(const S : AnsiString; const Index : Integer; const Count: Integer; const
    AsciiCaseSensitive : Boolean; const Slots : LongWord) : LongWord
7439: Function HashStrW(const S:WideString;const Index:Integer;const Count:Integer;const
    AsciiCaseSensitive:Boolean; const Slots:LongWord) : LongWord
7440: Function HashStr(const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive
    : Boolean; const Slots : LongWord) : LongWord
7441: Function HashInteger( const I : Integer; const Slots : LongWord) : LongWord
7442: Function HashLongWord( const I : LongWord; const Slots : LongWord) : LongWord
7443: Const ('Bytes1KB','LongInt'(' 1024'));
7444: SIRegister_IInterface(CL);
7445: Procedure SelfTestCFundamentUtils
7446:
7447: Function CreateSchedule : IJclSchedule
7448: Function NullStamp : TTimeStamp
7449: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7450: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7451: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7452:
7453: procedure SIRegister_uwinplot(CL: TPSPPascalCompiler);
7454: begin
7455:   AddTypeS('TFunc', 'function(X : Float) : Float';
7456:   Function InitGraphics( Width, Height : Integer ) : Boolean
7457:   Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean )
7458:   Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
7459:   Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )
7460:   Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float )
7461:   Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float )
7462:   Procedure SetGraphTitle( Title : String )
7463:   Procedure SetOxTitle( Title : String )
7464:   Procedure SetOyTitle( Title : String )
7465:   Function GetGraphTitle : string
7466:   Function GetOxTitle : String
7467:   Function GetOyTitle : String
7468:   Procedure PlotOxAxis( Canvas : TCanvas )
7469:   Procedure PlotOyAxis( Canvas : TCanvas )
7470:   Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid )
7471:   Procedure WriteGraphTitle( Canvas : TCanvas )
7472:   Function SetMaxCurv( NCurv : Byte ) : Boolean
7473:   Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor )
7474:   Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor )
7475:   Procedure SetCurvLegend( CurvIndex : Integer; Legend : String )
7476:   Procedure SetCurvStep( CurvIndex, Step : Integer )
7477:   Function GetMaxCurv : Byte
7478:   Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor )
7479:   Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7480:   Function GetCurvLegend( CurvIndex : Integer ) : String
7481:   Function GetCurvStep( CurvIndex : Integer ) : Integer
7482:   Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer )
7483:   Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer )
7484:   Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7485:   Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7486:   Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean )
7487:   Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix )
7488:   Function Xpixel( X : Float ) : Integer
7489:   Function Ypixel( Y : Float ) : Integer
7490:   Function Xuser( X : Integer ) : Float
7491:   Function Yuser( Y : Integer ) : Float
7492: end;
7493:
7494: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector )
7495: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector )
7496: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector )
7497: Procedure FFT_Integer_Cleanup
7498: Procedure CalcFrequency(NumSamples, FrequencyIndex: Integer; InArray: TCompVector; var FT : Complex)
7499: //unit uPSI_JclStreams;
7500: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin ) : Int64
7501: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer ) : Int64
7502: Function CompareStreams( A, B : TStream; BufferSize : Integer ) : Boolean

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7503: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer ) : Boolean
7504:
7505: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7506: begin
7507:   FindClass('TOBJECT','EInvalidDest'
7508:   FindClass('TOBJECT','EFCantMove'
7509:   Procedure fmxCopyFile( const FileName, DestName : string)
7510:   Procedure fmxMovefile( const FileName, DestName : string)
7511:   Function fmxGetFileSize( const FileName : string) : LongInt
7512:   Function fmxFileDateTime( const FileName : string) : TDateTime
7513:   Function fmxHasAttr( const FileName : string; Attr : Word) : Boolean
7514:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7515: end;
7516:
7517: procedure SIRegister_FindFileIter(CL: TPSPascalCompiler);
7518: begin
7519:   SIRegister_IFindFileIterator(CL);
7520:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7521: end;
7522:
7523: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7524: begin
7525:   Function SkipWhite( cp : PChar ) : PChar
7526:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string ) : PChar
7527:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string ) : PChar
7528:   Function ReadIdent( cp : PChar; var ident : string ) : PChar
7529: end;
7530:
7531: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7532: begin
7533:   SIRegister_TStringHashMapTraits(CL);
7534:   Function CaseSensitiveTraits : TStringHashMapTraits
7535:   Function CaseInsensitiveTraits : TStringHashMapTraits
7536:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod'
7537:   +'e; Right : PHashNode; end
7538: //PHashArray', '^THashArray // will not work
7539: SIRegister_TStringHashMap(CL);
7540: THashValue', 'Cardinal
7541: Function StrHash( const s : string ) : THashValue
7542: Function TextHash( const s : string ) : THashValue
7543: Function DataHash( var AValue, ASize : Cardinal ) : THashValue
7544: Function Iterate_FreeObjects( AUUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7545: Function Iterate_Dispose( AUUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7546: Function Iterate_FreeMem( AUUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7547: SIRegister_TCaseSensitiveTraits(CL);
7548: SIRegister_TCaseInsensitiveTraits(CL);
7549:
7550:
7551: //*****unit uPSI_umath;
7552: Function uExpo( X : Float ) : Float
7553: Function uExp2( X : Float ) : Float
7554: Function uExp10( X : Float ) : Float
7555: Function uLog( X : Float ) : Float
7556: Function uLog2( X : Float ) : Float
7557: Function uLog10( X : Float ) : Float
7558: Function uLogA( X, A : Float ) : Float
7559: Function uIntPower( X : Float; N : Integer): Float
7560: Function uPower( X, Y : Float ) : Float
7561: Function SgnGamma( X : Float ) : Integer
7562: Function Stirling( X : Float ) : Float
7563: Function StirLog( X : Float ) : Float
7564: Function Gamma( X : Float ) : Float
7565: Function LnGamma( X : Float ) : Float
7566: Function DiGamma( X : Float ) : Float
7567: Function TriGamma( X : Float ) : Float
7568: Function IGamma( X : Float ) : Float
7569: Function JGamma( X : Float ) : Float
7570: Function InvGamma( X : Float ) : Float
7571: Function Erf( X : Float ) : Float
7572: Function Erfc( X : Float ) : Float
7573: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7574: { Correlation coefficient between samples X and Y }
7575: function DBeta(A, B, X : Float) : Float;
7576: { Density of Beta distribution with parameters A and B }
7577: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7578: Function Beta(X, Y : Float) : Float
7579: Function Binomial( N, K : Integer) : Float
7580: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7581: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7582: Procedure LU_Decompo( A : TMatrix; Lb, Ub : Integer)
7583: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7584: Function DNorm( X : Float ) : Float
7585:
7586: function DGamma(A, B, X : Float) : Float;
7587: { Density of Gamma distribution with parameters A and B }
7588: function DKhi2(Nu : Integer; X : Float) : Float;
7589: { Density of Khi-2 distribution with Nu d.o.f. }
7590: function DStudent(Nu : Integer; X : Float) : Float;
7591: { Density of Student distribution with Nu d.o.f. }

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7592: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float;
7593: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
7594: function IBeta(A, B, X : Float) : Float;
7595: { Incomplete Beta function}
7596: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7597:
7598: procedure SIRegister_unlfit(CL: TPSPascalCompiler);
7599: begin
7600:   Procedure SetOptAlgo( Algo : TOptAlgo)
7601:   procedure SetOptAlgo(Algo : TOptAlgo);
7602: { -----
7603:   Sets the optimization algorithm according to Algo, which must be
7604:   NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ   }
7605:
7606:   Function GetOptAlgo : TOptAlgo
7607:   Procedure SetMaxParam( N : Byte)
7608:   Function GetMaxParam : Byte
7609:   Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7610:   Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7611:   Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7612:   Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y : TVector; Lb, Ub : Integer; MaxIter :
    Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7613:   Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y, S : TVector; Lb, Ub:Integer;
    MaxIter:Integer;Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7614:   Procedure SetMCFile( FileName : String)
7615:   Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7616:   Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
    LastPar:Integer;V:TMatrix);
7617: end;
7618:
7619: (*-----*)
7620: procedure SIRegister_usimplex(CL: TPSPascalCompiler);
7621: begin
7622:   Procedure SaveSimplex( FileName : string)
7623:   Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7624: end;
7625: (*-----*)
7626: procedure SIRegister_uregtest(CL: TPSPascalCompiler);
7627: begin
7628:   Procedure RegTest(Y, Ycalc: TVector; LbY, UbY: Integer; V: TMatrix; LbV, UbV: Integer; var Test:TRegTest)
7629:   Procedure WRegTest(Y, Ycalc, S: TVector; LbY, UbY: Integer; V: TMatrix; LbV, UbV: Integer; var Test:TRegTest);
7630: end;
7631:
7632: procedure SIRegister_ustrings(CL: TPSPascalCompiler);
7633: begin
7634:   Function LTrim( S : String) : String
7635:   Function RTrim( S : String) : String
7636:   Function uTrim( S : String) : String
7637:   Function StrChar( N : Byte; C : Char) : String
7638:   Function RFill( S : String; L : Byte) : String
7639:   Function LFill( S : String; L : Byte) : String
7640:   Function CFill( S : String; L : Byte) : String
7641:   Function Replace( S : String; C1, C2 : Char) : String
7642:   Function Extract( S : String; var Index : Byte; Delim : Char) : String
7643:   Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7644:   Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7645:   Function FloatStr( X : Float) : String
7646:   Function IntStr( N : LongInt) : String
7647:   Function uCompStr( Z : Complex) : String
7648: end;
7649:
7650: procedure SIRegister_uhyper(CL: TPSPascalCompiler);
7651: begin
7652:   Function uSinh( X : Float) : Float
7653:   Function uCosh( X : Float) : Float
7654:   Function uTanh( X : Float) : Float
7655:   Function uArcSinh( X : Float) : Float
7656:   Function uArcCosh( X : Float) : Float
7657:   Function ArcTanh( X : Float) : Float
7658:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7659: end;
7660:
7661: procedure SIRegister_urandom(CL: TPSPascalCompiler);
7662: begin
7663:   type RNG_Type =
7664:     (RNG_MWC,      { Multiply-With-Carry }
7665:      RNG_MT,       { Mersenne Twister }
7666:      RNG_UVAG);   { Universal Virtual Array Generator }
7667:   Procedure SetRNG( RNG : RNG_Type)
7668:   Procedure InitGen( Seed : RNG_IntType)
7669:   Procedure SRand( Seed : RNG_IntType)
7670:   Function IRanGen : RNG_IntType
7671:   Function IRanGen31 : RNG_IntType
7672:   Function RanGen1 : Float
7673:   Function RanGen2 : Float
7674:   Function RanGen3 : Float
7675:   Function RanGen53 : Float
7676: end;
7677:
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7678: // Optimization by Simulated Annealing
7679: procedure SIRegister_usimann(CL: TPSCompiler);
7680: begin
7681:   Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7682:   Procedure SA_CreateLogFile( FileName : String)
7683:   Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7684: end;
7685:
7686: procedure SIRegister_urantuvg(CL: TPSCompiler);
7687: begin
7688:   Procedure InitUVAGbyString( KeyPhrase : string)
7689:   Procedure InitUVAG( Seed : RNG_IntType)
7690:   Function IRanUVAG : RNG_IntType
7691: end;
7692:
7693: procedure SIRegister_ugenalg(CL: TPSCompiler);
7694: begin
7695:   Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7696:   Procedure GA_CreateLogFile( LogFileName : String)
7697:   Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7698: end;
7699:
7700: TVector', 'array of Float
7701: procedure SIRegister_uqsort(CL: TPSCompiler);
7702: begin
7703:   Procedure QSort( X : TVector; Lb, Ub : Integer)
7704:   Procedure DQSort( X : TVector; Lb, Ub : Integer)
7705: end;
7706:
7707: procedure SIRegister_uinterv(CL: TPSCompiler);
7708: begin
7709:   Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7710:   Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7711: end;
7712:
7713: procedure SIRegister_D2XXUnit(CL: TPSCompiler);
7714: begin
7715:   FT_Result', 'Integer
7716:   //TDWordptr', '^DWord // will not work
7717:   TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWord
7718:     d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PChar'
7719:     r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'
7720:     ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7721:     yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7722:     te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7723:     ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7724:     erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7725:     Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By'
7726:     te; IFAIsFastSer : Byte; AlsVCP : Byte; IFBIsFifo : Byte; IFBIsFifoTar : B'
7727:     yte; IFBIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '
7728:     Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; I'
7729:     nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv'
7730:     ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 : '
7731:     ; Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIIsVCP : B'
7732:     yte; end
7733: end;
7734:
7735:
7736: //***** PaintFX*****
7737: procedure SIRegister_TJvPaintFX(CL: TPSCompiler);
7738: begin
7739:   //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7740:   with AddClassN(FindClass('TComponent'), 'TJvPaintFX') do begin
7741:     Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7742:     Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7743:     Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7744:     Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7745:     Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7746:     Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7747:     Procedure Turn( Src, Dst : TBitmap)
7748:     Procedure TurnRight( Src, Dst : TBitmap)
7749:     Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7750:     Procedure TexturizeTile( const Dst : TBitmap; Amount : Integer)
7751:     Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7752:     Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7753:     Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7754:     Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7755:     Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7756:     Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7757:     Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7758:     Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7759:     Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7760:     Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7761:     Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7762:     Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7763:     Procedure Emboss( var Bmp : TBitmap)
7764:     Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7765:     Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7766:     Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)

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7767: Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7768: Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7769: Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7770: Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7771: Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7772: Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7773: Procedure QuartoOpaque( Src, Dst : TBitmap)
7774: Procedure SemiOpaque( Src, Dst : TBitmap)
7775: Procedure ShadowDownLeft( const Dst : TBitmap)
7776: Procedure ShadowDownRight( const Dst : TBitmap)
7777: Procedure ShadowUpLeft( const Dst : TBitmap)
7778: Procedure ShadowUpRight( const Dst : TBitmap)
7779: Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7780: Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7781: Procedure FlipRight( const Dst : TBitmap)
7782: Procedure FlipDown( const Dst : TBitmap)
7783: Procedure SpotLight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7784: Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7785: Procedure MakeSeamlessClip( var Dst : TBitmap; Seam : Integer)
7786: Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7787: Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7788: Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7789: Procedure SmoothResize( var Src, Dst : TBitmap)
7790: Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7791: Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7792: Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7793: Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7794: Procedure GrayScale( const Dst : TBitmap)
7795: Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7796: Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7797: Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7798: Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7799: Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7800: Procedure Spray( const Dst : TBitmap; Amount : Integer)
7801: Procedure Antialias( const Dst : TBitmap)
7802: Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7803: Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7804: Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7805: Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7806: Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7807: Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7808: Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7809: Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7810: Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7811: Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7812: Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7813: Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7814: Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7815: Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7816: Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7817: Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7818: Procedure Invert( Src : TBitmap)
7819: Procedure MirrorRight( Src : TBitmap)
7820: Procedure MirrorDown( Src : TBitmap)
7821: end;
7822: end;
7823:
7824: (*-----*)
7825: procedure SIRegister_JvPaintFX(CL: TPSPascalCompiler);
7826: begin
7827:   AddTypeS('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe'
7828:             + 'ye, lbrotate, lbtwist, lbrimble, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7829:             + 'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )'
7830:   SIRegister_TJvPaintFX(CL);
7831:   Function SplineFilter( Value : Single) : Single
7832:   Function BellFilter( Value : Single) : Single
7833:   Function TriangleFilter( Value : Single) : Single
7834:   Function BoxFilter( Value : Single) : Single
7835:   Function HermiteFilter( Value : Single) : Single
7836:   Function Lanczos3Filter( Value : Single) : Single
7837:   Function MitchellFilter( Value : Single) : Single
7838: end;
7839:
7840:
7841: (*-----*)
7842: procedure SIRegister_Chart(CL: TPSPascalCompiler);
7843: begin
7844:   'TeeMsg_DefaultFunctionName', 'String 'TeeFunction
7845:   TeeMsg_DefaultSeriesName', 'String 'Series
7846:   TeeMsg_DefaultToolName', 'String 'ChartTool
7847:   ChartComponentPalette', 'String 'TeeChart
7848:   TeeMaxLegendColumns', 'LongInt'( 2);
7849:   TeeDefaultLegendSymbolWidth', 'LongInt'( 20);
7850:   TeeTitleFootDistance, LongInt( 5);
7851:   SIRegister_TCustomChartWall(CL);
7852:   SIRegister_TChartWall(CL);
7853:   SIRegister_TChartLegendGradient(CL);
7854:   TLegendStyle', '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7855:   TLegendAlignment', '( laLeft, laRight, laTop, laBottom )

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7856: FindClass('TOBJECT'), 'LegendException
7857: TOnGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7858: +'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7859: FindClass('TOBJECT'), 'TCustomChartLegend
7860: TLegendSymbolSize', '( lcsPercent, lcsPixels )
7861: TLegendSymbolPosition', '( spLeft, spRight )
7862: TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7863: TSymbolCalcHeight', 'Function : Integer
7864: SIRegister_TLegendSymbol(CL);
7865: SIRegister_TTeeCustomShapePosition(CL);
7866: TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7867: SIRegister_TLegendTitle(CL);
7868: SIRegister_TLegendItem(CL);
7869: SIRegister_TLegendItems(CL);
7870: TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7871: FindClass('TOBJECT'), 'TCustomChart
7872: SIRegister_TCustomChartLegend(CL);
7873: SIRegister_TChartLegend(CL);
7874: SIRegister_TChartTitle(CL);
7875: SIRegister_TChartFootTitle(CL);
7876: TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7877: +'eButton; Shift : TShiftState; X, Y : Integer)
7878: TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7879: +'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7880: TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7881: +'TChartSeries; ValueIndex : Integer; Button: TMouseButton; Shift:TShiftState;X,Y:Integer)
7882: TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7883: +'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7884: TOnGetLegendPos', 'Procedure ( Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7885: TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7886: TAxissavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7887: +'toMax : Boolean; Min : Double; Max : Double; end
7888: TAxissavedScales', 'array of TAxissavedScales
7889: SIRegister_TChartBackWall(CL);
7890: SIRegister_TChartRightWall(CL);
7891: SIRegister_TChartBottomWall(CL);
7892: SIRegister_TChartLeftWall(CL);
7893: SIRegister_TChartWalls(CL);
7894: TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7895: SIRegister_TCustomChart(CL);
7896: SIRegister_TChart(CL);
7897: SIRegister_TTeeSeriesTypes(CL);
7898: SIRegister_TTeeToolTypes(CL);
7899: SIRegister_TTeeDragObject(CL);
7900: SIRegister_TColorPalettes(CL);
7901: Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
AGalleryPage:PString;ANumGallerySeries:Integer;
7902: Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADscription : PString);
7903: Procedure RegisterTeeFunction(AFunctClass:TTeeFunctionClass;ADescription,
AGalleryPage:PString;ANumGallerySeries: Int;
7904: Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADscription : PString)
7905: Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass;AFunctionClass:TTeeFunctionClass;
ADescription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7906: Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7907: Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7908: Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7909: Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass) : TTeeFunction
7910: Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
AFunctionClass : TTeeFunctionClass) : TChartSeries
7911: Function CloneChartSeries( ASeries : TChartSeries) : TChartSeries;
7912: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel) : TChartSeries;
7913: Function CloneChartSeries2(ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7914: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7915: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass ) : TChartSeries
7916: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass)
7917: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7918: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7919: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7920: Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7921: Procedure PaintSeriesLegend(ASeries:TChartSeries;ACanvas:TCanvas;const
R:TRect;ReferenceChart:TCustomChart);
7922: SIRegister_TChartTheme(CL);
7923: //TChartThemeClass', 'class of TChartTheme
7924: //TCanvasClass', 'class of TCanvas3D
7925: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7926: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7927: Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean)
7928: Procedure ShowMessageUser( const S : String)
7929: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7930: Function HasLabels( ASeries : TChartSeries ) : Boolean
7931: Function HasColors( ASeries : TChartSeries ) : Boolean
7932: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7933: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer)
7934: end;
7935:
7936:
7937: procedure SIRegister_TeeProcs(CL: TPPascalCompiler);
7938: begin
7939: //TeeFormBorderStyle', ' bsNone);

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7940: SIRegister_TMetafile(CL);
7941: 'TeeDefVerticalMargin','LongInt'(~ 4);
7942: 'TeeDefHorizMargin','LongInt'(~ 3);
7943: 'crTeeHand','LongInt'(~ TCursor(~ 2020));
7944: 'TeeMsg_TeeHand','String' 'crTeeHand';
7945: 'TeeNormalPrintDetail','LongInt'(~ 0);
7946: 'TeeHighPrintDetail','LongInt'(~ -100);
7947: 'TeeDefault_PrintMargin','LongInt'(~ 15);
7948: 'MaxDefaultColors','LongInt'(~ 19);
7949: 'TeeTabDelimiter','Char' #9;
7950: 'TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7951:   +'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7952:   +'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7953:   +'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7954:   +'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7955:   +'ourMonths, dtSixMonths, dtOneYear, dtNone )';
7956: SIRegister_TCustomPanelNoCaption(CL);
7957: FindClass('TOBJECT'), 'TCustomTeePanel';
7958: SIRegister_TZoomPanning(CL);
7959: SIRegister_TTeeEvent(CL);
7960: //SIRegister_TTeeEventListeners(CL);
7961: TTeeMouseEventKind, '( meDown, meUp, meMove )';
7962: SIRegister_TTeeMouseEvent(CL);
7963: SIRegister_TCustomTeePanel(CL);
7964: //TChartGradient', 'TTeeGradient
7965: //TChartGradientClass', 'class of TChartGradient
7966: TPanningMode, '( pmNone, pmHorizontal, pmVertical, pmBoth )';
7967: SIRegister_TTeeZoomPen(CL);
7968: SIRegister_TTeeZoomBrush(CL);
7969: TTeeZoomDirection, '( tzdHorizontal, tzdVertical, tzdBoth )';
7970: SIRegister_TTeeZoom(CL);
7971: FindClass('TOBJECT'), 'TCustomTeePanelExtended';
7972: TTeeBackImageMode, '( pbmStretch, pbmTile, pbmCenter, pbmCustom )';
7973: SIRegister_TBackImage(CL);
7974: SIRegister_TCustomTeePanelExtended(CL);
7975: //TChartBrushClass', 'class of TChartBrush
7976: SIRegister_TTeeCustomShapeBrushPen(CL);
7977: TChartObjectShapeStyle, '( fosRectangle, fosRoundRectangle, fosEllipse )';
7978: TTextFormat, '( ttfNormal, ttfHtml )';
7979: SIRegister_TTeeCustomShape(CL);
7980: SIRegister_TTeeShape(CL);
7981: SIRegister_TTeeExportData(CL);
7982: Function TeeStr( const Num : Integer ) : String;
7983: Function DateDefaultFormat( const AStep : Double ) : String;
7984: Function TEEDaysInMonth( Year, Month : Word ) : Word;
7985: Function FindDateTimeStep( const StepValue : Double ) : TDateTimeStep;
7986: Function NextDateTimeStep( const AStep : Double ) : Double;
7987: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
7988: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
7989: Function PointInLine2( const P, FromPoint, ToPoint : TPoint; const TolerancePixels : Integer ) : Boolean;
7990: Function PointInLine3( const P : TPoint; const px, py, qx, qy : Integer; const TolerancePixels : Integer ) : Boolean;
7991: Function PointInLineTolerance( const P : TPoint; const px, py, qx, qy, TolerancePixels : Integer ) : Boolean;
7992: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean;
7993: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;
7994: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
7995: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean;
7996: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
7997: Function PointInEllipse1( const P : TPoint; Left, Top, Right, Bottom : Integer ) : Boolean;
7998: Function DelphiToLocalFormat( const Format : String ) : String;
7999: Function LocalToDelphiFormat( const Format : String ) : String;
8000: Procedure TEEEnableControls(Enable : Boolean; const ControlArray : array of TControl);
8001: Function TeeRoundDate( const ADate : TDateTime; AStep : TDateTimeStep ) : TDateTime;
8002: Procedure TeeDateTimeIncrement( IsDateTime : Boolean; Increment : Boolean; var Value : Double; const AnIncrement : Double; tmpWhichDateTime : TDateTimeStep );
8003: TTeeSortCompare', 'Function ( a, b : Integer ) : Integer;
8004: TTeeSortSwap', 'Procedure ( a, b : Integer );
8005: Procedure TeeSort( StartIndex, EndIndex : Integer; CompareFunc : TTeeSortCompare; SwapFunc : TTeeSortSwap );
8006: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string;
8007: Function TeeExtractField( St : String; Index : Integer ) : String;
8008: Function TeeExtractField1( St : String; Index : Integer; const Separator : String ) : String;
8009: Function TeeNumFields( St : String ) : Integer;
8010: Function TeeNumFields1( const St, Separator : String ) : Integer;
8011: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap );
8012: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String );
8013: // TColorArray', 'array of TColor
8014: Function GetDefaultColor( const Index : Integer ) : TColor;
8015: Procedure SetDefaultColorPalette;
8016: Procedure SetDefaultColorPalettel( const Palette : array of TColor );
8017: 'TeeCheckBoxSize','LongInt'(~ 11);
8018: Procedure TeeDrawCheckBox( x, y : Integer; Canvas : TCanvas; Checked : Boolean; ABackColor : TColor; CheckBox : Boolean );
8019: Function TEEStrToFloatDef( const S : String; const Default : Extended ) : Extended;
8020: Function TryStrToFloat( const S : String; var Value : Double ) : Boolean;
8021: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double ) : Boolean;
8022: Procedure TeeTranslateControl( AControl : TControl );
8023: Procedure TeeTranslateControl( AControl : TControl; const ExcludeChilds : array of TControl );
8024: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char ) : String;
8025: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints );
8026: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean ) : TBitmap;
8027: //Procedure DrawBevel(Canvas : TTeeCanvas; Bevel : TPanelBevel; var R : TRect; Width : Integer; Round : Integer );

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8028: //Function ScreenRatio( ACanvas : TCanvas3D) : Double
8029: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean) : Boolean
8030: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean)
8031: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer) : Integer
8032: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer)
8033: Function TeeReadStringOption( const AKey, DefaultValue : String) : String
8034: Procedure TeeSaveStringOption( const AKey, Value : String)
8035: Function TeeDefaultXMLEncoding : String
8036: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean)
8037: TeeWindowHandle', Integer
8038: Procedure TeeGotoURL( Handle : TeeWindowHandle; const URL : String)
8039: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String)
8040: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String) : TSize
8041: end;
8042:
8043:
8044: using mXBDEUtils
8045: ****
8046: Procedure SetAlias( aAlias, aDirectory : String)
8047: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
8048: Function GetFileVersionNumber( const FileName : String) : TVersionNo
8049: Procedure SetBDE( aPath, aNode, aValue : String)
8050: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
8051: Function GetSystemDirectory( lpBuffer : string; uSize : UINT) : UINT
8052: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT) : UINT
8053: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string) : DWORD
8054: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string) : DWORD
8055: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
8056:
8057:
8058: procedure SIRegister_cDateTime(CL: TPPascalCompiler);
8059: begin
8060: AddClassN(FindClass('TOBJECT'), 'EDateTime'
8061: Function DatePart( const D : TDateTime) : Integer
8062: Function TimePart( const D : TDateTime) : Double
8063: Function Century( const D : TDateTime) : Word
8064: Function Year( const D : TDateTime) : Word
8065: Function Month( const D : TDateTime) : Word
8066: Function Day( const D : TDateTime) : Word
8067: Function Hour( const D : TDateTime) : Word
8068: Function Minute( const D : TDateTime) : Word
8069: Function Second( const D : TDateTime) : Word
8070: Function Millisecond( const D : TDateTime) : Word
8071: ('OneDay','Extended').setExtended( 1.0);
8072: ('OneHour','Extended').SetExtended( OneDay / 24);
8073: ('OneMinute','Extended').SetExtended( OneHour / 60);
8074: ('OneSecond','Extended').SetExtended( OneMinute / 60);
8075: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000);
8076: ('OneWeek','Extended').SetExtended( OneDay * 7);
8077: ('HoursPerDay','Extended').SetExtended( 24);
8078: ('MinutesPerHour','Extended').SetExtended( 60);
8079: ('SecondsPerMinute','Extended').SetExtended( 60);
8080: Procedure SetYear( var D : TDateTime; const Year : Word)
8081: Procedure SetMonth( var D : TDateTime; const Month : Word)
8082: Procedure SetDay( var D : TDateTime; const Day : Word)
8083: Procedure SetHour( var D : TDateTime; const Hour : Word)
8084: Procedure SetMinute( var D : TDateTime; const Minute : Word)
8085: Procedure SetSecond( var D : TDateTime; const Second : Word)
8086: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
8087: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
8088: Function IsEqual( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8089: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8090: Function IsAM( const D : TDateTime) : Boolean
8091: Function IsPM( const D : TDateTime) : Boolean
8092: Function IsMidnight( const D : TDateTime) : Boolean
8093: Function IsNoon( const D : TDateTime) : Boolean
8094: Function IsSunday( const D : TDateTime) : Boolean
8095: Function IsMonday( const D : TDateTime) : Boolean
8096: Function IsTuesday( const D : TDateTime) : Boolean
8097: Function IsWednesday( const D : TDateTime) : Boolean
8098: Function IsThursday( const D : TDateTime) : Boolean
8099: Function IsFriday( const D : TDateTime) : Boolean
8100: Function IsSaturday( const D : TDateTime) : Boolean
8101: Function IsWeekend( const D : TDateTime) : Boolean
8102: Function Noon( const D : TDateTime) : TDateTime
8103: Function Midnight( const D : TDateTime) : TDateTime
8104: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8105: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8106: Function NextWorkday( const D : TDateTime) : TDateTime
8107: Function PreviousWorkday( const D : TDateTime) : TDateTime
8108: Function FirstDayOfYear( const D : TDateTime) : TDateTime
8109: Function LastDayOfYear( const D : TDateTime) : TDateTime
8110: Function EasterSunday( const Year : Word) : TDateTime
8111: Function GoodFriday( const Year : Word) : TDateTime
8112: Function AddMilliseconds( const D : TDateTime; const N : Int64) : TDateTime
8113: Function AddSeconds( const D : TDateTime; const N : Int64) : TDateTime
8114: Function AddMinutes( const D : TDateTime; const N : Integer) : TDateTime
8115: Function AddHours( const D : TDateTime; const N : Integer) : TDateTime

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8116: Function AddDays( const D : TDateTime; const N : Integer ) : TDateTime
8117: Function AddWeeks( const D : TDateTime; const N : Integer ) : TDateTime
8118: Function AddMonths( const D : TDateTime; const N : Integer ) : TDateTime
8119: Function AddYears( const D : TDateTime; const N : Integer ) : TDateTime
8120: Function DayOfYear( const Ye, Mo, Da : Word ) : Integer
8121: Function DayOfYear( const D : TDateTime ) : Integer
8122: Function DaysInMonth( const Ye, Mo : Word ) : Integer
8123: Function DaysInMonth( const D : TDateTime ) : Integer
8124: Function DaysInYear( const Ye : Word ) : Integer
8125: Function DaysInYearDate( const D : TDateTime ) : Integer
8126: Function WeekNumber( const D : TDateTime ) : Integer
8127: Function ISOFirstWeekOfYear( const Ye : Word ) : TDateTime
8128: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word )
8129: Function DiffMilliseconds( const D1, D2 : TDateTime ) : Int64
8130: Function DiffSeconds( const D1, D2 : TDateTime ) : Integer
8131: Function DiffMinutes( const D1, D2 : TDateTime ) : Integer
8132: Function DiffHours( const D1, D2 : TDateTime ) : Integer
8133: Function DiffDays( const D1, D2 : TDateTime ) : Integer
8134: Function DiffWeeks( const D1, D2 : TDateTime ) : Integer
8135: Function DiffMonths( const D1, D2 : TDateTime ) : Integer
8136: Function DiffYears( const D1, D2 : TDateTime ) : Integer
8137: Function GMTBias : Integer
8138: Function GMTTimeToLocalTime( const D : TDateTime ) : TDateTime
8139: Function LocalTimeToGMTTime( const D : TDateTime ) : TDateTime
8140: Function NowAsGMTTime : TDateTime
8141: Function DateTimeToISO8601String( const D : TDateTime ) : AnsiString
8142: Function ISO8601StringToTime( const D : AnsiString ) : TDateTime
8143: Function ISO8601StringAsDateTime( const D : AnsiString ) : TDateTime
8144: Function DateTimeToANSI( const D : TDateTime ) : Integer
8145: Function ANSIToDateTime( const Julian : Integer ) : TDateTime
8146: Function DateTimeToISOInteger( const D : TDateTime ) : Integer
8147: Function DateTimeToISOString( const D : TDateTime ) : AnsiString
8148: Function ISOIntegerToDate( const ISOInteger : Integer ) : TDateTime
8149: Function TwoDigitRadix2000YearToYear( const Y : Integer ) : Integer
8150: Function DateTimeAsElapsed( const D:TDateTime; const IncludeMilliseconds:Boolean ):AnsiString
8151: Function UnixTimeToDate( const UnixTime : LongWord ) : TDateTime
8152: Function DateTimeToUnixTime( const D : TDateTime ) : LongWord
8153: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8154: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8155: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8156: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8157: Function EnglishShortMonthStrA( const Month : Integer ) : AnsiString
8158: Function EnglishShortMonthStrU( const Month : Integer ) : UnicodeString
8159: Function EnglishLongMonthStrA( const Month : Integer ) : AnsiString
8160: Function EnglishLongMonthStrU( const Month : Integer ) : UnicodeString
8161: Function EnglishShortDayOfWeekA( const S : AnsiString ) : Integer
8162: Function EnglishShortDayOfWeekU( const S : UnicodeString ) : Integer
8163: Function EnglishLongDayOfWeekA( const S : AnsiString ) : Integer
8164: Function EnglishLongDayOfWeekU( const S : UnicodeString ) : Integer
8165: Function EnglishShortMonthA( const S : AnsiString ) : Integer
8166: Function EnglishShortMonthU( const S : UnicodeString ) : Integer
8167: Function EnglishLongMonthA( const S : AnsiString ) : Integer
8168: Function EnglishLongMonthU( const S : UnicodeString ) : Integer
8169: Function RFC850DayOfWeekA( const S : AnsiString ) : Integer
8170: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8171: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8172: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8173: Function RFCMonthA( const S : AnsiString ) : Word
8174: Function RFCMonthU( const S : UnicodeString ) : Word
8175: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds:Boolean ) : AnsiString
8176: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds:Boolean ) : UnicodeString
8177: Function GMTDateTimeToRFC1123DateTimeA( const D : TDateTime; const IncludeDayOfWeek:Bool ):AnsiString;
8178: Function GMTDateTimeToRFC1123DateTimeU( const D:TDateTime;const IncludeDayOfWeek:Bool ):UnicodeString;
8179: Function DateTimeToRFCDateTimeA( const D : TDateTime ) : AnsiString
8180: Function DateTimeToRFCDateTimeU( const D : TDateTime ) : UnicodeString
8181: Function NowAsRFCDateTimeA : AnsiString
8182: Function NowAsRFCDateTimeU : UnicodeString
8183: Function RFCDateTimeToGMTDateTime( const S : AnsiString ) : TDateTime
8184: Function RFCDateTimeToDate( const S : AnsiString ) : TDateTime
8185: Function RFCTimeZoneToGMTBias( const Zone : AnsiString ) : Integer
8186: Function TimePeriodStr( const D : TDateTime ) : AnsiString
8187: Procedure SelfTest
8188: end;
8189: //*****CFileUtils
8190: Function PathHasDriveLetterA( const Path : AnsiString ) : Boolean
8191: Function PathHasDriveLetter( const Path : String ) : Boolean
8192: Function PathIsDriveLetterA( const Path : AnsiString ) : Boolean
8193: Function PathIsDriveLetter( const Path : String ) : Boolean
8194: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8195: Function PathIsDriveRoot( const Path : String ) : Boolean
8196: Function PathIsRootA( const Path : AnsiString ) : Boolean
8197: Function PathIsRoot( const Path : String ) : Boolean
8198: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8199: Function PathIsUNCPath( const Path : String ) : Boolean
8200: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8201: Function PathIsAbsolute( const Path : String ) : Boolean
8202: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8203: Function PathIsDirectory( const Path : String ) : Boolean
8204: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString

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8205: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8206: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8207: Function PathExclSuffix( const Path : String; const PathSep : Char ) : String
8208: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char )
8209: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char )
8210: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char )
8211: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char )
8212: //Function PathCanonical( const Path : AnsiString; const PathSep : Char ) : AnsiString
8213: Function PathCanonical( const Path : String; const PathSep : Char ) : String
8214: Function PathExpandA(const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8215: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8216: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8217: Function PathLeftElement( const Path : String; const PathSep : Char ) : String
8218: Procedure PathSplitLeftElementA(const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char);
8219: Procedure PathSplitLeftElement(const Path:String; var LeftElement,RightPath: String;const PathSep:Char);
8220: Procedure DecodeFilePathA(const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char);
8221: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char )
8222: Function FileNameValidA( const FileName : AnsiString ) : AnsiString
8223: Function FileNameValid( const FileName : String ) : String
8224: Function FilePathA(const FileName,Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString;
8225: Function FilePath(const FileName, Path : String;const basePath : String;const PathSep : Char ) : String
8226: Function DirectoryExpandA(const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8227: Function DirectoryExpand(const Path : String; const basePath : String; const PathSep : Char ) : String
8228: Function UnixPathToWinPath( const Path : AnsiString ) : AnsiString
8229: Function WinPathToUnixPath( const Path : AnsiString ) : AnsiString
8230: Procedure CCopyFile( const FileName, DestName : String )
8231: Procedure CMoveFile( const FileName, DestName : String )
8232: Function CDeleteFiles( const FileMode : String ) : Boolean
8233: Function FileSeekEx(const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8234: Procedure FileCloseEx( const FileHandle : TFileHandle )
8235: Function FileExistsA( const FileName : AnsiString ) : Boolean
8236: Function CFileExists( const FileName : String ) : Boolean
8237: Function CFileGetSize( const FileName : String ) : Int64
8238: Function FileGetDateTime( const FileName : String ) : TDateTime
8239: Function FileGetDateTime2( const FileName : String ) : TDateTime
8240: Function FileIsReadOnly( const FileName : String ) : Boolean
8241: Procedure FileDeleteEx( const FileName : String )
8242: Procedure FileRenameEx( const OldFileName, NewFileName : String )
8243: Function ReadfileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode : TFileCreationMode; const FileOpenWait : PFileOpenWait ) : AnsiString
8244: Function DirectoryEntryExists( const Name : String ) : Boolean
8245: Function DirectoryEntrySize( const Name : String ) : Int64
8246: Function CDirectoryExists( const DirectoryName : String ) : Boolean
8247: Function DirectoryGetDateTime( const DirectoryName : String ) : TDateTime
8248: Procedure CDirectoryCreate( const DirectoryName : String )
8249: Function GetFirstFileNameMatching( const FileMode : String ) : String
8250: Function DirEntryGetAttr( const FileName : AnsiString ) : Integer
8251: Function DirEntryIsDirectory( const FileName : AnsiString ) : Boolean
8252: Function FileHasAttr( const FileName : String; const Attr : Word ) : Boolean
8253: AddTypeS('TLogicalDriveType','( DriveRemovable, DriveFixed, DriveRemote,
8254:           +'DriveCDRom, DriveRamDisk, DriveTypeUnknown )')
8255: Function DriveIsValid( const Drive : Char ) : Boolean
8256: Function DriveGetType( const Path : AnsiString ) : TLogicalDriveType
8257: Function DriveFreeSpace( const Path : AnsiString ) : Int64
8258:
8259: procedure SIRegister_cTimers(CL: TPSPascalCompiler);
8260: begin
8261:   AddClassN(FindClass('TOBJECT'),'ETimers'
8262:   Const ('TickFrequency','LongInt'( 1000);Function GetTick : LongWord
8263:   Function TickDelta( const D1, D2 : LongWord ) : Integer
8264:   Function TickDeltaW( const D1, D2 : LongWord ) : LongWord
8265:     AddTypeS('THPTimer', 'Int64
8266:   Procedure StartTimer( var Timer : THPTimer )
8267:   Procedure StopTimer( var Timer : THPTimer )
8268:   Procedure ResumeTimer( var StoppedTimer : THPTimer )
8269:   Procedure InitStoppedTimer( var Timer : THPTimer )
8270:   Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer )
8271:   Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Integer
8272:   Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Int64
8273:   Procedure WaitMicroseconds( const MicroSeconds : Integer )
8274:   Function GetHighPrecisionFrequency : Int64
8275:   Function GetHighPrecisionTimerOverhead : Int64
8276:   Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64 )
8277:   Procedure SelfTestCTimer
8278: end;
8279:
8280: procedure SIRegister_cRandom(CL: TPSPascalCompiler);
8281: begin
8282:   Function RandomSeed : LongWord
8283:   Procedure AddEntropy( const Value : LongWord )
8284:   Function RandomUniform : LongWord;
8285:   Function RandomUniform1( const N : Integer ) : Integer;
8286:   Function RandomBoolean : Boolean
8287:   Function RandomByte : Byte
8288:   Function RandomByteNonZero : Byte
8289:   Function RandomWord : Word
8290:   Function RandomInt64 : Int64;
8291:   Function RandomInt64( const N : Int64 ) : Int64;
8292:   Function RandomHex( const Digits : Integer ) : String

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8293: Function RandomFloat : Extended
8294: Function RandomAlphaStr( const Length : Integer ) : AnsiString
8295: Function RandomPseudoWord( const Length : Integer ) : AnsiString
8296: Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8297: Function mwcRandomLongWord : LongWord
8298: Function urnRandomLongWord : LongWord
8299: Function moaRandomFloat : Extended
8300: Function mwcRandomFloat : Extended
8301: Function RandomNormalF : Extended
8302: Procedure SelfTestCRandom
8303: end;
8304:
8305: procedure SIRegister_SynEditMiscProcs(CL: TPSPascalCompiler);
8306: begin
8307: // PIntArray', '^TIntArray // will not work
8308: Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8309: TConvertTabsProcEx,function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8310: Function synMax( x, y : integer ) : integer
8311: Function synMin( x, y : integer ) : integer
8312: Function synMinMax( x, mi, ma : integer ) : integer
8313: Procedure synSwapInt( var l, r : integer )
8314: Function synMaxPoint( const P1, P2 : TPoint ) : TPoint
8315: Function synMinPoint( const P1, P2 : TPoint ) : TPoint
8316: //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray
8317: Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect )
8318: Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc
8319: Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString
8320: Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx
8321: Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8322: Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer
8323: Function synCharIndex2CaretPos( Index, TabWidth : integer; const Line : string ) : integer
8324: Function synCaretpos2CharIndex(Position,TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8325: Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSyndentChars):integer;
8326: Function synStrRScanForCharInSet(const Line:string;Start:integer;AChars:TSyndentChars):integer;
8327: TStringType', '( stNone, stWideNumAlpha, stHalfSymbol, stHalfSymbol, stHalfKat'
8328: +'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida )
8329: ('C3_NONSPACING','LongInt'( 1 );
8330: 'C3_DIACRITIC','LongInt'( 2 );
8331: 'C3_VOWELMARK','LongInt'( 4 );
8332: ('C3_SYMBOL','LongInt'( 8 );
8333: ('C3_KATAKANA','LongWord( $0010 );
8334: ('C3_HIRAGANA','LongWord( $0020 );
8335: ('C3_HALFWIDTH','LongWord( $0040 );
8336: ('C3_FULLWIDTH','LongWord( $0080 );
8337: ('C3_IDEOGRAPH','LongWord( $0100 );
8338: ('C3_KASHIDA','LongWord( $0200 );
8339: ('C3_LEXICAL','LongWord( $0400 );
8340: ('C3_ALPHA','LongWord( $8000 );
8341: ('C3_NOTAPPLICABLE','LongInt'( 0 );
8342: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8343: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8344: Function synIsStringType( Value : Word ) : TStringType
8345: Function synGetEOL( Line : PChar ) : PChar
8346: Function synEncodeString( s : string ) : string
8347: Function synDecodeString( s : string ) : string
8348: Procedure synFreeAndNil( var Obj: TObject )
8349: Procedure synAssert( Expr : Boolean )
8350: Function synLastDelimiter( const Delimiters, S : string ) : Integer
8351: TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8352: TReplaceFlags', 'set of TReplaceFlag )
8353: Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8354: Function synGetRValue( RGBValue : TColor ) : byte
8355: Function synGetGValue( RGBValue : TColor ) : byte
8356: Function synGetBValue( RGBValue : TColor ) : byte
8357: Function synRGB( r, g, b : Byte ) : Cardinal
8358: // THighlighterAttriProc', 'Function( Highlighter : TSynCustomHigh'
8359: // + lighter; Attr:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8360: //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8361: HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer) : Boolean
8362: Function synCalcFCs( const ABuf, ABufSize : Cardinal ) : Word
8363: Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
8364: AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8365: end;
8366:
8367: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM ) : WORD
8368: Function GET_DEVICE_LPARAM( lParam : LPARAM ) : WORD
8369: Function GET_KEYSTATE_LPARAM( lParam : LPARAM ) : WORD
8370: procedure SIRegister_synaututil(CL: TPSPascalCompiler);
8371: begin
8372: Function STimeZoneBias : integer
8373: Function TimeZone : string
8374: Function Rfc822DateTime( t : TDateTime ) : string
8375: Function CDateTime( t : TDateTime ) : string
8376: Function SimpleDateTime( t : TDateTime ) : string
8377: Function AnsiCDatetime( t : TDateTime ) : string
8378: Function GetMonthNumber( Value : String ) : integer
8379: Function GetTimeFromStr( Value : string ) : TDateTime

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8380: Function DecodeRfcDateTime( Value : string ) : TDateTime
8381: Function GetUTCTime : TDateTime
8382: Function SetUTCTime( Newdt : TDateTime ) : Boolean
8383: Function SGetTick : LongWord
8384: Function STickDelta( TickOld, TickNew : LongWord ) : LongWord
8385: Function CodeInt( Value : Word ) : Ansistring
8386: Function DecodeInt( const Value : Ansistring; Index : Integer ) : Word
8387: Function CodeLongInt( Value : LongInt ) : Ansistring
8388: Function DecodeLongInt( const Value : Ansistring; Index : Integer ) : LongInt
8389: Function DumpStr( const Buffer : Ansistring ) : string
8390: Function DumpExStr( const Buffer : Ansistring ) : string
8391: Procedure Dump( const Buffer : AnsiString; DumpFile : string )
8392: Procedure DumpEx( const Buffer : AnsiString; DumpFile : string )
8393: Function TrimSPLeft( const S : string ) : string
8394: Function TrimSPRight( const S : string ) : string
8395: Function TrimSP( const S : string ) : string
8396: Function SeparateLeft( const Value, Delimiter : string ) : string
8397: Function SeparateRight( const Value, Delimiter : string ) : string
8398: Function SGetParameter( const Value, Parameter : string ) : string
8399: Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings )
8400: Procedure ParseParameters( Value : string; const Parameters : TStrings )
8401: Function IndexByBegin( Value : string; const List : TStrings ) : integer
8402: Function GetEmailAddr( const Value : string ) : string
8403: Function GetEmailDesc( Value : string ) : string
8404: Function CStrToHex( const Value : Ansistring ) : string
8405: Function CIntToBin( Value : Integer; Digits : Byte ) : string
8406: Function CBinToInt( const Value : string ) : Integer
8407: Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8408: Function CRReplaceString( Value, Search, Replace : AnsiString ) : AnsiString
8409: Function CRPosEx( const Sub, Value : string; From : integer ) : Integer
8410: Function CRPos( const Sub, Value : String ) : Integer
8411: Function FetchBin( var Value : string; const Delimiter : string ) : string
8412: Function CFetch( var Value : string; const Delimiter : string ) : string
8413: Function FetchEx( var Value : string; const Delimiter, Quotation : string ) : string
8414: Function IsBinaryString( const Value : AnsiString ) : Boolean
8415: Function PosCRLF( const Value : AnsiString; var Terminator : AnsiString ) : integer
8416: Procedure StringsTrim( const value : TStrings )
8417: Function PosFrom( const SubStr, Value : String; From : integer ) : integer
8418: Function IncPoint( const p : __pointer; Value : integer ) : __pointer
8419: Function GetBetween( const PairBegin, PairEnd, Value : string ) : string
8420: Function CCCountOfChar( const Value : string; aChr : char ) : integer
8421: Function UnquoteStr( const Value : string; Quote : Char ) : string
8422: Function QuoteStr( const Value : string; Quote : Char ) : string
8423: Procedure HeadersToList( const Value : TStrings )
8424: Procedure ListToHeaders( const Value : TStrings )
8425: Function SwapBytes( Value : integer ) : integer
8426: Function ReadStrFromStream( const Stream : TStream; len : integer ) : AnsiString
8427: Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString )
8428: Function GetTempFile( const Dir, prefix : AnsiString ) : AnsiString
8429: Function CPadString( const Value : AnsiString; len : integer; Pad : AnsiChar ) : AnsiString
8430: Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8431: Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8432: end;
8433:
8434: procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8435: begin
8436:   ('CrcBufSize', 'LongInt'( 2048 );
8437:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8438:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8439:   Function Adler32OfFile( FileName : AnsiString ) : LongInt
8440:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8441:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8442:   Function Crc16OfFile( FileName : AnsiString ) : Cardinal
8443:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8444:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8445:   Function Crc32OfFile( FileName : AnsiString ) : LongInt
8446:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8447:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8448:   Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
8449:   Function Kermitt16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8450:   Function Kermitt16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8451:   Function Kermitt16OfFile( FileName : AnsiString ) : Cardinal
8452: end;
8453:
8454: procedure SIRegister_ComObj(cl: TPSPascalCompiler);
8455: begin
8456:   function CreateOleObject(const ClassName: String): IDispatch;
8457:   function GetActiveOleObject(const ClassName: String): IDispatch;
8458:   function ProgIDToClassID(const ProgID: string): TGUID;
8459:   function ClassIDToProgID(const ClassID: TGUID): string;
8460:   function CreateClassID: string;
8461:   function CreateGUIDString: string;
8462:   function CreateGUIDID: string;
8463:   procedure OleError(ErrorCode: longint);
8464:   procedure OleCheck(Result: HResult);
8465: end;
8466:
8467: Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8468: Function xGetActiveOleObject( const ClassName : string ) : Variant

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8469: //Function DllGetClassObject( const CLSID : TGUID; const IID : TIID; var Obj ) : HResult
8470: Function DllCanUnloadNow : HResult
8471: Function DllRegisterServer : HResult
8472: Function DllUnregisterServer : HResult
8473: Function VarFromInterface( Unknown : IUnknown ) : Variant
8474: Function VarToInterface( const V : Variant ) : IDispatch
8475: Function VarToAutoObject( const V : Variant ) : TAutoObject
8476: //Procedure
8477: DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8478: //Procedure DispInvokeError( Status : HResult; const ExcepInfo : TExcepInfo )
8479: Procedure OleError( ErrorCode : HResult )
8480: Procedure OleCheck( Result : HResult )
8481: Function StringToClassID( const S : string ) : TGUID
8482: Function ClassIDToString( const ClassID : TGUID ) : string
8483: Function xProgIDToClassID( const ProgID : string ) : TGUID
8484: Function xClassIDToProgID( const ClassID : TGUID ) : string
8485: Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8486: Function xWideSamestr( const S1, S2 : WideString ) : Boolean
8487: Function xGUIDToString( const ClassID : TGUID ) : string
8488: Function xStringToGUID( const S : string ) : TGUID
8489: Function xGetModuleName( Module : HMODULE ) : string
8490: Function xAcquireExceptionObject : TObject
8491: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8492: Function xUtf8Encode( const WS : WideString ) : UTF8String
8493: Function xExcludeTrailingPathDelimiter( const S : string ) : string
8494: Function xIncludeTrailingPathDelimiter( const S : string ) : string
8495: Function XRTLHandleCOMException : HResult
8496: Procedure XRTLCheckArgument( Flag : Boolean )
8497: //Procedure XRTLCheckOutArgument( out Arg )
8498: Procedure XRTLInterfaceConnect( const Source: IUnknown; const IID: TIID; const Sink: IUnknown; var Connection: Longint );
8499: Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID: TIID; var Connection : Longint )
8500: Function XRTLRegisterActiveObject( const Unk: IUnknown; const ClassID: TGUID; const Flags: DWORD; var RegisterCookie: Int ): HResult
8501: Function XRTLUUnRegisterActiveObject( var RegisterCookie : Integer ) : HResult
8502: //Function XRTLGetActiveObject( const ClassID : TGUID; const IID : TIID; out Obj ) : HResult
8503: Procedure XRTLEnumActiveObjects( Strings : TStrings )
8504: function XRTLDDefaultCategoryManager: IUnknown;
8505: function XRTLIsCategoryEmpty( CatID: TGUID; const CategoryManager: IUnknown = nil ): Boolean;
8506: // ICatRegister helper functions
8507: function XRTLCREATEComponentCategory( CatID: TGUID; const CatDescription: WideString;
8508:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8509:                                         const CategoryManager: IUnknown = nil ): HResult;
8510: function XRTLRemoveComponentCategory( CatID: TGUID; const CatDescription: WideString;
8511:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8512:                                         const CategoryManager: IUnknown = nil ): HResult;
8513: function XRTLRegisterCLSIDInCategory( const ClassID: TGUID; const CatID: TGUID;
8514:                                         const CategoryManager: IUnknown = nil ): HResult;
8515: function XRTLUUnRegisterCLSIDInCategory( const ClassID: TGUID; const CatID: TGUID;
8516:                                         const CategoryManager: IUnknown = nil ): HResult;
8517: // ICatInformation helper functions
8518: function XRTLGetCategoryDescription( const CatID: TGUID; var CatDescription: WideString;
8519:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8520:                                         const CategoryManager: IUnknown = nil ): HResult;
8521: function XRTLGetCategoryList( Strings: TStrings; LocaleID: TGUID = LOCALE_USER_DEFAULT;
8522:                                         const CategoryManager: IUnknown = nil ): HResult;
8523: function XRTLGetCategoryCLSIDList( const CatID: TGUID; Strings: TStrings;
8524:                                         const CategoryManager: IUnknown = nil ): HResult;
8525: function XRTLGetCategoryProgIDList( const CatID: TGUID; Strings: TStrings;
8526:                                         const CategoryManager: IUnknown = nil ): HResult;
8527: function XRTLFetch( var AInput: WideString; const ADelim: WideString = ' ';
8528:                         const ADelimit: Boolean = True ): WideString;
8529: function XRTLRPos( const ASub, AIn: WideString; AStart: Integer = -1 ): Integer;
8530: Function XRTLGetVariantAsString( const Value : Variant ) : string
8531: Function XRTLDateTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone ) : TDateTime
8532: Function XRTLGetTimeZones : TXRTLTimeZones
8533: Function XFileTimeToDateTime( FileTime : TFileTime ) : TDateTime
8534: Function DateTimeToFileTime( DateTime : TDateTime ) : TFileTime
8535: Function GMTNow : TDateTime
8536: Function GMTOToLocalTime( const GMT : TDateTime ) : TDateTime
8537: Function LocalTimeToGMT( const LocalTime : TDateTime ) : TDateTime
8538: Procedure XRTLNotImplemented
8539: Procedure XRTLRaiseError( E : Exception )
8540: Procedure XRTLRaise( E : Exception );
8541: Procedure XRaise( E : Exception );
8542: Procedure XRTLInvalidOperation( const ClassName:string; const OperationName:string; const Description: string )
8543:
8544:
8545: procedure SIRRegister_xrtl_util_Value(CL: TPPascalCompiler);
8546: begin
8547:   SIRRegister_IXRTLValue(CL);
8548:   SIRRegister_TXRTLValue(CL);
8549:   //AddTypeS('PXRTLValueArray', '^TXRTLValueArray // will not work
8550:   AddTypeS('TXRTLValueArray', 'array of IXRTLValue
8551:   Function XRTLValue( const AValue : Cardinal ) : IXRTLValue;
8552:   Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal ) : Cardinal;
8553:   Function XRTLGetAsCardinal( const IValue : IXRTLValue ) : Cardinal
8554:   Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal ) : Cardinal

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8555: Function XRTLValue1( const AValue : Integer ) : IXRTLValue;
8556: Function XRTLSSetValue1( const IValue : IXRTLValue; const AValue : Integer ) : Integer;
8557: Function XRTLGetAsInteger( const IValue : IXRTLValue ) : Integer
8558: Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer ) : Integer
8559: Function XRTLValue2( const AValue : Int64 ) : IXRTLValue;
8560: Function XRTLSSetValue2( const IValue : IXRTLValue; const AValue : Int64 ) : Int64;
8561: Function XRTLGetAsInt64( const IValue : IXRTLValue ) : Int64
8562: Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64 ) : Int64
8563: Function XRTLValue3( const AValue : Single ) : IXRTLValue;
8564: Function XRTLSSetValue3( const IValue : IXRTLValue; const AValue : Single ) : Single;
8565: Function XRTLGetAsSingle( const IValue : IXRTLValue ) : Single
8566: Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single ) : Single
8567: Function XRTLValue4( const AValue : Double ) : IXRTLValue;
8568: Function XRTLSSetValue4( const IValue : IXRTLValue; const AValue : Double ) : Double;
8569: Function XRTLGetAsDouble( const IValue : IXRTLValue ) : Double
8570: Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double ) : Double
8571: Function XRTLValue5( const AValue : Extended ) : IXRTLValue;
8572: Function XRTLSSetValue5( const IValue : IXRTLValue; const AValue : Extended ) : Extended;
8573: Function XRTLGetAsExtended( const IValue : IXRTLValue ) : Extended
8574: Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended ) : Extended
8575: Function XRTLValue6( const AValue : IInterface ) : IXRTLValue;
8576: Function XRTLSSetValue6( const IValue : IXRTLValue; const AValue : IInterface ) : IInterface;
8577: Function XRTLGetAsInterface( const IValue : IXRTLValue ) : IInterface;
8578: //Function XRTLGetAsInterface1( const IValue : IXRTLValue; out Obj ) : IInterface;
8579: Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface ) : IInterface;
8580: Function XRTLValue7( const AValue : WideString ) : IXRTLValue;
8581: Function XRTLS SetValue7( const IValue : IXRTLValue; const AValue : WideString ) : WideString;
8582: Function XRTLGetAsWideString( const IValue : IXRTLValue ) : WideString
8583: Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString ) : WideString
8584: Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean ) : IXRTLValue;
8585: Function XRTLS SetValue8( const IValue : IXRTLValue; const AValue : TObject ) : TObject;
8586: Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean ) : TObject;
8587: Function XRTLGetAsObjectDef( const IValue : IXRTLValue; const DefValue : TObject; const
     ADetachOwnership : Boolean ) : TObject;
8588: //Function XRTLValue9( const AValue : _Pointer ) : IXRTLValue;
8589: //Function XRTLS SetValue9( const IValue : IXRTLValue; const AValue : _Pointer ) : _Pointer;
8590: //Function XRTLGetAsPointer( const IValue : IXRTLValue ) : _Pointer
8591: //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : _Pointer ) : _Pointer
8592: Function XRTLValueV( const AValue : Variant ) : IXRTLValue;
8593: Function XRTLS SetValueV( const IValue : IXRTLValue; const AValue : Variant ) : Variant;
8594: Function XRTLGetAsVariant( const IValue : IXRTLValue ) : Variant
8595: Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant ) : Variant
8596: Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8597: Function XRTLS SetValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8598: Function XRTLGetAsCurrency( const IValue : IXRTLValue ) : Currency
8599: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency
8600: Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8601: Function XRTLS SetValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8602: Function XRTLGetAsComp( const IValue : IXRTLValue ) : Comp
8603: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp
8604: Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8605: Function XRTLS SetValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8606: Function XRTLGetAsClass( const IValue : IXRTLValue ) : TClass
8607: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass
8608: Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8609: Function XRTLS SetValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;
8610: Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID
8611: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID
8612: Function XRTLValue14( const AValue : Boolean ) : IXRTLValue;
8613: Function XRTLS SetValue14( const IValue : IXRTLValue; const AValue : Boolean ) : Boolean;
8614: Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean
8615: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean
8616: end;
8617:
8618: //*****unit uPSI_GR32;*****
8619:
8620: Function Color32( WinColor : TColor ) : TColor32;
8621: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8622: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8623: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32;
8624: Function WinColor( Color32 : TColor32 ) : TColor;
8625: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32;
8626: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte );
8627: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte );
8628: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components;
8629: Function RedComponent( Color32 : TColor32 ) : Integer;
8630: Function GreenComponent( Color32 : TColor32 ) : Integer;
8631: Function BlueComponent( Color32 : TColor32 ) : Integer;
8632: Function AlphaComponent( Color32 : TColor32 ) : Integer;
8633: Function Intensity( Color32 : TColor32 ) : Integer;
8634: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32;
8635: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8636: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single );
8637: Function HSLtoRGBO( H, S, L : Integer ) : TColor32;
8638: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte );
8639: Function WinPalette( const P : TPalette32 ) : HPALETTE;
8640: Function FloatPoint( X, Y : Single ) : TFloatPoint;
8641: Function FloatPoint1( const P : TPoint ) : TFloatPoint;
8642: Function FloatPoint2( const EXP : TFixedPoint ) : TFloatPoint;

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8643: Function FixedPoint( X, Y : Integer ) : TFixedPoint;
8644: Function FixedPoint1( X, Y : Single ) : TFixedPoint;
8645: Function FixedPoint2( const P : TPoint ) : TFfixedPoint;
8646: Function FixedPoint3( const FP : TFloatPoint ) : TFfixedPoint;
8647: AddTypeS('TRectRounding', '( rrClosest, rrOutside, rrInside )');
8648: Function MakeRect( const L, T, R, B : Integer ) : TRect;
8649: Function MakeRect1( const FR : TFloatRect; Rounding : TRectRounding ) : TRect;
8650: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding ) : TRect;
8651: Function GFixedRect( const L, T, R, B : TFixed ) : TRect;
8652: Function FixedRect1( const ARect : TRect ) : TRect;
8653: Function FixedRect2( const FR : TFloatRect ) : TRect;
8654: Function GFloatRect( const L, T, R, B : TFloat ) : TFloatRect;
8655: Function FloatRect1( const ARect : TRect ) : TFloatRect;
8656: Function FloatRect2( const FXR : TRect ) : TFloatRect;
8657: Function GIntersectRect( out Dst : TRect; const R1, R2 : TRect ) : Boolean;
8658: Function IntersectRect1( out Dst : TFloatRect; const FR1, FR2 : TFloatRect ) : Boolean;
8659: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
8660: Function UnionRect1( out Rect : TFloatRect; const R1, R2 : TFloatRect ) : Boolean;
8661: Function GEEqualRect( const R1, R2 : TRect ) : Boolean;
8662: Function EqualRect1( const R1, R2 : TFloatRect ) : Boolean;
8663: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer );
8664: Procedure InflateRect1( var FR : TFloatRect; Dx, Dy : TFloat );
8665: Procedure GOffsetRect( var R : TRect; Dx, Dy : Integer );
8666: Procedure OffsetRect1( var FR : TFloatRect; Dx, Dy : TFloat );
8667: Function IsRectEmpty( const R : TRect ) : Boolean;
8668: Function IsRectEmpty1( const FR : TFloatRect ) : Boolean;
8669: Function GPtInRect( const R : TRect; const P : TPoint ) : Boolean;
8670: Function PtInRect1( const R : TFloatRect; const P : TPoint ) : Boolean;
8671: Function PtInRect2( const R : TRect; const P : TFloatPoint ) : Boolean;
8672: Function PtInRect3( const R : TFloatRect; const P : TFloatPoint ) : Boolean;
8673: Function EqualRectSize( const R1, R2 : TRect ) : Boolean;
8674: Function EqualRectSize1( const R1, R2 : TFloatRect ) : Boolean;
8675: Function MessageBeep( uType : UINT ) : BOOL;
8676: Function ShowCursor( bShow : BOOL ) : Integer;
8677: Function SetCursorPos( X, Y : Integer ) : BOOL;
8678: Function SetCursor( hCursor : HICON ) : HCURSOR;
8679: Function GetCursorPos( var lpPoint : TPoint ) : BOOL;
8680: //Function ClipCursor( lpRect : PRect ) : BOOL;
8681: Function GetClipCursor( var lpRect : TRect ) : BOOL;
8682: Function GetCursor : HCURSOR;
8683: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer ) : BOOL;
8684: Function GetCaretBlinkTime : UINT;
8685: Function SetCaretBlinkTime( uSeconds : UINT ) : BOOL;
8686: Function DestroyCaret : BOOL;
8687: Function HideCaret( hWnd : HWND ) : BOOL;
8688: Function ShowCaret( hWnd : HWND ) : BOOL;
8689: Function SetCaretPos( X, Y : Integer ) : BOOL;
8690: Function GetCaretPos( var lpPoint : TPoint ) : BOOL;
8691: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint ) : BOOL;
8692: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint ) : BOOL;
8693: Function MapWindowPoints( hWndFrom, hWndTo : HWND; var lpPoints, cPoints : UINT ) : Integer;
8694: Function WindowFromPoint( Point : TPoint ) : HWND;
8695: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint ) : HWND;
8696:
8697:
8698: procedure SIRegister_GR32_Math(CL: TPSPPascalCompiler);
8699: begin
8700:   Function FixedFloor( A : TFixed ) : Integer;
8701:   Function FixedCeil( A : TFixed ) : Integer;
8702:   Function FixedMul( A, B : TFixed ) : TFixed;
8703:   Function FixedDiv( A, B : TFixed ) : TFixed;
8704:   Function OneOver( Value : TFixed ) : TFixed;
8705:   Function FixedRound( A : TFixed ) : Integer;
8706:   Function FixedSqr( Value : TFixed ) : TFixed;
8707:   Function FixedSqrtLP( Value : TFixed ) : TFixed;
8708:   Function FixedSqrtHP( Value : TFixed ) : TFixed;
8709:   Function FixedCombine( W, X, Y : TFixed ) : TFixed;
8710:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8711:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single );
8712:   Function GRHypot( const X, Y : TFloat ) : TFloat;
8713:   Function Hypot( const X, Y : Integer ) : Integer;
8714:   Function FastSqr( const Value : TFloat ) : TFloat;
8715:   Function FastSqrtBab1( const Value : TFloat ) : TFloat;
8716:   Function FastSqrtBab2( const Value : TFloat ) : TFloat;
8717:   Function FastInvSqr( const Value : Single ) : Single;
8718:   Function MulDiv( Multipliand, Multiplier, Divisor : Integer ) : Integer;
8719:   Function GRIsPowerOf2( Value : Integer ) : Boolean;
8720:   Function PrevPowerOf2( Value : Integer ) : Integer;
8721:   Function NextPowerOf2( Value : Integer ) : Integer;
8722:   Function Average( A, B : Integer ) : Integer;
8723:   Function GRSign( Value : Integer ) : Integer;
8724:   Function FloatMod( x, y : Double ) : Double;
8725: end;
8726:
8727: procedure SIRegister_GR32_LowLevel(CL: TPSPPascalCompiler);
8728: begin
8729:   Function Clamp( const Value : Integer ) : Integer;
8730:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword );
8731:   Function StackAlloc( Size : Integer ) : Pointer;

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8732: Procedure StackFree( P : Pointer);
8733: Procedure Swap( var A, B : Pointer);
8734: Procedure Swap1( var A, B : Integer);
8735: Procedure Swap2( var A, B : TFixed);
8736: Procedure Swap3( var A, B : TColor32);
8737: Procedure TestSwap( var A, B : Integer);
8738: Procedure TestSwap1( var A, B : TFixed);
8739: Function TestClip( var A, B : Integer; const Size : Integer) : Boolean;
8740: Function TestClip1( var A, B : Integer; const Start, Stop : Integer) : Boolean;
8741: Function GRConstrain( const Value, Lo, Hi : Integer) : Integer;
8742: Function Constrain1( const Value, Lo, Hi : Single) : Single;
8743: Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer) : Integer
8744: Function GRMin( const A, B, C : Integer) : Integer;
8745: Function GRMax( const A, B, C : Integer) : Integer;
8746: Function Clamp( Value, Max : Integer) : Integer;
8747: Function Clamp1( Value, Min, Max : Integer) : Integer;
8748: Function Wrap( Value, Max : Integer) : Integer;
8749: Function Wrap1( Value, Min, Max : Integer) : Integer;
8750: Function Wrap3( Value, Max : Single) : Single;;
8751: Function WrapPow2( Value, Max : Integer) : Integer;
8752: Function WrapPow21( Value, Min, Max : Integer) : Integer;
8753: Function Mirror( Value, Max : Integer) : Integer;
8754: Function Mirror1( Value, Min, Max : Integer) : Integer;
8755: Function MirrorPow2( Value, Max : Integer) : Integer;
8756: Function MirrorPow21( Value, Min, Max : Integer) : Integer;
8757: Function GetOptimalWrap( Max : Integer) : TWrapProc;
8758: Function GetOptimalWrap1( Min, Max : Integer) : TWrapProcEx;
8759: Function GetOptimalMirror( Max : Integer) : TWrapProc;
8760: Function GetOptimalMirror1( Min, Max : Integer) : TWrapProcEx;
8761: Function GetWrapProc( WrapMode : TWrapMode) : TWrapProc;
8762: Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer) : TWrapProc;
8763: Function GetWrapProcEx( WrapMode : TWrapMode) : TWrapProcEx;
8764: Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer):TWrapProcEx;
8765: Function Div255( Value : Cardinal) : Cardinal;
8766: Function SAR_4( Value : Integer) : Integer;
8767: Function SAR_8( Value : Integer) : Integer;
8768: Function SAR_9( Value : Integer) : Integer;
8769: Function SAR_11( Value : Integer) : Integer;
8770: Function SAR_12( Value : Integer) : Integer;
8771: Function SAR_13( Value : Integer) : Integer;
8772: Function SAR_14( Value : Integer) : Integer;
8773: Function SAR_15( Value : Integer) : Integer;
8774: Function SAR_16( Value : Integer) : Integer;
8775: Function ColorSwap( WinColor : TColor) : TColor32;
8776: end;
8777:
8778: procedure SIRegister_GR32_Filters(CL: TPPSPascalCompiler);
8779: begin
8780:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )');
8781:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8782:   Procedure CopyComponents1(Dst:TCustBmap32;DstX,DstY:Int;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8783:     Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32 );
8784:     Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean );
8785:     Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32 );
8786:     Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8787:     Procedure InvertRGB( Dst, Src : TCustomBitmap32 );
8788:     Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean );
8789:     Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32 );
8790:   Function CreateBitmask( Components : TColor32Components ) : TColor32;
8791:   Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
8792:     Bitmask : TColor32; LogicalOperator : TLogicalOperator );
8793:   Procedure ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8794:   Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean );
8795: end;
8796:
8797: procedure SIRegister_JclNTFS(CL: TPPSPascalCompiler);
8798: begin
8799:   AddClassN(FindClass('TOBJECT'), 'EJclNtfsError');
8800:   AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
8801:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8802:   Function NtfsGetCompression1( const FileName : string ) : TFileCompressionState;
8803:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean;
8804:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState );
8805:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState);
8806:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState);
8807:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState:Recursive:Boolean);
8808:   //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloc';
8809:   //+'tedRangeBuffer; MoreData : Boolean; end
8810:   Function NtfsSetSparse( const FileName : string ) : Boolean;
8811:   Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64 ) : Boolean;
8812:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean;
8813:   //Function NtfsQueryAllocRanges(const FileName:string,Offset,Count:Int64,var
8814:   //Ranges:TNtfsAllocRanges):Boolean;
8815:   //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
8816:   Index:Integer):TFileAllocatedRangeBuffer
8815:   Function NtfsSparseStreamsSupported( const Volume : string ) : Boolean;

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8816: Function NtfsGetSparse( const FileName : string ) : Boolean
8817: Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD ) : Boolean
8818: Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword ) : Boolean
8819: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8820: Function NtfsGetReparseTag( const Path : string; var Tag : DWORD ) : Boolean
8821: Function NtfsReparsePointsSupported( const Volume : string ) : Boolean
8822: Function NtfsFileHasReparsePoint( const Path : string ) : Boolean
8823: Function NtfsIsFolderMountPoint( const Path : string ) : Boolean
8824: Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char ) : Boolean
8825: Function NtfsMountVolume( const Volume : Char; const MountPoint : string ) : Boolean
8826: AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )')
8827: Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8828: Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8829: Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8830: Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8831: Function NtfsRequestOpLock( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean
8832: Function NtfsCreateJunctionPoint( const Source, Destination : string ) : Boolean
8833: Function NtfsDeleteJunctionPoint( const Source : string ) : Boolean
8834: Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string ) : Boolean
8835: AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8836: +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )')
8837: AddTypeS('TStreamIds', 'set of TStreamId')
8838: AddTypeS('TInternalFindStreamData', 'record FileHandle : THandle; Context :'
8839: +'__Pointer; StreamIds : TStreamIds; end')
8840: AddTypeS('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8841: +'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end')
8842: Function NtfsFindFirstStream( const FileName:string; StreamIds:TStreamIds; var Data:TFindStreamData ): Boolean;
8843: Function NtfsFindNextStream( var Data : TFindStreamData ) : Boolean
8844: Function NtfsFindStreamClose( var Data : TFindStreamData ) : Boolean
8845: Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string ) : Boolean
8846: AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end')
8847: Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean
8848: Function NtfsFindHardLinks( const Path:string; const FileIndexHigh, FileIndexLow:Cardinal; const
List:TStrings ):Bool;
8849: Function NtfsDeleteHardlinks( const FileName : string ) : Boolean
8850: Function JclAppInstances : TJclAppInstances;
8851: Function JclAppInstances1( const UniqueAppIdGuidStr : string ) : TJclAppInstances;
8852: Function ReadMessageCheck( var Message : TMessage; const IgnoredOriginatorWnd : HWND ) : TJclAppInstDataKind;
8853: Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer );
8854: Procedure ReadMessageString( const Message : TMessage; var S : string );
8855: Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings );
8856:
8857:
8858: (*-----*)
8859: procedure SIRegister_JclGraphics(CL: TPPascalCompiler);
8860: begin
8861:   FindClass('TOBJECT','EJclGraphicsError');
8862:   TDynIntegerArrayArray', 'array of TDynIntegerArray
8863:   TDynPointArray', 'array of TPoint
8864:   TDynDynPointArrayArray', 'array of TDynPointArray
8865:   TPointF', 'record X : Single; Y : Single; end
8866:   TDynPointArrayF', 'array of TPointF
8867:   TDrawMode2', '( dmOpaque, dmBlend )
8868:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8869:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8870:   TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8871:   TMatrix3d', 'record array[0..2,0..2] of extended end
8872:   TDynDynPointArrayArrayF', 'array of TDynPointArrayF
8873:   TScanLine', 'array of Integer
8874:   TScanLines', 'array of TScanLine
8875:   TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8876:   TGradientDirection', '( gdVertical, gdHorizontal )
8877:   TPolyFillMode', '( fmAlternate, fmWinding )
8878:   TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8879:   TJclRegionBitmapMode', '( rmInclude, rmExclude )
8880:   TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8881:   SIRegister_TJclDesktopCanvas(CL);
8882:   FindClass('TOBJECT','TJclRegion');
8883:   SIRegister_TJclRegionInfo(CL);
8884:   SIRegister_TJclRegion(CL);
8885:   SIRegister_TJclThreadPersistent(CL);
8886:   SIRegister_TJclCustomMap(CL);
8887:   SIRegister_TJclBitmap32(CL);
8888:   SIRegister_TJclByteMap(CL);
8889:   SIRegister_TJclTransformation(CL);
8890:   SIRegister_TJclLinearTransformation(CL);
8891:   Procedure Stretch(NewWidth,
NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8892:   Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8893:   Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer )
8894:   Function GetAntialiasedBitmap( const Bitmap : TBitmap ) : TBitmap
8895:   Procedure BitmapToJpeg( const FileName : string )
8896:   Procedure JpegToBitmap( const FileName : string )
8897:   Function ExtractIconCount( const FileName : string ) : Integer
8898:   Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer ) : HICON
8899:   Function IconToBitmapJ( Icon : HICON ) : HBITMAP
8900:   Procedure
BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8901:   Procedure StretchTransfer(Dst:TJclBitmap32;
DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)

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8902: Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8903: Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect)
8904: Function FillGradient(DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection : TGradientDirection) : Boolean;
8905: Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
RegionBitmapMode:TJclRegionBitmapMode): HRGN
8906: Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND);
8907: Procedure ScreenShot( bm : TBitmap);
8908: Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8909: Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8910: Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8911: Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8912: Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8913: Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8914: Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8915: Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8916: Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArrayF;Color:TColor32);
8917: Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32)
8918: Procedure IntensityToAlpha( Dst, Src : TJclBitmap32)
8919: Procedure Invert( Dst, Src : TJclBitmap32)
8920: Procedure InvertRGB( Dst, Src : TJclBitmap32)
8921: Procedure ColorToGrayscale( Dst, Src : TJclBitmap32)
8922: Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8)
8923: Procedure SetGamma( Gamma : Single)
8924: end;
8925:
8926: (*-----*)
8927: procedure SIRegister_JclSynch(CL: TPPascalCompiler);
8928: begin
8929:   Function LockedAdd( var Target : Integer; Value : Integer) : Integer
8930:   Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer) : Integer
8931:   Function LockedCompareExchange1( var Target : __Pointer; Exch, Comp : __Pointer) : Pointer;
8932:   Function LockedDec( var Target : Integer) : Integer
8933:   Function LockedExchange( var Target : Integer; Value : Integer) : Integer
8934:   Function LockedExchangeAdd( var Target : Integer; Value : Integer) : Integer
8935:   Function LockedExchangeDec( var Target : Integer) : Integer
8936:   Function LockedExchangeInc( var Target : Integer) : Integer
8937:   Function LockedExchangeSub( var Target : Integer; Value : Integer) : Integer
8938:   Function LockedInc( var Target : Integer) : Integer
8939:   Function LockedSub( var Target : Integer; Value : Integer) : Integer
8940:   TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8941:   SIRegister_TJclDispatcherObject(CL);
8942:   Function WaitForMultipleObjects(const Objects:array of
TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8943:   Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
TimeOut : Cardinal):Cardinal
8944:   SIRegister_TJclCriticalSection(CL);
8945:   SIRegister_TJclCriticalSectionEx(CL);
8946:   SIRegister_TJclEvent(CL);
8947:   SIRegister_TJclWaitableTimer(CL);
8948:   SIRegister_TJclSemaphore(CL);
8949:   SIRegister_TJclMutex(CL);
8950:   POptexSharedInfo', '^TOptexSharedInfo // will not work
8951:   TOptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8952:   SIRegister_TJclOptex(CL);
8953:   TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8954:   TMrewThreadInfo', 'record ThreadId : Longword; RecursionCount: Integer; Reader : Boolean; end
8955:   TMrewThreadInfoArray', 'array of TMrewThreadInfo
8956:   SIRegister_TJclMultiReadExclusiveWrite(CL);
8957:   PMetSectSharedInfo', '^TMetSectSharedInfo // will not work
8958:   TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock :
8959:     +Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8960:   PMeteredSection', '^TMeteredSection // will not work
8961:   TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8962:   SIRegister_TJclMeteredSection(CL);
8963:   TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8964:   TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8965:   TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8966:   TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8967:   Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTCriticalSection) : Boolean
8968:   Function QueryEvent( Handle : THandle; var Info : TEventInfo) : Boolean
8969:   Function QueryMutex( Handle : THandle; var Info : TMutexInfo) : Boolean
8970:   Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts) : Boolean
8971:   Function QueryTimer( Handle : THandle; var Info : TTimerInfo) : Boolean
8972:   FindClass('TOBJECT'), 'EJclWin32HandleObjectError
8973:   FindClass('TOBJECT'), 'EJclDispatcherObjectError
8974:   FindClass('TOBJECT'), 'EJclCriticalSectionError
8975:   FindClass('TOBJECT'), 'EJclEventError
8976:   FindClass('TOBJECT'), 'EJclWaitableTimerError
8977:   FindClass('TOBJECT'), 'EJclSemaphoreError
8978:   FindClass('TOBJECT'), 'EJclMutexError
8979:   FindClass('TOBJECT'), 'EJclMeteredSectionError
8980: end;
8981:
8982:
8983: //*****unit uPSI_mORMotReport;
8984: Procedure SetCurrentPrinterAsDefault
8985: Function CurrentPrinterName : string
8986: Function mCurrentPrinterPaperSize : string

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8987: Procedure UseDefaultPrinter
8988:
8989: procedure SIRegisterTSTREAM(C1: TPSPascalCompiler);
8990: begin
8991:   with FindClass('TOBJECT'), 'TStream') do begin
8992:     IsAbstract := True;
8993:     //RegisterMethod('Function Read( var Buffer, Count : Longint) : Longint
8994:     // RegisterMethod('Function Write( const Buffer, Count : Longint) : Longint
8995:     function Read(Buffer:String;Count:LongInt):LongInt
8996:     function Write(Buffer:String;Count:LongInt):LongInt
8997:     function ReadString(Buffer:String;Count:LongInt):LongInt    //FileStream
8998:     function WriteString(Buffer:String;Count:LongInt):LongInt
8999:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
9000:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
9001:     function ReadByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
9002:     function WriteByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
9003:
9004:   procedure ReadAB(Buffer: TByteArray;Count:LongInt)
9005:   procedure WriteAB(Buffer: TByteArray;Count:LongInt)
9006:   procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
9007:   procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
9008:   procedure ReadAC(Buffer: TCharArray;Count:LongInt)
9009:   procedure WriteAC(Buffer: TCharArray;Count:LongInt)
9010:   procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
9011:   procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
9012:
9013:   function Seek(Offset:LongInt;Origin:Word):LongInt
9014:   procedure ReadBuffer(Buffer:String;Count:LongInt)
9015:   procedure WriteBuffer(Buffer:String;Count:LongInt)
9016:   procedure ReadBufferInt(Buffer:Integer;Count:LongInt)';
9017:   procedure WriteBufferInt(Buffer:Integer;Count:LongInt)';
9018:   procedure ReadBufferFloat(Buffer:Double;Count:LongInt)';
9019:   procedure WriteBufferFloat(Buffer:Double;Count:LongInt)';
9020:
9021:   procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
9022:   procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
9023:   procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
9024:   procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
9025:   procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
9026:   procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
9027:   procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
9028:   procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
9029:   procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
9030:   procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
9031:   procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
9032:   procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
9033:   procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
9034:   procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
9035:
9036:   procedure ReadBufferP(Buffer: PChar;Count:LongInt)
9037:   procedure WriteBufferP(Buffer: PChar;Count:LongInt)
9038:   procedure ReadBufferO(Buffer: TObject;Count:LongInt)';
9039:   procedure WriteBufferO(Buffer: TObject;Count:LongInt)';
9040:   //READBUFFERAC
9041:   function InstanceSize: Longint
9042:   Procedure FixupResourceHeader( FixupInfo : Integer)
9043:   Procedure ReadResHeader
9044:
9045: {$IFDEF DELPHI4UP}
9046:   function CopyFrom(Source:TStream;Count:Int64):LongInt
9047: {$ELSE}
9048:   function CopyFrom(Source:TStream;Count:Integer):LongInt
9049: {$ENDIF}
9050:   RegisterProperty('Position', 'LongInt', iptrw);
9051:   RegisterProperty('Size', 'LongInt', iptrw);
9052: end;
9053: end;
9054:
9055:
9056: { ****
9057: Unit DMATH - Interface for DMATH.DLL
9058: **** }
9059: // see more docs/dmath_manual.pdf
9060:
9061: Function InitEval : Integer
9062: Procedure SetVariable( VarName : Char; Value : Float)
9063: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
9064: Function Eval( ExpressionString : String) : Float
9065:
9066: unit dmath; //types are in built, others are external in DLL
9067: interface
9068: {$IFDEF DELPHI}
9069: uses
9070:   StdCtrls, Graphics;
9071: {$ENDIF}
9072: { -----
9073:   Types and constants
9074:   ----- }
9075: {$i types.inc}

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9076: { -----
9077:   Error handling
9078: -----
9079: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9080: { Sets the error code }
9081: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9082: { Sets error code and default function value }
9083: function MathErr : Integer; external 'dmath';
9084: { Returns the error code }
9085: { -----
9086:   Dynamic arrays
9087: -----
9088: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9089: { Sets the auto-initialization of arrays }
9090: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9091: { Creates floating point vector V[0..Ub] }
9092: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9093: { Creates integer vector V[0..Ub] }
9094: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9095: { Creates complex vector V[0..Ub] }
9096: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9097: { Creates boolean vector V[0..Ub] }
9098: procedure DimStrVector(var V : TStringVector; Ub : Integer); external 'dmath';
9099: { Creates string vector V[0..Ub] }
9100: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9101: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9102: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9103: { Creates integer matrix A[0..Ub1, 0..Ub2] }
9104: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9105: { Creates complex matrix A[0..Ub1, 0..Ub2] }
9106: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9107: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9108: procedure DimStrMatrix(var A : TStringMatrix; Ub1, Ub2 : Integer); external 'dmath';
9109: { Creates string matrix A[0..Ub1, 0..Ub2] }
9110: { -----
9111:   Minimum, maximum, sign and exchange
9112: -----
9113: function FMin(X, Y : Float) : Float; external 'dmath';
9114: { Minimum of 2 reals }
9115: function FMax(X, Y : Float) : Float; external 'dmath';
9116: { Maximum of 2 reals }
9117: function IMin(X, Y : Integer) : Integer; external 'dmath';
9118: { Minimum of 2 integers }
9119: function IMax(X, Y : Integer) : Integer; external 'dmath';
9120: { Maximum of 2 integers }
9121: function Sgn(X : Float) : Integer; external 'dmath';
9122: { Sign (returns 1 if X = 0) }
9123: function Sgn0(X : Float) : Integer; external 'dmath';
9124: { Sign (returns 0 if X = 0) }
9125: function DSgn(A, B : Float) : Float; external 'dmath';
9126: { Sgn(B) * |A| }
9127: procedure FSwap(var X, Y : Float); external 'dmath';
9128: { Exchange 2 reals }
9129: procedure ISwap(var X, Y : Integer); external 'dmath';
9130: { Exchange 2 integers }
9131: { -----
9132:   Rounding functions
9133: -----
9134: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9135: { Rounds X to N decimal places }
9136: function Ceil(X : Float) : Integer; external 'dmath';
9137: { Ceiling function }
9138: function Floor(X : Float) : Integer; external 'dmath';
9139: { Floor function }
9140: { -----
9141:   Logarithms, exponentials and power
9142: -----
9143: function Exp(X : Float) : Float; external 'dmath';
9144: { Exponential }
9145: function Exp2(X : Float) : Float; external 'dmath';
9146: { 2^X }
9147: function Exp10(X : Float) : Float; external 'dmath';
9148: { 10^X }
9149: function Log(X : Float) : Float; external 'dmath';
9150: { Natural log }
9151: function Log2(X : Float) : Float; external 'dmath';
9152: { Log, base 2 }
9153: function Log10(X : Float) : Float; external 'dmath';
9154: { Decimal log }
9155: function LogA(X, A : Float) : Float; external 'dmath';
9156: { Log, base A }
9157: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9158: { X^N }
9159: function Power(X, Y : Float) : Float; external 'dmath';
9160: { X^Y, X >= 0 }
9161: { -----
9162:   Trigonometric functions
9163: -----
9164: function Pythag(X, Y : Float) : Float; external 'dmath';

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9165: { Sqrt(X^2 + Y^2) }
9166: function FixAngle(Theta : Float) : Float; external 'dmath';
9167: { Set Theta in -Pi..Pi }
9168: function Tan(X : Float) : Float; external 'dmath';
9169: { Tangent }
9170: function ArcSin(X : Float) : Float; external 'dmath';
9171: { Arc sinus }
9172: function ArcCos(X : Float) : Float; external 'dmath';
9173: { Arc cosinus }
9174: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9175: { Angle (Ox, OM) with M(X,Y) }
9176: { -----
9177:   Hyperbolic functions
9178:   ----- }
9179: function Sinh(X : Float) : Float; external 'dmath';
9180: { Hyperbolic sine }
9181: function Cosh(X : Float) : Float; external 'dmath';
9182: { Hyperbolic cosine }
9183: function Tanh(X : Float) : Float; external 'dmath';
9184: { Hyperbolic tangent }
9185: function ArcSinh(X : Float) : Float; external 'dmath';
9186: { Inverse hyperbolic sine }
9187: function ArcCosh(X : Float) : Float; external 'dmath';
9188: { Inverse hyperbolic cosine }
9189: function ArcTanh(X : Float) : Float; external 'dmath';
9190: { Inverse hyperbolic tangent }
9191: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9192: { Sinh & Cosh }
9193: { -----
9194:   Gamma function and related functions
9195:   ----- }
9196: function Fact(N : Integer) : Float; external 'dmath';
9197: { Factorial }
9198: function SgnGamma(X : Float) : Integer; external 'dmath';
9199: { Sign of Gamma function }
9200: function Gamma(X : Float) : Float; external 'dmath';
9201: { Gamma function }
9202: function LnGamma(X : Float) : Float; external 'dmath';
9203: { Logarithm of Gamma function }
9204: function Stirling(X : Float) : Float; external 'dmath';
9205: { Stirling's formula for the Gamma function }
9206: function StirLog(X : Float) : Float; external 'dmath';
9207: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9208: function DiGamma(X : Float) : Float; external 'dmath';
9209: { Digamma function }
9210: function TriGamma(X : Float) : Float; external 'dmath';
9211: { Trigamma function }
9212: function IGamma(A, X : Float) : Float; external 'dmath';
9213: { Incomplete Gamma function }
9214: function JGamma(A, X : Float) : Float; external 'dmath';
9215: { Complement of incomplete Gamma function }
9216: function InvGamma(A, P : Float) : Float; external 'dmath';
9217: { Inverse of incomplete Gamma function }
9218: function Erf(X : Float) : Float; external 'dmath';
9219: { Error function }
9220: function Erfc(X : Float) : Float; external 'dmath';
9221: { Complement of error function }
9222: { -----
9223:   Beta function and related functions
9224:   ----- }
9225: function Beta(X, Y : Float) : Float; external 'dmath';
9226: { Beta function }
9227: function IBeta(A, B, X : Float) : Float; external 'dmath';
9228: { Incomplete Beta function }
9229: function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9230: { Inverse of incomplete Beta function }
9231: { -----
9232:   Lambert's function
9233:   ----- }
9234: function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9235: { -----
9236:   Binomial distribution
9237:   ----- }
9238: function Binomial(N, K : Integer) : Float; external 'dmath';
9239: { Binomial coefficient C(N,K) }
9240: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9241: { Probability of binomial distribution }
9242: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9243: { Cumulative probability for binomial distrib. }
9244: { -----
9245:   Poisson distribution
9246:   ----- }
9247: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9248: { Probability of Poisson distribution }
9249: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9250: { Cumulative probability for Poisson distrib. }
9251: { -----
9252:   Exponential distribution
9253:   ----- }

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9254: function DExpo(A, X : Float) : Float; external 'dmath';
9255: { Density of exponential distribution with parameter A }
9256: function FExpo(A, X : Float) : Float; external 'dmath';
9257: { Cumulative probability function for exponential dist. with parameter A }
9258: { -----
9259: Standard normal distribution
9260: ----- }
9261: function DNorm(X : Float) : Float; external 'dmath';
9262: { Density of standard normal distribution }
9263: function FNorm(X : Float) : Float; external 'dmath';
9264: { Cumulative probability for standard normal distrib. }
9265: function PNorm(X : Float) : Float; external 'dmath';
9266: { Prob(|U| > X) for standard normal distrib. }
9267: function InvNorm(P : Float) : Float; external 'dmath';
9268: { Inverse of standard normal distribution }
9269: { -----
9270: Student's distribution
9271: ----- }
9272: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9273: { Density of Student distribution with Nu d.o.f. }
9274: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9275: { Cumulative probability for Student distrib. with Nu d.o.f. }
9276: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9277: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9278: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9279: { Inverse of Student's t-distribution function }
9280: { -----
9281: Khi-2 distribution
9282: ----- }
9283: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9284: { Density of Khi-2 distribution with Nu d.o.f. }
9285: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9286: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9287: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9288: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9289: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9290: { Inverse of Khi-2 distribution function }
9291: { -----
9292: Fisher-Snedecor distribution
9293: ----- }
9294: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9295: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9296: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9297: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9298: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9299: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9300: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9301: { Inverse of Snedecor's F-distribution function }
9302: { -----
9303: Beta distribution
9304: ----- }
9305: function DBeta(A, B, X : Float) : Float; external 'dmath';
9306: { Density of Beta distribution with parameters A and B }
9307: function FBeta(A, B, X : Float) : Float; external 'dmath';
9308: { Cumulative probability for Beta distrib. with param. A and B }
9309: { -----
9310: Gamma distribution
9311: ----- }
9312: function DGamma(A, B, X : Float) : Float; external 'dmath';
9313: { Density of Gamma distribution with parameters A and B }
9314: function FGamma(A, B, X : Float) : Float; external 'dmath';
9315: { Cumulative probability for Gamma distrib. with param. A and B }
9316: { -----
9317: Expression evaluation
9318: ----- }
9319: function InitEval : Integer; external 'dmath';
9320: { Initializes built-in functions and returns their number }
9321: function Eval(ExpressionString : String) : Float; external 'dmath';
9322: { Evaluates an expression at run-time }
9323: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9324: { Assigns a value to a variable }
9325: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9326: { Adds a function to the parser }
9327: { -----
9328: Matrices and linear equations
9329: ----- }
9330: procedure GaussJordan(A : TMatrix;
9331: Lb, Ubl, Ub2 : Integer;
9332: var Det : Float); external 'dmath';
9333: { Transforms a matrix according to the Gauss-Jordan method }
9334: procedure LinEq(A : TMatrix;
9335: B : TVector;
9336: Lb, Ub : Integer;
9337: var Det : Float); external 'dmath';
9338: { Solves a linear system according to the Gauss-Jordan method }
9339: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9340: { Cholesky factorization of a positive definite symmetric matrix }
9341: procedure LU_Decompo(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9342: { LU decomposition }
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9343: procedure LU_Solve(A      : TMatrix;
9344:                      B      : TVector;
9345:                      Lb, Ub : Integer;
9346:                      X      : TVector); external 'dmath';
9347: { Solution of linear system from LU decomposition }
9348: procedure QR_Decom(A      : TMatrix;
9349:                      Lb, Ubl, Ub2 : Integer;
9350:                      R      : TMatrix); external 'dmath';
9351: { QR decomposition }
9352: procedure QR_Solve(Q, R      : TMatrix;
9353:                      B      : TVector;
9354:                      Lb, Ubl, Ub2 : Integer;
9355:                      X      : TVector); external 'dmath';
9356: { Solution of linear system from QR decomposition }
9357: procedure SV_Decom(A      : TMatrix;
9358:                      Lb, Ubl, Ub2 : Integer;
9359:                      S      : TVector;
9360:                      V      : TMatrix); external 'dmath';
9361: { Singular value decomposition }
9362: procedure SV_SetZero(S      : TVector;
9363:                         Lb, Ub : Integer;
9364:                         Tol   : Float); external 'dmath';
9365: { Set lowest singular values to zero }
9366: procedure SV_Solve(U      : TMatrix;
9367:                      S      : TVector;
9368:                      V      : TMatrix;
9369:                      B      : TVector;
9370:                      Lb, Ubl, Ub2 : Integer;
9371:                      X      : TVector); external 'dmath';
9372: { Solution of linear system from SVD }
9373: procedure SV_Approx(U      : TMatrix;
9374:                      S      : TVector;
9375:                      V      : TMatrix;
9376:                      Lb, Ubl, Ub2 : Integer;
9377:                      A      : TMatrix); external 'dmath';
9378: { Matrix approximation from SVD }
9379: procedure EigenVals(A      : TMatrix;
9380:                        Lb, Ub : Integer;
9381:                        Lambda : TCompVector); external 'dmath';
9382: { Eigenvalues of a general square matrix }
9383: procedure EigenVect(A      : TMatrix;
9384:                        Lb, Ub : Integer;
9385:                        Lambda : TCompVector;
9386:                        V      : TMatrix); external 'dmath';
9387: { Eigenvalues and eigenvectors of a general square matrix }
9388: procedure EigenSym(A      : TMatrix;
9389:                        Lb, Ub : Integer;
9390:                        Lambda : TVector;
9391:                        V      : TMatrix); external 'dmath';
9392: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9393: procedure Jacobi(A      : TMatrix;
9394:                      Lb, Ub, MaxIter : Integer;
9395:                      Tol   : Float;
9396:                      Lambda : TVector;
9397:                      V      : TMatrix); external 'dmath';
9398: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9399: { -----
9400: Optimization
9401: ----- }
9402: procedure MinBrack(Func      : TFunc;
9403:                       var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9404: { Brackets a minimum of a function }
9405: procedure GoldSearch(Func      : TFunc;
9406:                          A, B      : Float;
9407:                          MaxIter : Integer;
9408:                          Tol   : Float;
9409:                          var Xmin, Ymin : Float); external 'dmath';
9410: { Minimization of a function of one variable (golden search) }
9411: procedure LinMin(Func      : TFuncNVar;
9412:                      X, DeltaX : TVector;
9413:                      Lb, Ub : Integer;
9414:                      var R      : Float;
9415:                      MaxIter : Integer;
9416:                      Tol   : Float;
9417:                      var F_min : Float); external 'dmath';
9418: { Minimization of a function of several variables along a line }
9419: procedure Newton(Func      : TFuncNVar;
9420:                      HessGrad : THessGrad;
9421:                      X       : TVector;
9422:                      Lb, Ub : Integer;
9423:                      MaxIter : Integer;
9424:                      Tol   : Float;
9425:                      var F_min : Float;
9426:                      G       : TVector;
9427:                      H_inv  : TMatrix;
9428:                      var Det : Float); external 'dmath';
9429: { Minimization of a function of several variables (Newton's method) }
9430: procedure SaveNewton(FileName : string); external 'dmath';
9431: { Save Newton iterations in a file }

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9432: procedure Marquardt(Func      : TFuncNVar;
9433:                         HessGrad  : THessGrad;
9434:                         X         : TVector;
9435:                         Lb, Ub    : Integer;
9436:                         MaxIter   : Integer;
9437:                         Tol       : Float;
9438:                         var F_min : Float;
9439:                         G         : TVector;
9440:                         H_inv    : TMMatrix;
9441:                         var Det   : Float); external 'dmath';
9442: { Minimization of a function of several variables (Marquardt's method) }
9443: procedure SaveMarquardt(FileName : string); external 'dmath';
9444: { Save Marquardt iterations in a file }
9445: procedure BFGS(Func      : TFuncNVar;
9446:                     Gradient  : TGradient;
9447:                     X         : TVector;
9448:                     Lb, Ub    : Integer;
9449:                     MaxIter   : Integer;
9450:                     Tol       : Float;
9451:                     var F_min : Float;
9452:                     G         : TVector;
9453:                     H_inv    : TMMatrix); external 'dmath';
9454: { Minimization of a function of several variables (BFGS method) }
9455: procedure SaveBFGS(FileName : string); external 'dmath';
9456: { Save BFGS iterations in a file }
9457: procedure Simplex(Func      : TFuncNVar;
9458:                         X         : TVector;
9459:                         Lb, Ub    : Integer;
9460:                         MaxIter   : Integer;
9461:                         Tol       : Float;
9462:                         var F_min : Float); external 'dmath';
9463: { Minimization of a function of several variables (Simplex) }
9464: procedure SaveSimplex(FileName : string); external 'dmath';
9465: { Save Simplex iterations in a file }
9466: { -----
9467: Nonlinear equations
9468: ----- }
9469: procedure RootBrack(Func      : TFunc;
9470:                         var X, Y, FX, FY : Float); external 'dmath';
9471: { Brackets a root of function Func between X and Y }
9472: procedure Bisect(Func      : TFunc;
9473:                         var X, Y : Float;
9474:                         MaxIter : Integer;
9475:                         Tol     : Float;
9476:                         var F   : Float); external 'dmath';
9477: { Bisection method }
9478: procedure Secant(Func      : TFunc;
9479:                         var X, Y : Float;
9480:                         MaxIter : Integer;
9481:                         Tol     : Float;
9482:                         var F   : Float); external 'dmath';
9483: { Secant method }
9484: procedure NewtEq(Func, Deriv : TFunc;
9485:                         var X      : Float;
9486:                         MaxIter  : Integer;
9487:                         Tol      : Float;
9488:                         var F      : Float); external 'dmath';
9489: { Newton-Raphson method for a single nonlinear equation }
9490: procedure NewtEqs(Equations : TEquations;
9491:                         Jacobian : TJacobian;
9492:                         X, F     : TVector;
9493:                         Lb, Ub   : Integer;
9494:                         MaxIter  : Integer;
9495:                         Tol      : Float); external 'dmath';
9496: { Newton-Raphson method for a system of nonlinear equations }
9497: procedure Broyden(Equations : TEquations;
9498:                         X, F     : TVector;
9499:                         Lb, Ub   : Integer;
9500:                         MaxIter  : Integer;
9501:                         Tol      : Float); external 'dmath';
9502: { Broyden's method for a system of nonlinear equations }
9503: { -----
9504: Polynomials and rational fractions
9505: ----- }
9506: function Poly(X : Float;
9507:                   Coef : TVector;
9508:                   Deg  : Integer) : Float; external 'dmath';
9509: { Evaluates a polynomial }
9510: function RFrac(X : Float;
9511:                   Coef : TVector;
9512:                   Degl, Deg2 : Integer) : Float; external 'dmath';
9513: { Evaluates a rational fraction }
9514: function RootPol1(A, B : Float;
9515:                         var X : Float) : Integer; external 'dmath';
9516: { Solves the linear equation A + B * X = 0 }
9517: function RootPol2(Coef : TVector;
9518:                         Z : TCompVector) : Integer; external 'dmath';
9519: { Solves a quadratic equation }
9520: function RootPol3(Coef : TVector;

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9521:           Z : TCompVector) : Integer; external 'dmath';
9522: { Solves a cubic equation }
9523: function RootPol4(Coef : TVector;
9524:           Z : TCompVector) : Integer; external 'dmath';
9525: { Solves a quartic equation }
9526: function RootPol(Coef : TVector;
9527:           Deg : Integer;
9528:           Z : TCompVector) : Integer; external 'dmath';
9529: { Solves a polynomial equation }
9530: function SetRealRoots(Deg : Integer;
9531:           Z : TCompVector;
9532:           Tol : Float) : Integer; external 'dmath';
9533: { Set the imaginary part of a root to zero }
9534: procedure SortRoots(Deg : Integer;
9535:           Z : TCompVector); external 'dmath';
9536: { Sorts the roots of a polynomial }
9537: { -----
9538:   Numerical integration and differential equations
9539: -----
9540: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9541: { Integration by trapezoidal rule }
9542: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9543: { Integral from A to B }
9544: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9545: { Integral from 0 to B }
9546: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9547: { Convolution product at time T }
9548: procedure ConvTrap(Func1, Func2 : TFunc; T, Y : TVector; N : Integer); external 'dmath';
9549: { Convolution by trapezoidal rule }
9550: procedure RKF45(F : TDiffEqs;
9551:           Neqn : Integer;
9552:           Y, Yp : TVector;
9553:           var T : Float;
9554:           Tout, RelErr, AbsErr : Float;
9555:           var Flag : Integer); external 'dmath';
9556: { Integration of a system of differential equations }
9557: { -----
9558:   Fast Fourier Transform
9559: -----
9560: procedure FFT(NumSamples : Integer;
9561:           InArray, OutArray : TCompVector); external 'dmath';
9562: { Fast Fourier Transform }
9563: procedure IFFT(NumSamples : Integer;
9564:           InArray, OutArray : TCompVector); external 'dmath';
9565: { Inverse Fast Fourier Transform }
9566: procedure FFT_Integer(NumSamples : Integer;
9567:           RealIn, ImagIn : TIntVector;
9568:           OutArray : TCompVector); external 'dmath';
9569: { Fast Fourier Transform for integer data }
9570: procedure FFT_Integer_Cleanup; external 'dmath';
9571: { Clear memory after a call to FFT_Integer }
9572: procedure CalcFrequency(NumSamples,
9573:           FrequencyIndex : Integer;
9574:           InArray : TCompVector;
9575:           var FFT : Complex); external 'dmath';
9576: { Direct computation of Fourier transform }
9577: { -----
9578:   Random numbers
9579: -----
9580: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9581: { Select generator }
9582: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9583: { Initialize generator }
9584: function IRanGen : RNG_IntType; external 'dmath';
9585: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9586: function IRanGen31 : RNG_IntType; external 'dmath';
9587: { 31-bit random integer in [0 .. 2^31 - 1] }
9588: function RanGen1 : Float; external 'dmath';
9589: { 32-bit random real in [0,1] }
9590: function RanGen2 : Float; external 'dmath';
9591: { 32-bit random real in [0,1) }
9592: function RanGen3 : Float; external 'dmath';
9593: { 32-bit random real in (0,1) }
9594: function RanGen53 : Float; external 'dmath';
9595: { 53-bit random real in [0,1) }
9596: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9597: { Initializes the 'Multiply with carry' random number generator }
9598: function IRanMWC : RNG_IntType; external 'dmath';
9599: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9600: procedure InitMT(Seed : RNG_IntType); external 'dmath';
9601: { Initializes Mersenne Twister generator with a seed }
9602: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9603:           KeyLength : Word); external 'dmath';
9604: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9605: function IRanMT : RNG_IntType; external 'dmath';
9606: { Random integer from MT generator }
9607: procedure InitUVAGByString(KeyPhrase : string); external 'dmath';
9608: { Initializes the UVAG generator with a string }
9609: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';

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9610: { Initializes the UVAG generator with an integer }
9611: function IRanUVAG : RNG_IntType; external 'dmath';
9612: { Random integer from UVAG generator }
9613: function RanGaussStd : Float; external 'dmath';
9614: { Random number from standard normal distribution }
9615: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9616: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9617: procedure RanMult(M : TVector; L : TMatrix;
9618:                      Lb, Ub : Integer;
9619:                      X : TVector); external 'dmath';
9620: { Random vector from multinormal distribution (correlated) }
9621: procedure RanMultIndep(M, S : TVector;
9622:                           Lb, Ub : Integer;
9623:                           X : TVector); external 'dmath';
9624: { Random vector from multinormal distribution (uncorrelated) }
9625: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9626: { Initializes Metropolis-Hastings parameters }
9627: procedure GetMHParams(var NCycles, MaxSim, SavedSim:Integer); external 'dmath';
9628: { Returns Metropolis-Hastings parameters }
9629: procedure Hastings(Func : TFuncNVar;
9630:                        T : Float;
9631:                        X : TVector;
9632:                        V : TMatrix;
9633:                        Lb, Ub : Integer;
9634:                        Xmat : TMatrix;
9635:                        X_min : TVector;
9636:                        var F_min : Float); external 'dmath';
9637: { Simulation of a probability density function by Metropolis-Hastings }
9638: procedure InitSAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9639: { Initializes Simulated Annealing parameters }
9640: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9641: { Initializes log file }
9642: procedure SimAnn(Func : TFuncNVar;
9643:                      X, Xmin, Xmax : TVector;
9644:                      Lb, Ub : Integer;
9645:                      var F_min : Float); external 'dmath';
9646: { Minimization of a function of several var. by simulated annealing }
9647: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9648: { Initializes Genetic Algorithm parameters }
9649: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9650: { Initializes log file }
9651: procedure GenAlg(Func : TFuncNVar;
9652:                      X, Xmin, Xmax : TVector;
9653:                      Lb, Ub : Integer;
9654:                      var F_min : Float); external 'dmath';
9655: { Minimization of a function of several var. by genetic algorithm }
9656: { -----
9657:   Statistics
9658:   -----
9659: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9660: { Mean of sample X }
9661: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9662: { Minimum of sample X }
9663: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9664: { Maximum of sample X }
9665: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9666: { Median of sample X }
9667: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9668: { Standard deviation estimated from sample X }
9669: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9670: { Standard deviation of population }
9671: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9672: { Correlation coefficient }
9673: function Skewness(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9674: { Skewness of sample X }
9675: function Kurtosis(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9676: { Kurtosis of sample X }
9677: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9678: { Quick sort (ascending order) }
9679: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9680: { Quick sort (descending order) }
9681: procedure Interval(X1, X2 : Float;
9682:                      MinDiv, MaxDiv : Integer;
9683:                      var Min, Max, Step : Float); external 'dmath';
9684: { Determines an interval for a set of values }
9685: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9686:                       var XMin, XMax, XStep : Float); external 'dmath';
9687: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9688: procedure StudIndep(N1, N2 : Integer;
9689:                       M1, M2, S1, S2 : Float;
9690:                       var T : Float;
9691:                       var DOF : Integer); external 'dmath';
9692: { Student t-test for independent samples }
9693: procedure StudPaired(X, Y : TVector;
9694:                        Lb, Ub : Integer;
9695:                        var T : Float;
9696:                        var DOF : Integer); external 'dmath';
9697: { Student t-test for paired samples }
9698: procedure AnOVal(Ns : Integer);

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9699:           N          : TIntVector;
9700:           M, S       : TVector;
9701:           var V_f, V_r, F : Float;
9702:           var DoF_f, DoF_r : Integer); external 'dmath';
9703: { One-way analysis of variance }
9704: procedure AnOva2(NA, NB, Nobs : Integer;
9705:                      M, S       : TMatrix;
9706:                      V, F       : TVector;
9707:                      DoF      : TIntVector); external 'dmath';
9708: { Two-way analysis of variance }
9709: procedure Snedecor(N1, N2      : Integer;
9710:                      S1, S2     : Float;
9711:                      var F      : Float;
9712:                      var DoF1, DoF2 : Integer); external 'dmath';
9713: { Snedecor's F-test (comparison of two variances) }
9714: procedure Bartlett(Ns      : Integer;
9715:                      N          : TIntVector;
9716:                      S          : TVector;
9717:                      var Khi2   : Float;
9718:                      var DoF    : Integer); external 'dmath';
9719: { Bartlett's test (comparison of several variances) }
9720: procedure Mann_Whitney(N1, N2      : Integer;
9721:                      X1, X2     : TVector;
9722:                      var U, Eps : Float); external 'dmath';
9723: { Mann-Whitney test }
9724: procedure Wilcoxon(X, Y      : TVector;
9725:                      Lb, Ub     : Integer;
9726:                      var Ndiff  : Integer;
9727:                      var T, Eps : Float); external 'dmath';
9728: { Wilcoxon test }
9729: procedure Kruskal_Wallis(Ns      : Integer;
9730:                           N          : TIntVector;
9731:                           X          : TMatrix;
9732:                           var H      : Float;
9733:                           var DoF   : Integer); external 'dmath';
9734: { Kruskal-Wallis test }
9735: procedure Khi2_Conform(N_cls   : Integer;
9736:                           N_estim  : Integer;
9737:                           Obs       : TIntVector;
9738:                           Calc      : TVector;
9739:                           var Khi2   : Float;
9740:                           var DoF    : Integer); external 'dmath';
9741: { Khi-2 test for conformity }
9742: procedure Khi2_Indep(N_lin   : Integer;
9743:                         N_col    : Integer;
9744:                         Obs      : TIntMatrix;
9745:                         var Khi2  : Float;
9746:                         var DoF   : Integer); external 'dmath';
9747: { Khi-2 test for independence }
9748: procedure Woolf_Conform(N_cls : Integer;
9749:                           N_estim : Integer;
9750:                           Obs     : TIntVector;
9751:                           Calc    : TVector;
9752:                           var G    : Float;
9753:                           var DoF  : Integer); external 'dmath';
9754: { Woolf's test for conformity }
9755: procedure Woolf_Indep(N_lin : Integer;
9756:                           N_col   : Integer;
9757:                           Obs     : TIntMatrix;
9758:                           var G    : Float;
9759:                           var DoF  : Integer); external 'dmath';
9760: { Woolf's test for independence }
9761: procedure DimStatClassVector(var C : TStatClassVector;
9762:                               Ub      : Integer); external 'dmath';
9763: { Allocates an array of statistical classes: C[0..Ub] }
9764: procedure Distrib(X      : TVector;
9765:                      Lb, Ub   : Integer;
9766:                      A, B, H : Float;
9767:                      C      : TStatClassVector); external 'dmath';
9768: { Distributes an array X[Lb..Ub] into statistical classes }
9769: { -----
9770:  Linear / polynomial regression
9771:  -----
9772: procedure LinFit(X, Y   : TVector;
9773:                      Lb, Ub : Integer;
9774:                      B      : TVector;
9775:                      V      : TMatrix); external 'dmath';
9776: { Linear regression : Y = B(0) + B(1) * X }
9777: procedure WLinFit(X, Y, S : TVector;
9778:                      Lb, Ub : Integer;
9779:                      B      : TVector;
9780:                      V      : TMatrix); external 'dmath';
9781: { Weighted linear regression : Y = B(0) + B(1) * X }
9782: procedure SVDLinFit(X, Y : TVector;
9783:                      Lb, Ub : Integer;
9784:                      SVDTol : Float;
9785:                      B      : TVector;
9786:                      V      : TMatrix); external 'dmath';
9787: { Unweighted linear regression by singular value decomposition }
```

```

9788: procedure WSVDLinFit(X, Y, S : TVector;
9789:                           Lb, Ub : Integer;
9790:                           SVDTol : Float;
9791:                           B : TVector;
9792:                           V : TMatrix); external 'dmath';
9793: { Weighted linear regression by singular value decomposition }
9794: procedure MulFit(X : TMatrix;
9795:                      Y : TVector;
9796:                      Lb, Ub, Nvar : Integer;
9797:                      ConsTerm : Boolean;
9798:                      B : TVector;
9799:                      V : TMatrix); external 'dmath';
9800: { Multiple linear regression by Gauss-Jordan method }
9801: procedure WMulFit(X : TMatrix;
9802:                      Y, S : TVector;
9803:                      Lb, Ub, Nvar : Integer;
9804:                      ConsTerm : Boolean;
9805:                      B : TVector;
9806:                      V : TMatrix); external 'dmath';
9807: { Weighted multiple linear regression by Gauss-Jordan method }
9808: procedure SVDFit(X : TMatrix;
9809:                      Y : TVector;
9810:                      Lb, Ub, Nvar : Integer;
9811:                      ConsTerm : Boolean;
9812:                      SVDTol : Float;
9813:                      B : TVector;
9814:                      V : TMatrix); external 'dmath';
9815: { Multiple linear regression by singular value decomposition }
9816: procedure WSVDFit(X : TMatrix;
9817:                      Y, S : TVector;
9818:                      Lb, Ub, Nvar : Integer;
9819:                      ConsTerm : Boolean;
9820:                      SVDTol : Float;
9821:                      B : TVector;
9822:                      V : TMatrix); external 'dmath';
9823: { Weighted multiple linear regression by singular value decomposition }
9824: procedure PolFit(X, Y : TVector;
9825:                      Lb, Ub, Deg : Integer;
9826:                      B : TVector;
9827:                      V : TMatrix); external 'dmath';
9828: { Polynomial regression by Gauss-Jordan method }
9829: procedure WPolFit(X, Y, S : TVector;
9830:                      Lb, Ub, Deg : Integer;
9831:                      B : TVector;
9832:                      V : TMatrix); external 'dmath';
9833: { Weighted polynomial regression by Gauss-Jordan method }
9834: procedure SVDPolFit(X, Y : TVector;
9835:                      Lb, Ub, Deg : Integer;
9836:                      SVDTol : Float;
9837:                      B : TVector;
9838:                      V : TMatrix); external 'dmath';
9839: { Unweighted polynomial regression by singular value decomposition }
9840: procedure WSVDPolFit(X, Y, S : TVector;
9841:                      Lb, Ub, Deg : Integer;
9842:                      SVDTol : Float;
9843:                      B : TVector;
9844:                      V : TMatrix); external 'dmath';
9845: { Weighted polynomial regression by singular value decomposition }
9846: procedure RegTest(Y, Ycalc : TVector;
9847:                      LbY, UbY : Integer;
9848:                      V : TMatrix;
9849:                      LbV, UbV : Integer;
9850:                      var Test : TRegTest); external 'dmath';
9851: { Test of unweighted regression }
9852: procedure WRegTest(Y, Ycalc, S : TVector;
9853:                      LbY, UbY : Integer;
9854:                      V : TMatrix;
9855:                      LbV, UbV : Integer;
9856:                      var Test : TRegTest); external 'dmath';
9857: { Test of weighted regression }
9858: { -----
9859:   Nonlinear regression
9860: -----
9861: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';
9862: { Sets the optimization algorithm for nonlinear regression }
9863: function GetOptAlgo : TOptAlgo; external 'dmath';
9864: { Returns the optimization algorithm }
9865: procedure SetMaxParam(N : Byte); external 'dmath';
9866: { Sets the maximum number of regression parameters for nonlinear regression }
9867: function GetMaxParam : Byte; external 'dmath';
9868: { Returns the maximum number of regression parameters for nonlinear regression }
9869: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9870: { Sets the bounds on the I-th regression parameter }
9871: procedure GetParamBounds(I : Byte; var ParamMin, ParamMax : Float); external 'dmath';
9872: { Returns the bounds on the I-th regression parameter }
9873: procedure NLFit(RegFunc : TRegFunc;
9874:                     DerivProc : TDervProc;
9875:                     X, Y : TVector;
9876:                     Lb, Ub : Integer;

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9877:           MaxIter : Integer;
9878:           Tol    : Float;
9879:           B      : TVector;
9880:           FirstPar,
9881:           LastPar : Integer;
9882:           V      : TMatrix); external 'dmath';
9883: { Unweighted nonlinear regression }
9884: procedure WNLFit(RegFunc : TRegFunc;
9885:                      DerivProc : TDerivProc;
9886:                      X, Y, S : TVector;
9887:                      Lb, Ub : Integer;
9888:                      MaxIter : Integer;
9889:                      Tol    : Float;
9890:                      B      : TVector;
9891:                      FirstPar,
9892:                      LastPar : Integer;
9893:                      V      : TMatrix); external 'dmath';
9894: { Weighted nonlinear regression }
9895: procedure SetMCFile(FileName : String); external 'dmath';
9896: { Set file for saving MCMC simulations }
9897: procedure SimFit(RegFunc : TRegFunc;
9898:                      X, Y : TVector;
9899:                      Lb, Ub : Integer;
9900:                      B      : TVector;
9901:                      FirstPar,
9902:                      LastPar : Integer;
9903:                      V      : TMatrix); external 'dmath';
9904: { Simulation of unweighted nonlinear regression by MCMC }
9905: procedure WSimFit(RegFunc : TRegFunc;
9906:                      X, Y, S : TVector;
9907:                      Lb, Ub : Integer;
9908:                      B      : TVector;
9909:                      FirstPar,
9910:                      LastPar : Integer;
9911:                      V      : TMatrix); external 'dmath';
9912: { Simulation of weighted nonlinear regression by MCMC }
9913: { -----
9914: Nonlinear regression models
9915: ----- }
9916: procedure FracFit(X, Y : TVector;
9917:                      Lb, Ub : Integer;
9918:                      Deg1, Deg2 : Integer;
9919:                      ConsTerm : Boolean;
9920:                      MaxIter : Integer;
9921:                      Tol    : Float;
9922:                      B      : TVector;
9923:                      V      : TMatrix); external 'dmath';
9924: { Unweighted fit of rational fraction }
9925: procedure WFracFit(X, Y, S : TVector;
9926:                      Lb, Ub : Integer;
9927:                      Deg1, Deg2 : Integer;
9928:                      ConsTerm : Boolean;
9929:                      MaxIter : Integer;
9930:                      Tol    : Float;
9931:                      B      : TVector;
9932:                      V      : TMatrix); external 'dmath';
9933: { Weighted fit of rational fraction }
9934:
9935: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9936: { Returns the value of the rational fraction at point X }
9937: procedure ExpFit(X, Y : TVector;
9938:                      Lb, Ub, Nexp : Integer;
9939:                      ConsTerm : Boolean;
9940:                      MaxIter : Integer;
9941:                      Tol    : Float;
9942:                      B      : TVector;
9943:                      V      : TMatrix); external 'dmath';
9944: { Unweighted fit of sum of exponentials }
9945: procedure WExpFit(X, Y, S : TVector;
9946:                      Lb, Ub, Nexp : Integer;
9947:                      ConsTerm : Boolean;
9948:                      MaxIter : Integer;
9949:                      Tol    : Float;
9950:                      B      : TVector;
9951:                      V      : TMatrix); external 'dmath';
9952: { Weighted fit of sum of exponentials }
9953: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9954: { Returns the value of the regression function at point X }
9955: procedure IncExpFit(X, Y : TVector;
9956:                      Lb, Ub : Integer;
9957:                      ConsTerm : Boolean;
9958:                      MaxIter : Integer;
9959:                      Tol    : Float;
9960:                      B      : TVector;
9961:                      V      : TMatrix); external 'dmath';
9962: { Unweighted fit of model of increasing exponential }
9963: procedure WIIncExpFit(X, Y, S : TVector;
9964:                      Lb, Ub : Integer;
9965:                      ConsTerm : Boolean;

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9966:           MaxIter : Integer;
9967:           Tol    : Float;
9968:           B      : TVector;
9969:           V      : TMatrix); external 'dmath';
9970: { Weighted fit of increasing exponential }
9971: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9972: { Returns the value of the regression function at point X }
9973: procedure ExpLinFit(X, Y : TVector;
9974:                         Lb, Ub : Integer;
9975:                         MaxIter : Integer;
9976:                         Tol    : Float;
9977:                         B      : TVector;
9978:                         V      : TMatrix); external 'dmath';
9979: { Unweighted fit of the "exponential + linear" model }
9980: procedure WExpLinFit(X, Y, S : TVector;
9981:                         Lb, Ub : Integer;
9982:                         MaxIter : Integer;
9983:                         Tol    : Float;
9984:                         B      : TVector;
9985:                         V      : TMatrix); external 'dmath';
9986: { Weighted fit of the "exponential + linear" model }
9987:
9988: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9989: { Returns the value of the regression function at point X }
9990: procedure MichFit(X, Y : TVector;
9991:                         Lb, Ub : Integer;
9992:                         MaxIter : Integer;
9993:                         Tol    : Float;
9994:                         B      : TVector;
9995:                         V      : TMatrix); external 'dmath';
9996: { Unweighted fit of Michaelis equation }
9997: procedure WMichFit(X, Y, S : TVector;
9998:                         Lb, Ub : Integer;
9999:                         MaxIter : Integer;
10000:                        Tol   : Float;
10001:                        B     : TVector;
10002:                        V     : TMatrix); external 'dmath';
10003: { Weighted fit of Michaelis equation }
10004: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10005: { Returns the value of the Michaelis equation at point X }
10006: procedure MintFit(X, Y : TVector;
10007:                         Lb, Ub : Integer;
10008:                         MintVar : TMintVar;
10009:                         Fit_S0 : Boolean;
10010:                        MaxIter : Integer;
10011:                        Tol   : Float;
10012:                        B     : TVector;
10013:                        V     : TMatrix); external 'dmath';
10014: { Unweighted fit of the integrated Michaelis equation }
10015: procedure WMintFit(X, Y, S : TVector;
10016:                         Lb, Ub : Integer;
10017:                         MintVar : TMintVar;
10018:                         Fit_S0 : Boolean;
10019:                         MaxIter : Integer;
10020:                         Tol   : Float;
10021:                         B     : TVector;
10022:                         V     : TMatrix); external 'dmath';
10023: { Weighted fit of the integrated Michaelis equation }
10024: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10025: { Returns the value of the integrated Michaelis equation at point X }
10026: procedure HillFit(X, Y : TVector;
10027:                         Lb, Ub : Integer;
10028:                         MaxIter : Integer;
10029:                         Tol   : Float;
10030:                         B     : TVector;
10031:                         V     : TMatrix); external 'dmath';
10032: { Unweighted fit of Hill equation }
10033: procedure WHillFit(X, Y, S : TVector;
10034:                         Lb, Ub : Integer;
10035:                         MaxIter : Integer;
10036:                         Tol   : Float;
10037:                         B     : TVector;
10038:                         V     : TMatrix); external 'dmath';
10039: { Weighted fit of Hill equation }
10040: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10041: { Returns the value of the Hill equation at point X }
10042: procedure LogiFit(X, Y : TVector;
10043:                         Lb, Ub : Integer;
10044:                         ConsTerm : Boolean;
10045:                         General : Boolean;
10046:                         MaxIter : Integer;
10047:                         Tol   : Float;
10048:                         B     : TVector;
10049:                         V     : TMatrix); external 'dmath';
10050: { Unweighted fit of logistic function }
10051: procedure WLogiFit(X, Y, S : TVector;
10052:                         Lb, Ub : Integer;
10053:                         ConsTerm : Boolean;
10054:                         General : Boolean;

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10055:           MaxIter : Integer;
10056:           Tol   : Float;
10057:           B     : TVector;
10058:           V     : TMatrix); external 'dmath';
10059: { Weighted fit of logistic function }
10060: function Logit_Func(X : Float; B : TVector) : Float; external 'dmath';
10061: { Returns the value of the logistic function at point X }
10062: procedure PKFit(X, Y : TVector;
10063:                      Lb, Ub : Integer;
10064:                      MaxIter : Integer;
10065:                      Tol   : Float;
10066:                      B     : TVector;
10067:                      V     : TMatrix); external 'dmath';
10068: { Unweighted fit of the acid-base titration curve }
10069: procedure WPKFit(X, Y, S : TVector;
10070:                      Lb, Ub : Integer;
10071:                      MaxIter : Integer;
10072:                      Tol   : Float;
10073:                      B     : TVector;
10074:                      V     : TMatrix); external 'dmath';
10075: { Weighted fit of the acid-base titration curve }
10076: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10077: { Returns the value of the acid-base titration function at point X }
10078: procedure PowFit(X, Y : TVector;
10079:                      Lb, Ub : Integer;
10080:                      MaxIter : Integer;
10081:                      Tol   : Float;
10082:                      B     : TVector;
10083:                      V     : TMatrix); external 'dmath';
10084: { Unweighted fit of power function }
10085: procedure WPowFit(X, Y, S : TVector;
10086:                      Lb, Ub : Integer;
10087:                      MaxIter : Integer;
10088:                      Tol   : Float;
10089:                      B     : TVector;
10090:                      V     : TMatrix); external 'dmath';
10091: { Weighted fit of power function }
10092:
10093: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10094: { Returns the value of the power function at point X }
10095: procedure GammaFit(X, Y : TVector;
10096:                      Lb, Ub : Integer;
10097:                      MaxIter : Integer;
10098:                      Tol   : Float;
10099:                      B     : TVector;
10100:                     V     : TMatrix); external 'dmath';
10101: { Unweighted fit of gamma distribution function }
10102: procedure WGammaFit(X, Y, S : TVector;
10103:                      Lb, Ub : Integer;
10104:                      MaxIter : Integer;
10105:                      Tol   : Float;
10106:                      B     : TVector;
10107:                     V     : TMatrix); external 'dmath';
10108: { Weighted fit of gamma distribution function }
10109: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10110: { Returns the value of the gamma distribution function at point X }
10111: { -----
10112: Principal component analysis
10113: ----- }
10114: procedure VecMean(X : TMatrix;
10115:                      Lb, Ub, Nvar : Integer;
10116:                      M     : TVector); external 'dmath';
10117: { Computes the mean vector M from matrix X }
10118: procedure VecSD(X : TMatrix;
10119:                      Lb, Ub, Nvar : Integer;
10120:                      M, S    : TVector); external 'dmath';
10121: { Computes the vector of standard deviations S from matrix X }
10122: procedure MatVarCov(X : TMatrix;
10123:                      Lb, Ub, Nvar : Integer;
10124:                      M     : TVector;
10125:                     V     : TMatrix); external 'dmath';
10126: { Computes the variance-covariance matrix V from matrix X }
10127: procedure MatCorrel(V : TMatrix;
10128:                      Nvar : Integer;
10129:                      R     : TMatrix); external 'dmath';
10130: { Computes the correlation matrix R from the var-cov matrix V }
10131: procedure PCA(R : TMatrix;
10132:                      Nvar : Integer;
10133:                      Lambda : TVector;
10134:                      C, Rc : TMatrix); external 'dmath';
10135: { Performs a principal component analysis of the correlation matrix R }
10136: procedure ScaleVar(X : TMatrix;
10137:                      Lb, Ub, Nvar : Integer;
10138:                      M, S    : TVector;
10139:                     Z     : TMatrix); external 'dmath';
10140: { Scales a set of variables by subtracting means and dividing by SD's }
10141: procedure PrinFac(Z : TMatrix;
10142:                      Lb, Ub, Nvar : Integer;
10143:                      C, F     : TMatrix); external 'dmath';

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10144: { Computes principal factors }
10145: { -----
10146:   Strings
10147: ----- }
10148: function LTrim(S : String) : String; external 'dmath';
10149: { Removes leading blanks }
10150: function RTrim(S : String) : String; external 'dmath';
10151: { Removes trailing blanks }
10152: function Trim(S : String) : String; external 'dmath';
10153: { Removes leading and trailing blanks }
10154: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10155: { Returns a string made of character C repeated N times }
10156: function RFill(S : String; L : Byte) : String; external 'dmath';
10157: { Completes string S with trailing blanks for a total length L }
10158: function LFill(S : String; L : Byte) : String; external 'dmath';
10159: { Completes string S with leading blanks for a total length L }
10160: function CFill(S : String; L : Byte) : String; external 'dmath';
10161: { Centers string S on a total length L }
10162: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10163: { Replaces in string S all the occurrences of C1 by C2 }
10164: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10165: { Extracts a field from a string }
10166: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10167: { Parses a string into its constitutive fields }
10168: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10169: { Sets the numeric format }
10170: function FloatToStr(X : Float) : String; external 'dmath';
10171: { Converts a real to a string according to the numeric format }
10172: function IntToStr(N : LongInt) : String; external 'dmath';
10173: { Converts an integer to a string }
10174: function CompStr(Z : Complex) : String; external 'dmath';
10175: { Converts a complex number to a string }
10176: {$IFDEF DELPHI}
10177: function StrDec(S : String) : String; external 'dmath';
10178: { Set decimal separator to the symbol defined in SysUtils }
10179: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10180: { Test if a string represents a number and returns it in X }
10181: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10182: { Reads a floating point number from an Edit control }
10183: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10184: { Writes a floating point number in a text file }
10185: {$ENDIF}
10186: { -----
10187:   BGI / Delphi graphics
10188: ----- }
10189: function InitGraphics
10190: {$IFDEF DELPHI}
10191: (Width, Height : Integer) : Boolean;
10192: {$ELSE}
10193: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10194: { Enters graphic mode }
10195: procedure SetWindow({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}
10196:                         X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10197: { Sets the graphic window }
10198: procedure SetOxScale(Scale           : TScale;
10199:                         OxBin, OxBMax, OxBStep : Float); external 'dmath';
10200: { Sets the scale on the Ox axis }
10201: procedure SetOyScale(Scale           : TScale;
10202:                         OyMin, OyMax, OyStep : Float); external 'dmath';
10203: { Sets the scale on the Oy axis }
10204: procedure GetOxScale(var Scale           : TScale;
10205:                         var OxBin, OxBMax, OxBStep : Float); external 'dmath';
10206: { Returns the scale on the Ox axis }
10207: procedure GetOyScale(var Scale           : TScale;
10208:                         var OyMin, OyMax, OyStep : Float); external 'dmath';
10209: { Returns the scale on the Oy axis }
10210: procedure SetGraphTitle>Title : String}; external 'dmath'; { Sets the title for the graph }
10211: procedure SetOxTitle>Title : String}; external 'dmath'; { Sets the title for the Ox axis }
10212: procedure SetOyTitle>Title : String}; external 'dmath'; { Sets the title for the Oy axis }
10213: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10214: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10215: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10216: {$IFDEF DELPHI}
10217: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10218: { Sets the font for the main graph title }
10219: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10220: { Sets the font for the Ox axis (title and labels) }
10221: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10222: { Sets the font for the Oy axis (title and labels) }
10223: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10224: { Sets the font for the legends }
10225: procedure SetClipping(Clip : Boolean); external 'dmath';
10226: { Determines whether drawings are clipped at the current viewport
10227:   boundaries, according to the value of the Boolean parameter Clip }
10228: {$ENDIF}
10229: procedure PlotOxAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10230: { Plots the horizontal axis }
10231: procedure PlotOyAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10232: { Plots the vertical axis }

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10233: procedure PlotGrid({$IFDEF DELPHI}Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10234: { Plots a grid on the graph }
10235: procedure WriteGraphTitle({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10236: { Writes the title of the graph }
10237: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10238: { Sets the maximum number of curves and re-initializes their parameters }
10239: procedure SetPointParam
10240: {$IFDEF DELPHI}
10241: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10242: {$ELSE}
10243: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10244: { Sets the point parameters for curve # CurvIndex }
10245: procedure SetLineParam
10246: {$IFDEF DELPHI}
10247: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10248: {$ELSE}
10249: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10250: { Sets the line parameters for curve # CurvIndex }
10251: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10252: { Sets the legend for curve # CurvIndex }
10253: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10254: { Sets the step for curve # CurvIndex }
10255: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10256: procedure GetPointParam
10257: {$IFDEF DELPHI}
10258: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10259: {$ELSE}
10260: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10261: { Returns the point parameters for curve # CurvIndex }
10262: procedure GetLineParam
10263: {$IFDEF DELPHI}
10264: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10265: {$ELSE}
10266: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10267: { Returns the line parameters for curve # CurvIndex }
10268: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10269: { Returns the legend for curve # CurvIndex }
10270: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10271: { Returns the step for curve # CurvIndex }
10272: {$IFDEF DELPHI}
10273: procedure PlotPoint(Canvas : TCanvas;
10274: X, Y : Float; CurvIndex : Integer); external 'dmath';
10275: {$ELSE}
10276: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10277: {$ENDIF}
10278: { Plots a point on the screen }
10279: procedure PlotCurve({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10280: X, Y : TVector;
10281: Lb, Ub, CurvIndex : Integer); external 'dmath';
10282: { Plots a curve }
10283: procedure PlotCurveWithErrorBars({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10284: X, Y, S : TVector;
10285: Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10286: { Plots a curve with error bars }
10287: procedure PlotFunc({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10288: Func : TFunc;
10289: Xmin, Xmax : Float;
10290: {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10291: CurvIndex : Integer); external 'dmath';
10292: { Plots a function }
10293: procedure WriteLegend({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10294: NCurv : Integer;
10295: ShowPoints, ShowLines : Boolean); external 'dmath';
10296: { Writes the legends for the plotted curves }
10297: procedure ConRec({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10298: Nx, Ny, Nc : Integer;
10299: X, Y, Z : TVector;
10300: F : TMatrix); external 'dmath';
10301: { Contour plot }
10302: function Xpixel(X : Float):Integer; external 'dmath'; { Converts user abscissa X to screen coordinate }
10303: function Ypixel(Y : Float):Integer; external 'dmath'; { Converts user ordinate Y to screen coordinate }
10304: function Xuser(X : Integer):Float; external 'dmath'; { Converts screen coordinate X to user abscissa }
10305: function Yuser(Y : Integer):Float; external 'dmath'; { Converts screen coordinate Y to user ordinate }
10306: {$IFNDEF DELPHI}
10307: procedure LeaveGraphics; external 'dmath';
10308: { Quits graphic mode }
10309: {$ENDIF}
10310: { -----
10311: ----- LaTeX graphics ----- }
10312: ----- }
10313: function TeX_InitGraphics(FileName : String; PgWidth, PgHeight : Integer;
10314: Header : Boolean) : Boolean; external 'dmath';
10315: { Initializes the LaTeX file }
10316: procedure TeX_SetWindow(X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10317: { Sets the graphic window }
10318: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10319: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10320: { Sets the scale on the Ox axis }
10321: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';

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10322: { Sets the scale on the Oy axis }
10323: procedure TeX_SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10324: procedure TeX_SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10325: procedure TeX_SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10326: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10327: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10328: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10329: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph }
10330: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10331: { Sets the maximum number of curves and re-initializes their parameters }
10332: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10333: { Sets the point parameters for curve # CurvIndex }
10334: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10335:                               Width : Float; Smooth : Boolean); external 'dmath';
10336: { Sets the line parameters for curve # CurvIndex }
10337: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10338: { Sets the legend for curve # CurvIndex }
10339: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10340: { Sets the step for curve # CurvIndex }
10341: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10342: { Plots a curve }
10343: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10344:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10345: { Plots a curve with error bars }
10346: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10347:                           Npt : Integer; CurvIndex : Integer); external 'dmath';
10348: { Plots a function }
10349: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10350: { Writes the legends for the plotted curves }
10351: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10352: { Contour plot }
10353: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10354: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10355:
10356: //*****unit uPSI_SynPdf;
10357: Function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10358: Function _DateToString( ADate : TDateTime ) : TPdfDate
10359: Function _PDFDateToDate( const AText : TPdfDate ) : TDateTime
10360: Function PdfRect( Left, Top, Right, Bottom : Single ) : TPdfRect;
10361: Function PdfRectL( const Box : TPdfBox ) : TPdfRect;
10362: Function PdfBox( Left, Top, Width, Height : Single ) : TPdfBox
10363: //Function _GetCharCount( Text : PAnsiChar ) : integer
10364: //Procedure L2R( W : PWideChar; L : integer )
10365: Function PdfCoord( MM : single ) : integer
10366: Function CurrentPrinterPageSize : TPDFPaperSize
10367: Function CurrentPrinterRes : TPoint
10368: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10369: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10370: Procedure GDICommentLink( MetaHandle : HDC; const aBookmarkName : RawUTF8; const aRect : TRect )
10371: Const ('Usp10','String 'usp10.dll
10372: AddTypeS('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10373: 'fCharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10374: AddTypeS('TScriptState_set', 'set of TScriptState_enum
10375: //*****
10376:
10377: procedure SIRegister_PMrand(CL: TPSPascalCompiler); //ParkMiller
10378: begin
10379:   Procedure PMrandomize( I : word )
10380:   Function PMrandom : longint
10381:   Function Rrand : extended
10382:   Function Irand( N : word ) : word
10383:   Function Brand( P : extended ) : boolean
10384:   Function Nrand : extended
10385: end;
10386:
10387: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10388: begin
10389:   Function Endian( x : LongWord ) : LongWord
10390:   Function Endian64( x : Int64 ) : Int64
10391:   Function spRol( x : LongWord; y : Byte ) : LongWord
10392:   Function spRor( x : LongWord; y : Byte ) : LongWord
10393:   Function Ror64( x : Int64; y : Byte ) : Int64
10394: end;
10395:
10396: procedure SIRegister_MapReader(CL: TPSPascalCompiler);
10397: begin
10398:   Procedure ClearModules
10399:   Procedure ReadMapFile( Fname : string )
10400:   Function AddressInfo( Address : dword ) : string
10401: end;
10402:
10403: procedure SIRegister_LibTar(CL: TPSPascalCompiler);
10404: begin
10405:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOwn'
10406:   +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWri'
10407:   +'teByOther, tpExecuteByOther )
10408:   TTarPermissions', 'set of TTarPermission
10409:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10410:   +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader;

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10411: TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10412: TTarModes', 'set of TTarMode
10413: TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDa'
10414: +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10415: +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING;'
10416: +'ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INT'
10417: +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10418: SIRegister_TTarArchive(CL);
10419: SIRegister_TTarWriter(CL);
10420: Function PermissionString( Permissions : TTarPermissions ) : STRING
10421: Function ConvertFilename( Filename : STRING ) : STRING
10422: Function FileTimeGMT( FileName : STRING ) : TDateTime;
10423: Function FileTimeGMT1( SearchRec : TSearchRec ) : TDateTime;
10424: Procedure ClearDirRec( var DirRec : TTarDirRec )
10425: end;
10426:
10427:
10428: //*****unit uPSTI_TlHelp32;
10429: procedure SIRegister_TlHelp32(CL: TPSPPascalCompiler);
10430: begin
10431: Const ('MAX_MODULE_NAME32','LongInt'( 255 );
10432: Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD ) : THandle
10433: Const ('TH32CS_SNAPHEAPLIST','LongWord( $00000001 );
10434: Const ('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002 );
10435: Const ('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004 );
10436: Const ('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008 );
10437: Const ('TH32CS_INHERIT','LongWord').SetUInt( $80000000 );
10438: tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10439: AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10440: AddTypeS('THeapList32', 'tagHEAPLIST32
10441: Const ('HF32_DEFAULT','LongInt'( 1 );
10442: Const ('HF32_SHARED','LongInt'( 2 );
10443: Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10444: Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10445: AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAd'
10446: +'dress : WORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10447: +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10448: AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10449: AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10450: Const ('LF32_FIXED','LongWord').SetUInt( $00000001 );
10451: Const ('LF32_FREE','LongWord').SetUInt( $00000002 );
10452: Const ('LF32_MOVEABLE','LongWord').SetUInt( $00000004 );
10453: Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD ) : BOOL
10454: Function Heap32Next( var lphe : THeapEntry32 ) : BOOL
10455: DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10456: AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10457: +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10458: +'aPri : Longint; dwFlags : DWORD; end
10459: AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10460: AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10461: Function Thread32First( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10462: Function Thread32Next( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10463: end;
10464: Const ('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042 );
10465: Const ('EW_REBOOTSYSTEM','LongWord( $0043 );
10466: Const ('EW_EXITANDEXECAPP','LongWord( $0044 );
10467: Const ('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD ( $80000000 ) );
10468: Const ('EWX_LOGOFF','LongInt'( 0 );
10469: Const ('EWX_SHUTDOWN','LongInt'( 1 );
10470: Const ('EWX_REBOOT','LongInt'( 2 );
10471: Const ('EWX_FORCE','LongInt'( 4 );
10472: Const ('EWX_POWEROFF','LongInt'( 8 );
10473: Const ('EWX_FORCEIFHUNG','LongWord').SetUInt( $10 );
10474: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint
10475: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word
10476: Function GET_MOUSEKEY_LPARAM( const lParam : LongInt ) : Word
10477: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word
10478: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word
10479: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word
10480: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10481: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
10482: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
10483: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word
10484: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10485: Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
10486: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
10487: Function GetDesktopWindow : HWND
10488: Function GetParent( hWnd : HWND ) : HWND
10489: Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND
10490: Function GetTopWindow( hWnd : HWND ) : HWND
10491: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND
10492: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND
10493: //Delphi DFM
10494: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10495: Function SaveStrings2DFMFile( AStrings : TStrings; const Afile : string ) : integer
10496: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10497: function GetHighlightersFilter(AHighlighters: TStringList): string;
10498: function GetHighlighterFromFileExt(AHighlighters: TStringList; Extension: string): TSynCustomHighlighter;
10499: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL

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10500: Function OpenIcon( hWnd : HWND ) : BOOL
10501: Function CloseWindow( hWnd : HWND ) : BOOL
10502: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL
10503: Function SetWindowPos(hWnd: HWND;hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UINT) : BOOL
10504: Function IsWindowVisible( hWnd : HWND ) : BOOL
10505: Function IsIconic( hWnd : HWND ) : BOOL
10506: Function AnyPopup : BOOL
10507: Function BringWindowToFront( hWnd : HWND ) : BOOL
10508: Function IsZoomed( hWnd : HWND ) : BOOL
10509: Function IsWindow( hWnd : HWND ) : BOOL
10510: Function IsMenu( hMenu : HMENU ) : BOOL
10511: Function IsChild( hWndParent, hWnd : HWND ) : BOOL
10512: Function DestroyWindow( hWnd : HWND ) : BOOL
10513: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL
10514: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL
10515: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL
10516: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL
10517: Function IsWindowUnicode( hWnd : HWND ) : BOOL
10518: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL
10519: Function IsWindowEnabled( hWnd : HWND ) : BOOL
10520:
10521: procedure SIRегистre_IDECmdLine(CL: TPSPPascalCompiler);
10522: begin
10523:   const ('ShowSetupDialogOptLong', 'String '--setup
10524:   PrimaryConfPathOptLong', 'String '--primary-config-path=
10525:   PrimaryConfPathOptShort', 'String '--pcp=
10526:   SecondaryConfPathOptLong', 'String '--secondary-config-path=
10527:   SecondaryConfPathOptShort', 'String '--scp=
10528:   NoSplashScreenOptLong', 'String '--no-splash-screen
10529:   NoSplashScreenOptShort', 'String '--nsc
10530:   StartedByStartLazarusOpt', 'String '--started-by-startlazarus
10531:   SkipLastProjectOpt', 'String '--skip-last-project
10532:   DebugLogOpt', 'String '--debug-log=
10533:   DebugLogOptEnable', 'String '--debug-enable=
10534:   LanguageOpt', 'String '--language=
10535:   LazarusDirOpt', 'String '--lazarusdir=
10536:   Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10537:   Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean ) : string
10538:   Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings ) : string
10539:   Function IsHelpRequested : Boolean
10540:   Function IsVersionRequested : boolean
10541:   Function GetLanguageSpecified : string
10542:   Function ParamIsOption( ParamIndex : integer; const Option : string ) : boolean
10543:   Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10544:   Procedure ParseNoGuiCmdLineParams
10545:   Function ExtractCmdLineFilenames : TStrings
10546: end;
10547:
10548:
10549: procedure SIRегистre_LazFileUtils(CL: TPSPPascalCompiler);
10550: begin
10551:   Function CompareFilenames( const Filenam1, Filenam2 : string ) : integer
10552:   Function CompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string ) : integer
10553:   Function CompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean ) : integer;
10554:   Function CompareFileExt1( const Filenam, Ext : string ) : integer;
10555:   Function CompareFilenameStarts( const Filenam1, Filenam2 : string ) : integer
10556:   Function CompareFilenames(Filenam1:PChar;Len1:integer; Filenam2:PChar;Len2:integer):integer
10557:   Function CompareFilenamesP( Filenam1, Filenam2 : PChar; IgnoreCase : boolean ) : integer
10558:   Function DirPathExists( DirectoryName : string ) : boolean
10559:   Function DirectoryIsWritable( const DirectoryName : string ) : boolean
10560:   Function ExtractFileNameOnly( const Afilename : string ) : string
10561:   Function FilenamIsAbsolute( const Thefilename : string ) : boolean
10562:   Function FilenamIsWinAbsolute( const Thefilename : string ) : boolean
10563:   Function FilenamIsUnixAbsolute( const Thefilename : string ) : boolean
10564:   Function ForceDirectory(DirectoryName : string) : boolean
10565:   Procedure CheckIfFileIsExecutable( const Afilename : string )
10566:   Procedure CheckIfFileIsSymlink( const Afilename : string )
10567:   Function FileIsText( const Afilename : string ) : boolean
10568:   Function FileIsText2( const Afilename : string; out FileReadable : boolean ) : boolean
10569:   Function FilenamIsTrimmed( const Thefilename : string ) : boolean
10570:   Function FilenamIsTrimmed2( StartPos : PChar; NameLen : integer ) : boolean
10571:   Function TrimFilename( const Afilename : string ) : string
10572:   Function ResolveDots( const Afilename : string ) : string
10573:   Procedure ForcePathDelims( var FileName : string )
10574:   Function GetForcedPathDelims( const FileName : string ) : String
10575:   Function CleanAndExpandFilename( const Filenam : string ) : string
10576:   Function CleanAndExpandDirectory( const Filenam : string ) : string
10577:   Function TrimAndExpandFilename( const Filenam : string; const BaseDir : string ) : string
10578:   Function TrimAndExpandDirectory( const Filenam : string; const BaseDir : string ) : string
10579:   Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
    AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String) : Boolean
10580:   Function CreateRelativePath( const Filenam,BaseDirectory:string; UsePointDirectory:boolean;
    AlwaysRequireSharedBaseFolder : Boolean) : string
10581:   Function FileIsInPath( const Filenam, Path : string ) : boolean
10582:   Function AppendPathDelim( const Path : string ) : string
10583:   Function ChompPathDelim( const Path : string ) : string
10584:   Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
10585:   Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string ) : string
10586:   Function MinimizeSearchPath( const SearchPath : string ) : string

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10587: Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
10588: (*Function FileExistsUTF8( const FileName : string) : boolean
10589: Function FileAgeUTF8( const FileName : string) : Longint
10590: Function DirectoryExistsUTF8( const Directory : string) : Boolean
10591: Function ExpandFileNameUTF8( const FileName : string; BaseDir : string) : string
10592: Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10593: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
10594: Procedure FindCloseUTF8( var F : TSearchrec)
10595: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
10596: Function FileGetAttrUTF8( const FileName : String) : Longint
10597: Function FileSetAttrUTF8( const Filename : String; Attr : longint) : Longint
10598: Function DeleteFileUTF8( const FileName : String) : Boolean
10599: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
10600: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
10601: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
10602: Function GetCurrentDirUTF8 : String
10603: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
10604: Function CreateDirUTF8( const NewDir : String) : Boolean
10605: Function RemoveDirUTF8( const Dir : String) : Boolean
10606: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
10607: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
10608: Function FileCreateUTF8( const FileName : string) : THandle;
10609: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
10610: Function FileCreateUTF82( const FileName : String; ShareMode : Integer; Rights : Cardinal) : THandle;
10611: Function FileSizeUtf8( const Filename : string) : int64
10612: Function GetFileDescription( const AFilename : string) : string
10613: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
10614: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean) : string
10615: Function GetTempFileNameUTF8( const Dir, Prefix : String) : String*)
10616: Function IsUNCPath( const Path : String) : Boolean
10617: Function ExtractUNCVolume( const Path : String) : String
10618: Function ExtractFileRoot( FileName : String) : String
10619: Function GetDarwinSystemFilename( Filename : string) : string
10620: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean)
10621: Function StrToCmdlineParam( const Param : string) : string
10622: Function MergeCmdLineParams( ParamList : TStrings) : string
10623: Procedure InvalidateFileStateCache( const Filename : string)
10624: Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10625: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
10626: Function FindAllDocs(const Root, extmask: string): TStringlist;
10627: Function ReadfileToString( const Filename : string) : string
10628: procedure Incl(var X: longint; N: Longint);
10629:
10630: type
10631:   TCopyFileFlag = ( cffOverwriteFile,
10632:     cffCreateDestDirectory, cffPreserveTime );
10633:   TCopyFileFlags = set of TCopyFileFlag;*
10634:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10635:   TCopyFileFlags', 'set of TCopyFileFlag
10636:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
10637: end;
10638:
10639: procedure SIRегистre_lazMasks(CL: TPPascalCompiler);
10640: begin
10641:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10642:   SIRegister_TMask(CL);
10643:   SIRegister_TParseStringList(CL);
10644:   SIRegister_TMaskList(CL);
10645:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Boolean
10646:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Bool;
10647:   Function MatchesMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10648:   Function MatchesWindowsMaskList(const FileName,Mask:String;Separat:Char;const CaseSensitive:Bool):Bool;
10649: end;
10650:
10651: procedure SIRegister_JvShellHook(CL: TPPascalCompiler);
10652: begin
10653:   //PShellHookInfo', '^TShellHookInfo // will not work
10654:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10655:   SHELLHOOKINFO', 'TShellHookInfo
10656:   LPSHELLHOOKINFO', 'PShellHookInfo
10657:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10658:   SIRegister_TJvShellHook(CL);
10659:   Function InitJvShellHooks : Boolean
10660:   Procedure UnInitJvShellHooks
10661: end;
10662:
10663: procedure SIRegister_JvExControls(CL: TPPascalCompiler);
10664: begin
10665:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10666:   '+, dcHasSel, dcWantTab, dcNative )
10667:   TDlgCodes', 'set of TDlgCode
10668:   'dcWantMessage', ' dcWantAllKeys);
10669:   SIRegister_IJvExControl(CL);
10670:   SIRegister_IJvDenySubClassing(CL);
10671:   SIRegister_TStructPtrMessage(CL);
10672:   Procedure SetDotNetBarColors( FocusedColor, UnfocusedColor : TColor)
10673:   Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10674:   Procedure DrawDotNetBar1( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10675:   Procedure HandleDotNetHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);

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10676: Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10677: Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10678: Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10679: Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10680: Function GetFocusedControl( AControl : TControl ) : TWinControl
10681: Function DlgCoToDlgCodes( Value : Longint ) : TDlgCodes
10682: Function DlgCodesToDlc( Value : TDlgCodes ) : Longint
10683: Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor )
10684: Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10685: SIRegister_TJvExControl(CL);
10686: SIRegister_TJvExWinControl(CL);
10687: SIRegister_TJvExCustomControl(CL);
10688: SIRegister_TJvExGraphicControl(CL);
10689: SIRegister_TJvExHintWindow(CL);
10690: SIRegister_TJvExPubGraphicControl(CL);
10691: end;
10692: (*-----*)
10693: procedure SIRegister_EncdDecd(CL: TPSPascalCompiler);
10694: begin
10695:   Procedure EncodeStream( Input, Output : TStream )
10696:   Procedure DecodeStream( Input, Output : TStream )
10697:   Function EncodeString1( const Input : string ) : string
10698:   Function DecodeString1( const Input : string ) : string
10700: end;
10701: (*-----*)
10702: procedure SIRegister_SockAppReg(CL: TPSPascalCompiler);
10703: begin
10704:   SIRegister_TWebAppRegInfo(CL);
10705:   SIRegister_TWebAppRegList(CL);
10706:   Procedure GetRegisteredWebApps( AList : TWebAppRegList )
10707:   Procedure RegisterWebApp( const AFileName, AProgID : string )
10709:   Procedure UnregisterWebApp( const AProgID : string )
10710:   Function FindRegisteredWebApp( const AProgID : string ) : string
10711:   Function CreateRegistry( InitializeNewFile : Boolean ) : TCustomIniFile
10712:   'sUDPPort','String 'UDPPort
10713: end;
10714: (*-----*)
10715: procedure SIRegister_PJEnvVars(CL: TPSPascalCompiler);
10716: begin
10717:   // TStringDynArray', 'array of string
10718:   Function GetEnvVarValue( const VarName : string ) : string
10719:   Function SetEnvVarValue( const VarName, VarValue : string ) : Integer
10720:   Function DeleteEnvVar( const VarName : string ) : Integer
10721:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
10722:   BufSize:Int):Int;
10723:   Function ExpandEnvVars( const Str : string ) : string
10724:   Function GetAllEnvVars( const Vars : TStrings ) : Integer
10725:   Procedure GetAllEnvVarNames( const Names : TStrings );
10726:   Function GetAllEnvVarNames1 : TStringDynArray;
10727:   Function EnvBlockSize : Integer
10728:   TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject )
10729:   SIRegister_TPJEnvVarsEnumerator(CL);
10730:   SIRegister_TPJEnvVars(CL);
10731:   FindClass('TOBJECT'), 'EPJEnvVars
10732:   FindClass('TOBJECT'), 'EPJEnvVars
10733:   //Procedure Register
10734: end;
10735: (*-----*)
10736: procedure SIRegister_PJConsoleApp(CL: TPSPascalCompiler);
10737: begin
10738:   'cOneSecInMS','LongInt'( 1000 );
10739:   //''cDefTimeSlice','LongInt'( 50 );
10740:   //''cDefMaxExecTime',' cOneMinInMS';
10741:   'cAppErrorMask','LongInt'( 1 shl 29 );
10742:   Function IsApplicationError( const ErrCode : LongWord ) : Boolean
10743:   TPJConsoleAppPriority', '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10744:   TPJConsoleColors', 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10745:   Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor ):TPJConsoleColors;
10746:   Function MakeConsoleColors1( const AForeground, ABackground : TColor ) : TPJConsoleColors;
10747:   Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor ) : TPJConsoleColors;
10748:   Function Makesize( const ACX, ACY : LongInt ) : TSize
10749:   SIRegister_TPJCustomConsoleApp(CL);
10750:   SIRegister_TPJConsoleApp(CL);
10751: end;
10752: (*-----*)
10753: procedure SIRegister_ip_misc(CL: TPSPascalCompiler);
10754: begin
10755:   INVALID_IP_ADDRESS','LongWord').SetUInt( $ffffffff );
10756:   t_encoding', '( uuencode, base64, mime )
10757:   Function internet_date( date : TDateTime ) : string
10758:   Function lookup_hostname( const hostname : string ) : longint
10759:   Function my_hostname : string
10760:   Function my_ip_address : longint
10761:   Function ip2string( ip_address : longint ) : string
10762:   Function resolve_hostname( ip : longint ) : string
10763:   Function address_from( const s : string; count : integer ) : string

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10764: Function encode_base64( data : TStream) : TStringList
10765: Function decode_base64( source : TStringList) : TMemoryStream
10766: Function posn( const s, t : string; count : integer) : integer
10767: Function poscn( c : char; const s : string; n : integer) : integer
10768: Function filename_of( const s : string) : string
10769: //Function trim( const s : string) : string
10770: //Procedure setlength( var s : string; l : byte)
10771: Function TimeZoneBias : longint
10772: Function eight2seven_quoteprint( const s : string) : string
10773: Function eight2seven_german( const s : string) : string
10774: Function seven2eight_quoteprint( const s : string) : string end;
10775: type in_addr', 'record s_bytes : array[1..4] of byte; end;
10776: Function socketerror : cint
10777: Function fpsocket( domain : cint; xtype : cint; protocol : cint) : cint
10778: Function fprecv( s : cint; buf : __pointer; len : size_t; flags : cint) : ssize_t
10779: Function fpsend( s : cint; msg : __pointer; len : size_t; flags : cint) : ssize_t
10780: //Function fpbind( s : cint; addrx : psockaddr; addrlen : tsocklen) : cint
10781: Function fplisten( s : cint; backlog : cint) : cint
10782: //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint) : cint
10783: //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen) : cint
10784: //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen) : cint
10785: Function NetAddrToStr( Entry : in_addr) : String
10786: Function HostAddrToStr( Entry : in_addr) : String
10787: Function StrToHostAddr( IP : String) : in_addr
10788: Function StrToNetAddr( IP : String) : in_addr
10789: SOL_SOCKET', 'LongWord').SetUInt( $ffff);
10790: cint8', 'shortint
10791: cuint8', 'byte
10792: cchar', 'cint8
10793: cschar', 'cint8
10794: cuchar', 'cuint8
10795: cint16', 'smallint
10796: cuint16', 'word
10797: cshort', 'cint16
10798: csshort', 'cint16
10799: cushort', 'cuint16
10800: cint32', 'longint
10801: cuint32', 'longword
10802: cint', 'cint32
10803: csint', 'cint32
10804: cuint', 'cuint32
10805: csigned', 'cint
10806: cunsigned', 'cuint
10807: cint64', 'int64
10808: clonglong', 'cint64
10809: cslonglong', 'cint64
10810: cbool', 'longbool
10811: cfloat', 'single
10812: cdouble', 'double
10813: clongdouble', 'extended
10814:
10815: procedure SIRегистre_uLkJSON(CL: TPSPascalCompiler);
10816: begin
10817:   TlkJSONTypes', '( jsBase, jsNumber, jsString, jsBoolean, jsNull, jsList, jsObject )
10818:   SIRегистre_TlkJSONdotnetclass(CL);
10819:   SIRегистre_TlkJSONbase(CL);
10820:   SIRегистre_TlkJSONnumber(CL);
10821:   SIRегистre_TlkJSONstring(CL);
10822:   SIRегистre_TlkJSONboolean(CL);
10823:   SIRегистre_TlkJSONnull(CL);
10824:   TlkJSONFuncEnum', 'Procedure ( ElName : string; Ele : TlkJSONba'
10825:   +'se; data : TObject; var Continue : Boolean)
10826:   SIRегистre_TlkJSONcustomlist(CL);
10827:   SIRегистre_TlkJSONlist(CL);
10828:   SIRегистre_TlkJSONobjectmethod(CL);
10829:   TlkHashItem', 'record hash : cardinal; index : Integer; end
10830:   TlkHashFunction', 'Function ( const ws : WideString ) : cardinal
10831:   SIRегистre_TlkHashTable(CL);
10832:   SIRегистre_TlkBalTree(CL);
10833:   SIRегистre_TlkJSONobject(CL);
10834:   SIRегистre_TlkJSON(CL);
10835:   SIRегистre_TlkJSONstreamed(CL);
10836:   Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer): string
10837: end;
10838:
10839: procedure SIRегистre_ZSysUtils(CL: TPSPascalCompiler);
10840: begin
10841:   TZListSortCompare', 'Function ( Item1, Item2 : TObject): Integer
10842:   SIRегистre_TZSortedList(CL);
10843:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10844:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10845:   //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer ) : Boolean
10846:   //Function MemLCompAansi( P1, P2 : PAnsiChar; Len : Integer ) : Boolean
10847:   Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10848:   Function StartsWith1( const Str, SubStr : RawByteString) : Boolean;
10849:   Function EndsWith1( const Str, SubStr : WideString) : Boolean;
10850:   Function EndsWith1( const Str, SubStr : RawByteString) : Boolean;
10851:   Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10852:   Function SQLStrToFloatDef1( Str : String; Def : Extended) : Extended;

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10853: Function SQLStrToFloat( const Str : AnsiString ) : Extended
10854: //Function BufferToStr( Buffer : PWideChar; Length : LongInt ) : string;
10855: //Function BufferToStr1( Buffer : PAansiChar; Length : LongInt ) : string;
10856: Function BufferToBytes( Buffer : TObject; Length : LongInt ) : TByteDynArray
10857: Function StrToBoolEx( Str : string ) : Boolean
10858: Function BoolToStrEx( Bool : Boolean ) : String
10859: Function IsIpAddr( const Str : string ) : Boolean
10860: Function zSplitString( const Str, Delimiters : string ) : TStrings
10861: Procedure PutSplitString( List : TStrings; const Str, Delimiters : string )
10862: Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string )
10863: Function ComposeString( List : TStrings; const Delimiter : string ) : string
10864: Function FloatToSQLStr( Value : Extended ) : string
10865: Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string )
10866: Function SplitStringEx( const Str, Delimiter : string ) : TStrings
10867: Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string )
10868: Function zBytesToStr( const Value : TByteDynArray ) : AnsiString
10869: Function zStrToBytes( const Value : AnsiString ) : TByteDynArray;
10870: Function StrToBytes1( const Value : UTF8String ) : TByteDynArray;
10871: Function StrToBytes2( const Value : RawByteString ) : TByteDynArray;
10872: Function StrToBytes3( const Value : WideString ) : TByteDynArray;
10873: Function StrToBytes4( const Value : UnicodeString ) : TByteDynArray;
10874: Function BytesToVar( const Value : TByteDynArray ) : Variant
10875: Function VarToBytes( const Value : Variant ) : TByteDynArray
10876: Function AnsiSQLDateToDateTime( const Value : string ) : TDateTime
10877: Function TimestampStrToDateTime( const Value : string ) : TDateTime
10878: Function DateToString( const Value : string ) : string
10879: Function EncodeCString( const Value : string ) : string
10880: Function DecodeCString( const Value : string ) : string
10881: Function zReplaceChar( const Source, Target : Char; const Str : string ) : string
10882: Function MemPas( Buffer : PChar; Length : LongInt ) : string
10883: Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10884: Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10885: Function FormatSQLVersion( const SQLVersion : Integer ) : String
10886: Function ZStrToFloat( Value : AnsiChar ) : Extended;
10887: Function ZStrToFloat1( Value : AnsiString ) : Extended;
10888: Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString );
10889: Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString );
10890: Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String );
10891: Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String );
10892: Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString );
10893: Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString );
10894: Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString );
10895: end;
10896:
10897: unit uPSI_ZEncoding;
10898: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word ) : RawByteString
10899: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word ) : String
10900: Function ZRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10901: Function ZUnicodeToRaw( const US : WideString; CP : Word ) : RawByteString
10902: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10903: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10904: Function ZConvertAnsiToUTF8( const Src : AnsiString ) : UTF8String
10905: Function ZConvertUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10906: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10907: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10908: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10909: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10910: Function ZConvertStringToRawWithAutoEncode(const Src:String;const StringCP,RawCP:Word):RawByteString;
10911: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word ) : String
10912: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10913: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP : Word ) : UTF8String
10914: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10915: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP : Word ) : AnsiString
10916: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10917: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word ) : String
10918: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word ) : String
10919: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word ) : WideString
10920: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word ) : WideString
10921: Function ZConvertStringToUnicodeWithAutoEncode( const Src : String; const StringCP : Word ) : WideString
10922: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10923: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10924: Function ZMoveAnsiToUTF8( const Src : AnsiString ) : UTF8String
10925: Function ZMoveUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10926: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10927: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10928: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10929: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10930: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10931: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10932: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word ) : String
10933: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10934: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10935: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word ) : WideString
10936: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word ) : RawByteString
10937: Function ZDefaultSystemCodePage : Word
10938: Function ZCompatibleCodePages( const CP1, CP2 : Word ) : Boolean
10939:

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10940:
10941: procedure SIRегистер_BoldComUtils(CL: TPSPascalCompiler);
10942: begin
10943:   ('RPC_C_AUTHN_LEVEL_DEFAULT', 'LongInt'( 0 );
10944:   ('RPC_C_AUTHN_LEVEL_NONE', 'LongInt'( 1 );
10945:   ('RPC_C_AUTHN_LEVEL_CONNECT', 'LongInt'( 2 );
10946:   ('RPC_C_AUTHN_LEVEL_CALL', 'LongInt'( 3 );
10947:   ('RPC_C_AUTHN_LEVEL_PKT', 'LongInt'( 4 );
10948:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY', 'LongInt'( 5 );
10949:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY', 'LongInt'( 6 );
10950:   {'alDefault', '1 RPC_C_AUTHN_LEVEL_DEFAULT';
10951:   ('alNone', '2 RPC_C_AUTHN_LEVEL_NONE';
10952:   ('alConnect', '3 RPC_C_AUTHN_LEVEL_CONNECT);
10953:   ('alCall', '4 RPC_C_AUTHN_LEVEL_CALL);
10954:   ('alPacket', '5 RPC_C_AUTHN_LEVEL_PKT);
10955:   ('alPacketIntegrity', '6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY);
10956:   ('alPacketPrivacy', '7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY);}
10957:   ('RPC_C_IMP_LEVEL_DEFAULT', 'LongInt'( 0 );
10958:   ('RPC_C_IMP_LEVEL_ANONYMOUS', 'LongInt'( 1 );
10959:   ('RPC_C_IMP_LEVEL_IDENTIFY', 'LongInt'( 2 );
10960:   ('RPC_C_IMP_LEVEL_IMPERSONATE', 'LongInt'( 3 );
10961:   ('RPC_C_IMP_LEVEL_DELEGATE', 'LongInt'( 4 );
10962:   {'ilDefault', '0 RPC_C_IMP_LEVEL_DEFAULT';
10963:   ('ilAnonymous', '1 RPC_C_IMP_LEVEL_ANONYMOUS);
10964:   ('ilIdentiry', '2 RPC_C_IMP_LEVEL_IDENTIFY);
10965:   ('ilImpersonate', '3 RPC_C_IMP_LEVEL_IMPERSONATE);
10966:   ('ilDelegate', '4 RPC_C_IMP_LEVEL_DELEGATE);}
10967:   ('EOAC_NONE', 'LongWord').SetUInt( $0 );
10968:   ('EOAC_DEFAULT', 'LongWord').SetUInt( $800 );
10969:   ('EOAC_MUTUAL_AUTH', 'LongWord').SetUInt( $1 );
10970:   ('EOAC_STATIC_CLOACKING', 'LongWord').SetUInt( $20 );
10971:   ('EOAC_DYNAMIC_CLOAKING', 'LongWord').SetUInt( $40 );
10972:   ('EOAC_ANY_AUTHORITY', 'LongWord').SetUInt( $80 );
10973:   ('RPC_C_AUTHN_WINNT', 'LongInt'( 10 );
10974:   ('RPC_C_AUTHNZ_NONE', 'LongInt'( 0 );
10975:   ('RPC_C_AUTHNZ_NAME', 'LongInt'( 1 );
10976:   ('RPC_C_AUTHNZ_DCE', 'LongInt'( 2 );
10977:   FindClass('TOBJECT'), 'EBoldCom
10978:   Function BoldVariantIsType( V : OleVariant; TypeCode : Integer ) : Boolean
10979:   Function BoldMemoryToVariant( const Buffer, BufSize : Integer ) : OleVariant
10980:   Function BoldStreamToVariant( Stream : TStream ) : OleVariant
10981:   Function BoldStringsToVariant( Strings : TStrings ) : OleVariant
10982:   Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer ) : Integer
10983:   Function BoldVariantToStream( V : OleVariant; Stream : TStream ) : Integer
10984:   Function BoldVariantArrayOfStringToStrings( V : OleVariant; Strings : TStrings ) : Integer
10985:   Function BoldVariantIsNamedValues( V : OleVariant ) : Boolean
10986:   Function BoldCreateNamedValues( const Names:array of string;const Values:array of OleVariant ):OleVariant;
10987:   Function BoldGetNamedValue( Data : OleVariant; const Name : string ) : OleVariant
10988:   Procedure BoldSetValue( Data : OleVariant; const Name : string; Value : OleVariant )
10989:   Function BoldCreateGUID : TGUID
10990:   Function BoldCreateComObject( const ClsId, IId : TGUID; out Obj : variant; out Res : HResult ) : Boolean
10991:   Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IId:TGUID;out Obj:variant;out
Res:HRES):Bool;
10992:   Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint )
10993:   Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown );
10994: end;
10995:
10996: (*-----*)
10997: procedure SIRегистер_BoldIsoDateTime(CL: TPSPascalCompiler);
10998: begin
10999:   Function ParseISODate( s : string ) : TDateTime
11000:   Function ParseISODateTime( s : string ) : TDateTime
11001:   Function ParseISOTime( str : string ) : TDateTime
11002: end;
11003:
11004: (*-----*)
11005: procedure SIRегистер_BoldGUIDUtils(CL: TPSPascalCompiler);
11006: begin
11007:   Function BoldCreateGUIDAsString( StripBrackets : Boolean ) : string
11008:   Function BoldCreateGUIDWithBracketsAsString : string
11009: end;
11010:
11011: procedure SIRегистер_BoldFileHandler(CL: TPSPascalCompiler);
11012: begin
11013:   FindClass('TOBJECT'), 'TBoldFileHandler
11014:   FindClass('TOBJECT'), 'TBoldDiskFileHandler
11015:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
11016:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList )
11017:   SIRегистер_TBoldFileHandler(CL);
11018:   SIRегистер_TBoldDiskFileHandler(CL);
11019:   Procedure BoldCloseAllFileHandlers
11020:   Procedure BoldRemoveUnchangedFilesFromEditor
11021:   Function BoldFileHandlerList : TBoldObjectArray
11022:   Function BoldFileHandlerForFile(path,FileName:String; ModuleType:TBoldModuleType;ShowInEditor:Bool;
OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
11023: end;
11024:
11025: procedure SIRегистер_BoldWinINet(CL: TPSPascalCompiler);
11026: begin

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11027:  PCharArr', 'array of PChar
11028:  Function BoldInternetOpen(Agent:String;
11029:    AccessType:integer;Proxy:string;ProxyByPass:String;Flags:integer):ptr;
11030:  Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags:cardinal):Pointer
11031:  Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumbOfBytesToRead:Card;var
11032:    NumberOfBytesRead:Card):LongBool;
11033:  Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
11034:  Function BoldHttpQueryInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
11035:    Cardinal; Reserved : Cardinal ) : LongBool
11036:  Function BoldInternetQueryDataAvailable( hFile : Pointer; var NumberOfBytesAvailable : Cardinal; flags :
11037:    Cardinal; Context : Cardinal ) : LongBool
11038:  Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
11039:    : PCharArr; Flags, Context : Cardinal) : Pointer
11040:  Function BoldHttpSendRequest(hRequest:Ptr;Headers:string;Optional:Ptr;OptionalLength:Cardinal): LongBool
11041:  Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:Ptr):DWORD
11042:  Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
11043:  Function BoldInternetConnect(hInet: HINTERNET;ServerName:string; nServerPort:INTERNET_PORT;
11044:    Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):HINTERNET
11045:  end;
11046:  procedure SIRегистre_BoldQueryUserDlg(CL: TPSPPascalCompiler);
11047: begin
11048:  TBoldQueryResult', '( qrYesAll, qrYes, qrNo, qrNoAll )
11049:  SIRегистre_TfrmBoldQueryUser(CL);
11050:  Function QueryUser( const Title, Query : string ) : TBoldQueryResult
11051:  end;
11052:  (*-----*)
11053:  procedure SIRегистre_BoldQueue(CL: TPSPPascalCompiler);
11054: begin
11055:  //('befIsInDisplayList',' BoldElementFlag0);
11056:  //('befStronglyDependedOfPrioritized',' BoldElementFlag1);
11057:  //('befFollowerSelected',' BoldElementFlag2);
11058:  FindClass('TOBJECT'),'TBoldQueue
11059:  FindClass('TOBJECT'),'TBoldQueueable
11060:  TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
11061:  SIRегистre_TBoldQueueable(CL);
11062:  SIRегистre_TBoldQueue(CL);
11063:  Function BoldQueueFinalized : Boolean
11064:  Function BoldInstalledQueue : TBoldQueue
11065: end;
11066:  procedure SIRегистre_Barcod(CL: TPSPPascalCompiler);
11067: begin
11068:  const mmPerInch,'Extended').setExtended( 25.4);
11069:  TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial,
11070:  + 'bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
11071:  + 'Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
11072:  + 'bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
11073:  + 'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
11074:  TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )
11075:  TShowTextPosition', '( stpTopLeft, stpTopRight, stpTopCenter, st
11076:  + 'pBottomLeft, stpBottomRight, stpBottomCenter )
11077:  TCheckSumMethod', '( csmNone, csmModulo10 )
11078:  SIRегистre_TAsBarcode(CL);
11079:  Function CheckSumModulo10( const data : string ) : string
11080:  Function ConvertMmToPixelsX( const Value : Double ) : Integer
11081:  Function ConvertMmToPixelsY( const Value : Double ) : Integer
11082:  Function ConvertInchToPixelsX( const Value : Double ) : Integer
11083:  Function ConvertInchToPixelsY( const Value : Double ) : Integer
11084: end;
11085:  procedure SIRегистre_Geometry(CL: TPSPPascalCompiler); //OpenGL
11086: begin
11087:  THomogeneousByteVector', 'array[0..3] of Byte
11088:  THomogeneousWordVector', 'array[0..3] of Word
11089:  THomogeneousIntVector', 'array[0..3] of Integer
11090:  THomogeneousFltVector', 'array[0..3] of single
11091:  THomogeneousDblVector', 'array[0..3] of double
11092:  THomogeneousExtVector', 'array[0..3] of extended
11093:  TAffineByteVector', 'array[0..2] of Byte
11094:  TAffineWordVector', 'array[0..2] of Word
11095:  TAffineIntVector', 'array[0..2] of Integer
11096:  TAffineFltVector', 'array[0..2] of single
11097:  TAffineDblVector', 'array[0..2] of double
11098:  TAffineExtVector', 'array[0..2] of extended
11099:  THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
11100:  THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
11101:  THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
11102:  THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11103:  THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11104:  THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11105:  TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11106:  TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11107:  TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11108:  TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11109:  TAffineDblMatrix', 'array[0..3] of TAffineDblVector

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11110: TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11111: TMatrix4b', 'THomogeneousByteMatrix
11112: TMatrix4w', 'THomogeneousWordMatrix
11113: TMatrix4i', 'THomogeneousIntMatrix
11114: TMatrix4f', 'THomogeneousFltMatrix
11115: TMatrix4d', 'THomogeneousDblMatrix
11116: TMatrix4e', 'THomogeneousExtMatrix
11117: TMatrix3b', 'TAffineByteMatrix
11118: TMatrix3w', 'TAffineWordMatrix
11119: TMatrix3i', 'TAffineIntMatrix
11120: TMatrix3f', 'TAffineFltMatrix
11121: TMatrix3d', 'TAffineDblMatrix
11122: TMatrix3e', 'TAffineExtMatrix
11123: //^PMatrix', '^TMatrix // will not work
11124: TMatrixGL', 'THomogeneousFltMatrix
11125: THomogeneousMatrix', 'THomogeneousFltMatrix
11126: TAffineMatrix', 'TAffineFltMatrix
11127: TQuaternion, 'record Vector : TVector4f; end
11128: TRectangle', 'record Left : integer; Top : integer; Width : integer;
11129: +'ger; Height : Integer; end
11130: TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11131: +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11132: +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11133: 'EPSILON', 'Extended').setExtended( 1E-100);
11134: 'EPSILON2', 'Extended').setExtended( 1E-50);
11135: Function VectorAddGL( V1, V2 : TVectorGL) : TVectorGL
11136: Function VectorAffineAdd( V1, V2 : TAffineVector) : TAffineVector
11137: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11138: Function VectorAffineDotProduct( V1, V2 : TAffineVector) : Single
11139: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single) : TAffineVector
11140: Function VectorAffineSubtract( V1, V2 : TAffineVector) : TAffineVector
11141: Function VectorAngle( V1, V2 : TAffineVector) : Single
11142: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single) : TVectorGL
11143: Function VectorCrossProduct( V1, V2 : TAffineVector) : TAffineVector
11144: Function VectorDotProduct( V1, V2 : TVectorGL) : Single
11145: Function VectorLength( V : array of Single) : Single
11146: Function VectorLerp( V1, V2 : TVectorGL; t : Single) : TVectorGL
11147: Procedure VectorNegate( V : array of Single)
11148: Function VectorNorm( V : array of Single) : Single
11149: Function VectorNormalize( V : array of Single) : Single
11150: Function VectorPerpendicular( V, N : TAffineVector) : TAffineVector
11151: Function VectorReflect( V, N : TAffineVector) : TAffineVector
11152: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single)
11153: Procedure VectorScale( V : array of Single; Factor : Single)
11154: Function VectorSubtractGL( V1, V2 : TVectorGL) : TVectorGL
11155: Function CreateRotationMatrixX( Sine, Cosine : Single) : TMatrixGL
11156: Function CreateRotationMatrixY( Sine, Cosine : Single) : TMatrixGL
11157: Function CreateRotationMatrixZ( Sine, Cosine : Single) : TMatrixGL
11158: Function CreateScaleMatrix( V : TAffineVector) : TMatrixGL
11159: Function CreateTranslationMatrix( V : TVectorGL) : TMatrixGL
11160: Procedure MatrixAdjoint( var M : TMatrixGL)
11161: Function MatrixAffineDeterminant( M : TAffineMatrix) : Single
11162: Procedure MatrixAffineTranspose( var M : TAffineMatrix)
11163: Function MatrixDeterminant( M : TMatrixGL) : Single
11164: Procedure MatrixInvert( var M : TMatrixGL)
11165: Function MatrixMultiply( M1, M2 : TMatrixGL) : TMatrixGL
11166: Procedure MatrixScale( var M : TMatrixGL; Factor : Single)
11167: Procedure MatrixTranspose( var M : TMatrixGL)
11168: Function QuaternionConjugate( Q : TQuaternion) : TQuaternion
11169: Function QuaternionFromPoints( V1, V2 : TAffineVector) : TQuaternion
11170: Function QuaternionMultiply( qL, qR : TQuaternion) : TQuaternion
11171: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11172: Function QuaternionToMatrix( Q : TQuaternion) : TMatrixGL
11173: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector)
11174: Function ConvertRotation( Angles : TAffineVector) : TVectorGL
11175: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single) : TMatrixGL
11176: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations) : Boolean
11177: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix) : TAffineVector
11178: Function VectorTransform( V : TVector4f; M : TMatrixGL) : TVector4f;
11179: Function VectorTransform1( V : TVector3f; M : TMatrixGL) : TVector3f;
11180: Function MakeAffineDblVector( V : array of Double) : TAffineDblVector
11181: Function MakeDblVector( V : array of Double) : THomogeneousDblVector
11182: Function MakeAffineVector( V : array of Single) : TAffineVector
11183: Function MakeQuaternion( Imag : array of Single; Real : Single) : TQuaternion
11184: Function MakeVector( V : array of Single) : TVectorGL
11185: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single) : Boolean
11186: Function VectorAffineDblToFlt( V : TAffineDblVector) : TAffineVector
11187: Function VectorDblToFlt( V : THomogeneousDblVector) : THomogeneousVector
11188: Function VectorAffineFltToDbl( V : TAffineVector) : TAffineDblVector
11189: Function VectorFltToDbl( V : TVectorGL) : THomogeneousDblVector
11190: Function ArcCosGL( X : Extended) : Extended
11191: Function ArcSinGL( X : Extended) : Extended
11192: Function ArcTan2GL( Y, X : Extended) : Extended
11193: Function CoTanGL( X : Extended) : Extended
11194: Function DegToRadGL( Degrees : Extended) : Extended
11195: Function RadToDegGL( Radians : Extended) : Extended
11196: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended)
11197: Function TanGL( X : Extended) : Extended
11198: Function Turn( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;

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11199: Function Turnl( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11200: Function Pitch( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11201: Function Pitchl( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11202: Function Roll( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11203: Function Rolll( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11204: end;
11205:
11206:
11207: procedure SIRegister_JclRegistry(CL: TPSPPascalCompiler);
11208: begin
11209:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint;
11210:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean;
11211:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean;
11212:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean;
11213:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean;
11214:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer;
11215:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer;
11216:   Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string;
11217:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string;
11218:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64;
11219:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64;
11220:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean );
11221:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer );
11222:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string );
11223:   Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 );
11224:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean;
11225:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean;
11226:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean;
11227:   Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean;
11228:   AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser'
11229:             + 'RunOnce, ekServiceRun, ekServiceRunOnce )');
11230:   AddClassN(FindClass('TOBJECT'), 'EJclRegistryError');
11231:   Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean;
11232:   Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean;
11233:   Function RegSaveList( const RootKey:HKEY;const Key:string; const ListName:string;const
11234: Items:TStrings):Bool;
11235:   Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean;
11236: end;
11237:
11238: procedure SIRegister_JclCOM(CL: TPSPPascalCompiler);
11239: begin
11240:   CLSID_StdComponentCategoriesMgr, 'TGUID '{0002E005-0000-0000-C000-000000000046};
11241:   CATID_SafeForInitialization', 'TGUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4};
11242:   CATID_SafeForScripting', 'TGUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4};
11243:   icMAX_CATEGORY_DESC_LEN', 'LongInt'( 128 );
11244:   FindClass('TOBJECT'), 'EInvalidParam';
11245:   Function IsDCOMInstalled : Boolean;
11246:   Function IsDCOMEnabled : Boolean;
11247:   Function GetDCOMVersion : string;
11248:   Function GetMDACVersion : string;
11249:   Function GetMDACVersion2 : string;
11250:   Function MarshalInterThreadInterfaceInVarArray( const iid:TIID;unk:IUnknown;var
11251: VarArray:OleVariant ):HResult;
11252:   Function MarshalInterProcessInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream ):HResult;
11253:   Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream ):HResult;
11254:   Function MarshalInterMachineInterfaceInVarArray( const iid:TIID;unk:IUnknown;var
11255: VarArray:OleVariant ):HResult;
11256:   Function CreateComponentCategory( const CatID : TGUID; const sDescription : string ) : HResult;
11257:   Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HResult;
11258:   Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HResult;
11259:   Function ResetIStreamToStart( Stream : IStream ) : Boolean;
11260:   Function SizeOfIStreamContents( Stream : IStream ) : LargeInt;
11261:   Function StreamToVariantArray( Stream : TStream ) : OleVariant;
11262:   Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream );
11263:   Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream );
11264: end;
11265:
11266:
11267: procedure SIRegister_JclUnitConv_mX2(CL: TPSPPascalCompiler);
11268: begin
11269:   Const ('CelsiusFreezingPoint','Extended').setExtended( 0.0 );
11270:   FahrenheitFreezingPoint,'Extended').setExtended( 32.0 );
11271:   KelvinFreezingPoint,'Extended').setExtended( 273.15 );
11272:   CelsiusAbsoluteZero,'Extended').setExtended( - 273.15 );
11273:   FahrenheitAbsoluteZero,'Extended').setExtended( - 459.67 );
11274:   KelvinAbsoluteZero,'Extended').setExtended( 0.0 );
11275:   DegPerCycle,'Extended').setExtended( 360.0 );
11276:   DegPerGrad,'Extended').setExtended( 0.9 );
11277:   DegPerRad','Extended').setExtended( 57.295779513082320876798154814105 );
11278:   GradPerCycle,'Extended').setExtended( 400.0 );
11279:   GradPerDeg','Extended').setExtended( 1.1111111111111111111111111111111 );
11280:   GradPerRad','Extended').setExtended( 63.661977236758134307553505349006 );
11281:   RadPerCycle,'Extended').setExtended( 6.283185307179586476925286766559 );
11282:   RadPerDeg','Extended').setExtended( 0.017453292519943295769236907684886 );

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11372: begin
11373:   Function CDEExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
11374:   Procedure CDCopyFile( const FileName, DestName : string)
11375:   Procedure CDMoveFile( const FileName, DestName : string)
11376:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11377:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11378:   Function CDGetTempDir : string
11379:   Function CDGetFileSize( FileName : string) : longint
11380:   Function GetFileTime( FileName : string) : longint
11381:   Function GetShortName( FileName : string) : string
11382:   Function GetFullName( FileName : string) : string
11383:   Function WinReboot : boolean
11384:   Function WinDir : String
11385:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11386:   Function RunFile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11387:   Function devExecutor : TdevExecutor
11388: end;
11389:
11390: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11391: begin
11392:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7);
11393:   Procedure Associate( Index : integer)
11394:   Procedure UnAssociate( Index : integer)
11395:   Function IsAssociated( Index : integer) : boolean
11396:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11397:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp, IcoNum: string)
11398:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11399:   procedure RefreshIcons;
11400:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11401:   function MergColor(Colors: Array of TColor): TColor;
11402:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11403:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11404:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11405:   function GetInverseColor(AColor: TColor): TColor;
11406:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11407:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer; ShadowColor: TColor);
11408:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11409:   Procedure GetSystemMenuFont(Font: TFont);
11410: end;
11411:
11412: //*****unit uPSI_JvHLPParser;*****
11413: function IsStringConstant(const St: string): Boolean;
11414: function IsIntConstant(const St: string): Boolean;
11415: function IsRealConstant(const St: string): Boolean;
11416: function IsIdentifier(const ID: string): Boolean;
11417: function GetStringValue(const St: string): string;
11418: procedure ParseString(const S: string; Ss: TStrings);
11419: function IsStringConstantW(const St: WideString): Boolean;
11420: function IsIntConstantW(const St: WideString): Boolean;
11421: function IsRealConstantW(const St: WideString): Boolean;
11422: function IsIdentifierW(const ID: WideString): Boolean;
11423: function GetStringValueW(const St: WideString): WideString;
11424: procedure ParseStringW(const S: WideString; Ss: TStrings);
11425:
11426:
11427: //*****unit uPSI_JclMapi;*****
11428:
11429: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWND ) : Boolean
11430: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWND ) : Boolean
11431: Function JclSimpleBringUpSendMailDialog(const ASubject, ABody:string;const AAttach:TFileName;AParentWND:HWND):Bool
11432: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11433: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11434:
11435: procedure SIRegister_IdNTLM(CL: TPSPPascalCompiler);
11436: begin
11437:   //'pdes_key_schedule', '^des_key_schedule // will not work
11438:   Function BuildType1Message( ADomain, AHost : String ) : String
11439:   Function BuildType3Message(ADomain,AHost,AUsername:WideString;APassword,ANonce:String):String
11440:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIaAuthenticationClass)
11441:   Function FindAuthClass( AuthName : String ) : TIaAuthenticationClass
11442:   GBase64CodeTable', 'string'ABCDEFHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
11443:   GXECCodeTable', 'string'+0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
11444:   GUUECodeTable', 'string`!#$%&'()*+,.-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_
11445: end;
11446:
11447: procedure SIRegister_WDosSocketUtils(CL: TPSPPascalCompiler);
11448: begin
11449:   ('IpAny', 'LongWord').SetUInt( $00000000 );
11450:   IpLoopBack', 'LongWord').SetUInt( $7F000001 );
11451:   IpBroadcast', 'LongWord').SetUInt( $FFFFFF );
11452:   IpNone', 'LongWord').SetUInt( $FFFF );
11453:   PortAny', 'LongWord( $0000 );
11454:   SocketMaxConnections', 'LongInt'( 5 );
11455:   TIpAddr', 'LongWord
11456:   TIpRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11457:   Function HostToNetLong( HostLong : LongWord ) : LongWord

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11458: Function HostToNetShort( HostShort : Word ) : Word
11459: Function NetToHostLong( NetLong : LongWord ) : LongWord
11460: Function NetToHostShort( NetShort : Word ) : Word
11461: Function StrToIp( Ip : string ) : TIpAddr
11462: Function IpToStr( Ip : TIpAddr ) : string
11463: end;
11464:
11465: (*-----*)
11466: procedure SIRегистер_ALSMTPClient(CL: TPSPascalCompiler);
11467: begin
11468:   TA1SmtpClientAuthType', '( AlsmtcpClientAuthNone, alsmtcpClientAuth'
11469:     +'hPlain, AlsmtcpClientAuthLogin, AlsmtcpClientAuthCramMD5, AlsmtcpClientAuthCr'
11470:     +'amShal, AlsmtcpClientAuthAutoSelect )
11471:   TA1SmtpClientAuthTypeSet', 'set of TA1SmtpClientAuthType
11472:   SIRегистер_TA1SmtpClient(CL);
11473: end;
11474:
11475: procedure SIRегистер_WDOSPlcUtils(CL: TPSPascalCompiler);
11476: begin
11477:   'TBitNo', 'Integer
11478:   TStByteNo', 'Integer
11479:   TStationNo', 'Integer
11480:   TInOutNo', 'Integer
11481:   TIO', '( EE, AA, NE, NA )
11482:   TBitSet', 'set of TBitNo
11483:   TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11484:   TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11485:   TBitAddr', 'LongInt
11486:   TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11487:   TByteAddr', 'SmallInt
11488:   TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11489:   Function BitAddr(aIo: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11490:   Function BusBitAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11491:   Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var
aBitNo:TBitNo);
11492:   Function BitAddrToStr( Value : TBitAddr ) : string
11493:   Function StrToBitAddr( const Value : string ) : TBitAddr
11494:   Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11495:   Function BusByteAddr(aIo:TIO:aInOutNo:TInOutNo;aStation:TStationNo;aStByteNo:TStByteNo):TByteAddr
11496:   Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11497:   Function ByteAddrToStr( Value : TByteAddr ) : string
11498:   Function StrToByteAddr( const Value : string ) : TByteAddr
11499:   Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11500:   Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )
11501:   Function InOutStateToStr( State : TInOutState ) : string
11502:   Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11503:   Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11504: end;
11505:
11506: procedure SIRегистер_WDOSTimers(CL: TPSPascalCompiler);
11507: begin
11508:   TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048,
11509:     +'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11510:   DpmiPmVector', 'Int64
11511:   'DInterval','LongInt'( 1000 );
11512:   // 'DEnabled','Boolean')BoolToStr( True );
11513:   'DIntFreq','string' if64
11514:   // 'DMessages','Boolean if64';
11515:   SIRегистер_TwdxCustomTimer(CL);
11516:   SIRегистер_TwdxTimer(CL);
11517:   SIRегистер_TwdxRtcTimer(CL);
11518:   SIRегистер_TCustomIntTimer(CL);
11519:   SIRегистер_TIntTimer(CL);
11520:   SIRегистер_TRtcIntTimer(CL);
11521:   Function RealNow : TDateTime
11522:   Function MsToDateTime( Millisecond : LongInt ) : TDateTime
11523:   Function DateTimeToMs( Time : TDateTime ) : LongInt
11524: end;
11525:
11526: procedure SIRегистер_IdSysLogMessage(CL: TPSPascalCompiler);
11527: begin
11528:   TIdSyslogPRI', 'Integer
11529:   TIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11530:     +'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11531:     +'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11532:     +'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11533:     +'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11534:   TIdSyslogSeverity', '(slEmergency,slAlert,slCritical,slError,slWarning,slNotice,slInformational,slDebug)
11535:   SIRегистер_TIdSysLogMsgPart(CL);
11536:   SIRегистер_TIdSysLogMessage(CL);
11537:   Function FacilityToString( AFac : TIdSyslogFacility ) : string
11538:   Function SeverityToString( ASec : TIdSyslogSeverity ) : string
11539:   Function NoToSeverity( ASev : Word ) : TIdSyslogSeverity
11540:   Function logSeverityToNo( ASev : TIdSyslogSeverity ) : Word
11541:   Function NoToFacility( AFac : Word ) : TIdSyslogFacility
11542:   Function logFacilityToNo( AFac : TIdSyslogFacility ) : Word
11543: end;
11544:
11545: procedure SIRегистер_TextUtils(CL: TPSPascalCompiler);

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11546: begin
11547:   'UWhitespace','String '(?:\s*)
11548:   Function StripSpaces( const AText : string ) : string
11549:   Function CharCount( const AText : string; Ch : Char ) : Integer
11550:   Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11551:   Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11552: end;
11553:
11554:
11555: procedure SIRегистер_ExtPascalUtils(CL: TPSPPascalCompiler);
11556: begin
11557:   ExtPascalVersion','String '0.9.8
11558:   AddTypes('TBrowser', '(', brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11559:   + 'Opera, brKonqueror, brMobileSafari )
11560:   AddTypes('TCSSUnit', '(', cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11561:   AddTypes('TExtProcedure', 'Procedure
11562:   Function DetermineBrowser( const UserAgentStr : string ) : TBrower
11563:   Function ExtExtract(const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool):bool;
11564:   Function ExtExplode( Delim : char; const S : string; Separator : char ) : TStringList
11565:   Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11566:   Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11567:   Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11568:   Function StrToJS( const S : string; UseBR : boolean ) : string
11569:   Function CaseOf( const S : string; const Cases : array of string ) : integer
11570:   Function RCaseOf( const S : string; const Cases : array of string ) : integer
11571:   Function EnumToJSString( TypeInfo : PTypeInfo; Value : integer ) : string
11572:   Function SetPaddings(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11573:   Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool): string;
11574:   Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11575:   Function IsUpperCase( S : string ) : boolean
11576:   Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11577:   Function BeautifyCSS( const AStyle : string ) : string
11578:   Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11579:   Function JSDateToDate( JSDate : string ) : TDate
11580: end;
11581:
11582: procedure SIRегистер_JclShell(CL: TPSPPascalCompiler);
11583: begin
11584:   TSHDeleteOption', '(', doSilent, doAllowUndo, doFilesOnly )
11585:   TSHDeleteOptions', 'set of TSHDeleteOption
11586:   TSHRenameOption', '(', roSilent, roRenameOnCollision )
11587:   TSHRenameOptions', 'set of TSHRenameOption
11588:   Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11589:   Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean
11590:   Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11591:   TEnumFolderFlag', '(', efFolders, efNonFolders, efIncludeHidden )
11592:   TEnumFolderFlags', 'set of TEnumFolderFlag
11593:   TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11594:   +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11595:   +'IEnumIdList; Folder : IShellFolder; end
11596:   Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11597:   Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11598:   Procedure SHEnumFolderClose( var F : TEnumFolderRec )
11599:   Function SHEnumFolderNext( var F : TEnumFolderRec ) : Boolean
11600:   Function GetSpecialFolderLocation( const Folder : Integer ) : string
11601:   Function DisplayPropDialog( const Handle : HWND; const FileName : string ) : Boolean;
11602:   Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList ) : Boolean;
11603:   Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint ) : Boolean
11604:   Function OpenFolder( const Path : string; Parent : HWND ) : Boolean
11605:   Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11606:   Function SHReallocMem( var P : Pointer; Count : Integer ) : Boolean
11607:   Function SHAllocMem( out P : Pointer; Count : Integer ) : Boolean
11608:   Function SHGetMem( var P : Pointer; Count : Integer ) : Boolean
11609:   Function SHFreeMem( var P : Pointer ) : Boolean
11610:   Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder ) : PItemIdList
11611:   Function PathToPidl( const Path : string; Folder : IShellFolder ) : PItemIdList
11612:   Function PathToPidlBind( const FileName : string; out Folder : IShellFolder ) : PItemIdList
11613:   Function PidlBindToParent(const Idlist:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11614:   Function PidlCompare( const Pidl1, Pidl2 : PItemIdList ) : Boolean
11615:   Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList ) : Boolean
11616:   Function PidlFree( var IdList : PItemIdList ) : Boolean
11617:   Function PidlGetDepth( const Pidl : PItemIdList ) : Integer
11618:   Function PidlGetLength( const Pidl : PItemIdList ) : Integer
11619:   Function PidlGetNext( const Pidl : PItemIdList ) : PItemIdList
11620:   Function PidlToPath( IdList : PItemIdList ) : string
11621:   Function StrRetFreeMem( StrRet : TStrRet ) : Boolean
11622:   Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean ) : string
11623:   PShellLink', '^TShellLink // will not work
11624:   TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11625:   +'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11626:   +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11627:   Procedure ShellLinkFree( var Link : TShellLink )
11628:   Function ShellLinkResolve( const FileName : string; var Link : TShellLink ) : HRESULT
11629:   Function ShellLinkCreate( const Link : TShellLink; const FileName : string ) : HRESULT
11630:   Function ShellLinkCreateSystem(const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11631:   Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon ) : Boolean
11632:   Function SHDlGetVersion( const FileName : string; var Version : TDllVersionInfo ) : Boolean
11633:   Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal ) : HICON
11634:   Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean ) : Boolean

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11635: Function OverlayIconShortCut( var Large, Small : HICON ) : Boolean
11636: Function OverlayIconShared( var Large, Small : HICON ) : Boolean
11637: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList ) : string
11638: Function ShellExecEx( const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int ):Bool;
11639: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int ):Bool;
11640: Function ShellExecAndWait( const FileName:string;const Params:string;const Verb:string;CmdShow:Int ):Bool;
11641: Function ShellOpenAs( const FileName : string ) : Boolean
11642: Function ShellRasial( const EntryName : string ) : Boolean
11643: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11644: Function GetFileNameIcon( const FileName : string; Flags : Cardinal ) : HICON
11645: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )
11646: Function GetFileExeType( const FileName : TFileName ) : TJclFileExeType
11647: Function ShellFindExecutable( const FileName, DefaultDir : string ) : string
11648: Procedure keybd_event( bvK : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD )
11649: Function OemKeyScan( wOemChar : Word ) : DWORD
11650: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD )
11651: end;
11652:
11653: procedure SIRegister_cXMLFunctions(CL: TPSPPascalCompiler);
11654: begin
11655: xmlVersion','String '1.0 FindClass('TOBJECT'),'Exml
11656: //Function xmlValidChar( const Ch : AnsiChar ) : Boolean;
11657: Function xmlValidChar( const Ch : UCS4Char ) : Boolean;
11658: Function xmlValidChar2( const Ch : WideChar ) : Boolean;
11659: Function xmlIsSpaceChar( const Ch : WideChar ) : Boolean;
11660: Function xmlIsLetter( const Ch : WideChar ) : Boolean;
11661: Function xmlIsDigit( const Ch : WideChar ) : Boolean;
11662: Function xmlIsNameStartChar( const Ch : WideChar ) : Boolean;
11663: Function xmlIsNameChar( const Ch : WideChar ) : Boolean;
11664: Function xmlIsPubidChar( const Ch : WideChar ) : Boolean;
11665: Function xmlValidName( const Text : UnicodeString ) : Boolean;
11666: //xmlSpace','Char #$20 or #$9 or #$D or #$A);
11667: //Function xmlSkipSpace( var P : PWideChar ) : Boolean;
11668: //Function xmlSkipEq( var P : PWideChar ) : Boolean;
11669: //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString ) : Boolean;
11670: //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer )
11671: : TUnicodeCodeClass
11672: Function xmlResolveEntityReference( const RefName : UnicodeString ) : WideChar;
11673: Function xmlTag( const Tag : UnicodeString ) : UnicodeString;
11674: Function xmlEndTag( const Tag : UnicodeString ) : UnicodeString;
11675: Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString ) : UnicodeString;
11676: Procedure xmlEmptyTag( const Tag, Attr : UnicodeString ) : UnicodeString;
11677: Function xmlSafeTextInPlace( var Txt : UnicodeString ) : UnicodeString;
11678: Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer ) : UnicodeString;
11679: Function xmlTabIndent( const IndentLevel : Integer ) : UnicodeString;
11680: Function xmlComment( const Comment : UnicodeString ) : UnicodeString;
11681: Procedure SelfTestcXMLFunctions
11682: end;
11683:
11684: (*-----*)
11685: procedure SIRegister_DepWalkUtils(CL: TPSPPascalCompiler);
11686: begin
11687: Function AWaitCursor : IUnknown;
11688: Function ChangeCursor( NewCursor : TCursor ) : IUnknown;
11689: Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean );
11690: Function YesNo( const ACaption, AMsg : string ) : boolean;
11691: Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings );
11692: Function GetBorlandLibPath( Version : integer; ForDelphi : boolean ) : string;
11693: Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean ) : string;
11694: Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings );
11695: Procedure GetSystemPaths( Strings : TStrings );
11696: Procedure MakeEditNumeric( EditHandle : integer );
11697: end;
11698:
11699: procedure SIRegister_yuvconverts(CL: TPSPPascalCompiler);
11700: begin
11701: AddTypesS('TVideoCodec','(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11702: 'BI_YUY2','LongWord( $32595559 );
11703: 'BI_UYVY','LongWord').SetUInt( $59565955 );
11704: 'BI_BTYUV','LongWord').SetUInt( $50313459 );
11705: 'BI_VVU8','LongWord').SetUInt( $39555659 );
11706: 'BI_YUV12','LongWord( $30323449 );
11707: 'BI_Y8','LongWord').SetUInt( $20203859 );
11708: 'BI_Y211','LongWord').SetUInt( $31313259 );
11709: Function BICompressionToVideoCodec( Value : DWord ) : TVideoCodec;
11710: Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11711: end;
11712:
11713: (*-----*)
11714: procedure SIRegister_AviCap(CL: TPSPPascalCompiler);
11715: begin
11716: 'WM_USER','LongWord').SetUInt( $0400 );
11717: 'WM_CAP_START','LongWord').SetUInt($0400);
11718: 'WM_CAP_END','longword').SetUInt($0400+85);
11719: //WM_CAP_START+ 85
11720: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11721: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt ) : LongInt;
11722: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt ) : LongInt;

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11723: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt ) : LongInt
11724: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt ) : LongInt
11725: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11726: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11727: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt ) : LongInt
11728: Function capSetUserData( hwnd : THandle; lUser : LongInt ) : LongInt
11729: Function capGetUserData( hwnd : THandle ) : LongInt
11730: Function capDriverConnect( hwnd : THandle; I : Word ) : LongInt
11731: Function capDriverDisconnect( hwnd : THandle ) : LongInt
11732: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11733: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word ) : LongInt
11734: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11735: Function capfileSetCaptureFile( hwnd : THandle; szName : LongInt ) : LongInt
11736: Function capfileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11737: Function capfileAlloc( hwnd : THandle; dwSize : LongInt ) : LongInt
11738: Function capfileSaveAs( hwnd : THandle; szName : LongInt ) : LongInt
11739: Function capfileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt ) : LongInt
11740: Function capFileSaveDIB( hwnd : THandle; szName : LongInt ) : LongInt
11741: Function capEditCopy( hwnd : THandle ) : LongInt
11742: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11743: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11744: Function capGetAudioFormatSize( hwnd : THandle ) : LongInt
11745: Function capDlgVideoFormat( hwnd : THandle ) : LongInt
11746: Function capDlgVideoSource( hwnd : THandle ) : LongInt
11747: Function capDlgVideoDisplay( hwnd : THandle ) : LongInt
11748: Function capDlgVideoCompression( hwnd : THandle ) : LongInt
11749: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11750: Function capGetVideoFormatSize( hwnd : THandle ) : LongInt
11751: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11752: Function capPreview( hwnd : THandle; f : Word ) : LongInt
11753: Function capPreviewRate( hwnd : THandle; wMS : Word ) : LongInt
11754: Function capOverlay( hwnd : THandle; f : Word ) : LongInt
11755: Function capPreviewScale( hwnd : THandle; f : Word ) : LongInt
11756: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11757: Function capSetScrollPos( hwnd : THandle; lpP : LongInt ) : LongInt
11758: Function capGrabFrame( hwnd : THandle ) : LongInt
11759: Function capGrabFrameNoStop( hwnd : THandle ) : LongInt
11760: Function capCaptureSequence( hwnd : THandle ) : LongInt
11761: Function capCaptureSequenceNoFile( hwnd : THandle ) : LongInt
11762: Function capCaptureStop( hwnd : THandle ) : LongInt
11763: Function capCaptureAbort( hwnd : THandle ) : LongInt
11764: Function capCaptureSingleFrameOpen( hwnd : THandle ) : LongInt
11765: Function capCaptureSingleFrameClose( hwnd : THandle ) : LongInt
11766: Function capCaptureSingleFrame( hwnd : THandle ) : LongInt
11767: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11768: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11769: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt ) : LongInt
11770: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11771: Function capPaletteOpen( hwnd : THandle; szName : LongInt ) : LongInt
11772: Function capPaletteSave( hwnd : THandle; szName : LongInt ) : LongInt
11773: Function capPalettePaste( hwnd : THandle ) : LongInt
11774: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt ) : LongInt
11775: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt ) : LongInt
11776: //PCapDriverCaps', '^TCapDriverCaps // will not work
11777: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11778: +' ; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11779: +'y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hVid'
11780: +'eIoN : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11781: //PCapStatus', '^TCapStatus // will not work
11782: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11783: +'fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOINT'
11784: +'T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11785: +'OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11786: +'rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11787: +'ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD; '
11788: +'wNumAudioAllocated : WORD; end
11789: //PCaptureParms', '^TCaptureParms // will not work
11790: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11791: +'UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'
11792: +'ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11793: +'deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11794: +'Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; flimitEnabl'
11795: +'ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11796: +'wMCICStartTime : DWORD; dwMCICStopTime : DWORD; fStepCaptureAt2x : BOOL; wSt'
11797: +'epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11798: +'he : BOOL; AVStreamMaster : WORD; end
11799: // PCapInfoChunk', '^TCapInfoChunk // will not work
11800: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11801: 'CONTROLCALLBACK_PREROLL','LongInt'( 1);
11802: 'CONTROLCALLBACK_CAPTURING','LongInt'( 2);
11803: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer ) : THandle
11804: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11805: 'IDS_CAP_BEGIN','LongInt'( 300);
11806: 'IDS_CAP_END','LongInt'( 301);
11807: 'IDS_CAP_INFO','LongInt'( 401);
11808: 'IDS_CAP_OUTOFCMEM','LongInt'( 402);
11809: 'IDS_CAP_FILEEXISTS','LongInt'( 403);

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11810: 'IDS_CAP_ERRORPALOPEN', 'LongInt'( 404);
11811: 'IDS_CAP_ERRORPALSAVE', 'LongInt'( 405);
11812: 'IDS_CAP_ERRORDIBSAVE', 'LongInt'( 406);
11813: 'IDS_CAP_DEFAVIEXT', 'LongInt'( 407);
11814: 'IDS_CAP_DEFPALEXT', 'LongInt'( 408);
11815: 'IDS_CAP_CANTOPEN', 'LongInt'( 409);
11816: 'IDS_CAP_SEQ_MSGSTART', 'LongInt'( 410);
11817: 'IDS_CAP_SEQ_MSGSTOP', 'LongInt'( 411);
11818: 'IDS_CAP_VIDEEDITERR', 'LongInt'( 412);
11819: 'IDS_CAP_READONLYFILE', 'LongInt'( 413);
11820: 'IDS_CAP_WRITEERROR', 'LongInt'( 414);
11821: 'IDS_CAP_NODISKSPACE', 'LongInt'( 415);
11822: 'IDS_CAP_SETFILESIZE', 'LongInt'( 416);
11823: 'IDS_CAP_SAVEASPERCENT', 'LongInt'( 417);
11824: 'IDS_CAP_DRIVER_ERROR', 'LongInt'( 418);
11825: 'IDS_CAP_WAVE_OPEN_ERROR', 'LongInt'( 419);
11826: 'IDS_CAP_WAVE_ALLOC_ERROR', 'LongInt'( 420);
11827: 'IDS_CAP_WAVE_PREPARE_ERROR', 'LongInt'( 421);
11828: 'IDS_CAP_WAVE_ADD_ERROR', 'LongInt'( 422);
11829: 'IDS_CAP_WAVE_SIZE_ERROR', 'LongInt'( 423);
11830: 'IDS_CAP_VIDEO_OPEN_ERROR', 'LongInt'( 424);
11831: 'IDS_CAP_VIDEO_ALLOC_ERROR', 'LongInt'( 425);
11832: 'IDS_CAP_VIDEO_PREPARE_ERROR', 'LongInt'( 426);
11833: 'IDS_CAP_VIDEO_ADD_ERROR', 'LongInt'( 427);
11834: 'IDS_CAP_VIDEO_SIZE_ERROR', 'LongInt'( 428);
11835: 'IDS_CAP_FILE_OPEN_ERROR', 'LongInt'( 429);
11836: 'IDS_CAP_FILE_WRITE_ERROR', 'LongInt'( 430);
11837: 'IDS_CAP_RECORDING_ERROR', 'LongInt'( 431);
11838: 'IDS_CAP_RECORDING_ERROR2', 'LongInt'( 432);
11839: 'IDS_CAP_AVI_INIT_ERROR', 'LongInt'( 433);
11840: 'IDS_CAP_NO_FRAME_CAP_ERROR', 'LongInt'( 434);
11841: 'IDS_CAP_NO_PALETTE_WARN', 'LongInt'( 435);
11842: 'IDS_CAP_MCI_CONTROL_ERROR', 'LongInt'( 436);
11843: 'IDS_CAP_MCI_CANT_STEP_ERROR', 'LongInt'( 437);
11844: 'IDS_CAP_NO_AUDIO_CAP_ERROR', 'LongInt'( 438);
11845: 'IDS_CAP_AVI_DRAWDIB_ERROR', 'LongInt'( 439);
11846: 'IDS_CAP_COMPRESSOR_ERROR', 'LongInt'( 440);
11847: 'IDS_CAP_AUDIO_DROP_ERROR', 'LongInt'( 441);
11848: 'IDS_CAP_STAT_LIVE_MODE', 'LongInt'( 500);
11849: 'IDS_CAP_STAT_OVERLAY_MODE', 'LongInt'( 501);
11850: 'IDS_CAP_STAT_CAP_INIT', 'LongInt'( 502);
11851: 'IDS_CAP_STAT_CAP_FINI', 'LongInt'( 503);
11852: 'IDS_CAP_STAT_PALETTE_BUILD', 'LongInt'( 504);
11853: 'IDS_CAP_STAT_OPTPAL_BUILD', 'LongInt'( 505);
11854: 'IDS_CAP_STAT_I_FRAMES', 'LongInt'( 506);
11855: 'IDS_CAP_STAT_L_FRAMES', 'LongInt'( 507);
11856: 'IDS_CAP_STAT_CAP_L_FRAMES', 'LongInt'( 508);
11857: 'IDS_CAP_STAT_CAP_AUDIO', 'LongInt'( 509);
11858: 'IDS_CAP_STAT_VIDEOCURRENT', 'LongInt'( 510);
11859: 'IDS_CAP_STAT_VIDEOAUDIO', 'LongInt'( 511);
11860: 'IDS_CAP_STAT_VIDEOONLY', 'LongInt'( 512);
11861: 'IDS_CAP_STAT_FRAMESDROPPED', 'LongInt'( 513);
11862: 'AVICAP32', 'String' 'AVICAP32.dll'
11863: end;
11864:
11865: procedure SIRегистер_ALFcнMisc(CL: TPSPascalCompiler);
11866: begin
11867:   Function AlBoolToInt( Value : Boolean) : Integer
11868:   Function ALMediumPos( LTotal, LBorder, LObject : integer) : Integer
11869:   Function AlIsValidEmail( const Value : AnsiString) : boolean
11870:   Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime) : TdateTime
11871:   Function ALInc( var x : integer; Count : integer) : Integer
11872:   function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11873:   function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11874:   procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11875:   Function ALIsInteger(const S: AnsiString): Boolean;
11876:   function ALIsDecimal(const S: AnsiString): boolean;
11877:   Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11878:   function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11879:   function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11880:   function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11881:   function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11882:   Function ALRandomStr1(const aLength: Longint; const acharset: Array of Char): AnsiString;
11883:   Function ALRandomStr(const aLength: Longint): AnsiString;
11884:   Function ALRandomStrU(const aLength: Longint; const acharset: Array of Char): String;
11885:   Function ALRandomStrU(const aLength: Longint): String;
11886: end;
11887:
11888: procedure SIRегистер_ALJSONDoc(CL: TPSPascalCompiler);
11889: begin
11890:   Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const aTrueStr: AnsiString; const aFalseStr : AnsiString)
11891:   end;
11892:
11893: procedure SIRегистер_ALWindows(CL: TPSPascalCompiler);
11894: begin
11895:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11896:     +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11897:     +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'

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11898: +' ; ullAvailExtendedVirtual : Int64; end
11899: TALMemoryStatusEx', '_ALMEMORYSTATUSEX'
11900: Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11901: Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11902: 'INVALID_SET_FILE_POINTER','LongInt'('DWORD'(-1));
11903: 'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt($2);
11904: 'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt($1);
11905: 'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt($8);
11906: 'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt($4);
11907: end;
11908:
11909: procedure SIRегистer_IPCThrd(CL: TPSPPascalCompiler);
11910: begin
11911:   SIRегистer_THandledObject(CL);
11912:   SIRегистer_TEvent(CL);
11913:   SIRегистer_TMutex(CL);
11914:   SIRегистer_TSharedMem(CL);
11915:   'TRACE_BUF_SIZE','LongInt'( 200 * 1024 );
11916:   'TRACE_BUFFER','String 'TRACE_BUFFER
11917:   'TRACE_MUTEX','String 'TRACE_MUTEX
11918:   //PTraceEntry', '^TTraceEntry // will not work
11919:   SIRегистer_TIPCTracer(CL);
11920:   'MAX_CLIENTS','LongInt'( 6 );
11921:   'IPCTIMEOUT','LongInt'( 2000 );
11922:   'IPCBUFFER_NAME','String 'BUFFER_NAME
11923:   'BUFFER_MUTEX_NAME','String 'BUFFER_MUTEX
11924:   'MONITOR_EVENT_NAME','String 'MONITOR_EVENT
11925:   'CLIENT_EVENT_NAME','String 'CLIENT_EVENT
11926:   'CONNECT_EVENT_NAME','String 'CONNECT_EVENT
11927:   'CLIENT_DIR_NAME','String 'CLIENT_DIRECTORY
11928:   'CLIENT_DIR_MUTEX','String 'DIRECTORY_MUTEX
11929:   FindClass('TOBJECT'), 'EMonitorActive
11930:   FindClass('TOBJECT'), 'TIPCThread
11931:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11932:   +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11933:   +'ach, evClientSwitch, evClientSignal, evClientExit )
11934:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11935:   TClientFlags', 'set of TClientFlag
11936: //PEventData', '^TEventData // will not work
11937: TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11938:   +'lag; Flags : TClientFlags; end
11939: TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11940: TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11941: TIPNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11942: //TIPCEventInfo', '^TIPCEventInfo // will not work
11943: TIPCEventInfo', 'record FID:Integer; FKind:TEventKind; FData:TEventData; end
11944: SIRегистer_TIPCEvent(CL);
11945: //TClientDirRecords', '^TClientDirRecords // will not work
11946: SIRегистer_TCClientDirectory(CL);
11947: TIPCState', '( stInactive, stDisconnected, stConnected )
11948: SIRегистer_TIPCThread(CL);
11949: SIRегистer_TIPCMonitor(CL);
11950: SIRегистer_TIPCCClient(CL);
11951: Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11952: end;
11953:
11954: (*-----*)
11955: procedure SIRегистer_ALGSMComm(CL: TPSPPascalCompiler);
11956: begin
11957:   SIRегистer_TALGSMComm(CL);
11958:   Function ALGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11959:   Procedure ALGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
AMessage:AnsiString);
11960:   Function ALGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11961:   Function ALGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
UseGreekAlphabet:Bool):Widestring;
11962:   function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11963:   end;
11964:
11965: procedure SIRегистer_ALHttpCommon(CL: TPSPPascalCompiler);
11966: begin
11967:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11968:   TALHTTPProtocolVersion', '( HTTPPpv_1_0, HTTPPpv_1_1 )
11969:   TALHTTPMethod', '(HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete);
11970:   TInternetScheme', 'integer
11971:   TALIPv6Binary', 'array[1..16] of Char;
11972:   // TALIPv6Binary = array[1..16] of ansiChar;
11973:   // TInternetScheme = Integer;
11974:   SIRегистer_TALHTTPRequestHeader(CL);
11975:   SIRегистer_TALHTTPCookie(CL);
11976:   SIRегистer_TALHTTPCookieCollection(CL);
11977:   SIRегистer_TALHTTPResponseHeader(CL);
11978:   Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11979:   Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11980:   // Procedure ALEExtractHTTPFields(Separators,WhiteSpace,Quotes:TSysCharSet;
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11981:   // Procedure ALEExtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11982:   // Procedure ALEExtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)

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11983: Function AlRemoveSchemeFromUrl( aUrl : AnsiString ) : ansiString
11984: Function AlExtractSchemeFromUrl( aUrl : AnsiString ) : TIInternetScheme
11985: Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11986: Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11987: Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11988: Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName, HostName, UserName, Password, UrlPath,
  ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11989: Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password, UrlPath,
  Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11990: Function AlInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11991: Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
11992: Function AlRemoveAnchorFromUrl1( aUrl : AnsiString ) : AnsiString;
11993: Function AlCombineUrl( RelativeUrl, BaseUrl : AnsiString ) : AnsiString;
11994: Function AlCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
11995: Function ALGmtDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11996: Function ALDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11997: Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
11998: Function ALRfc822StrToGMTDateTime( const s : AnsiString ) : TDateTime
11999: Function ALTryIPV4StrToNumeric( aIPv4Str : ansiString; var aIPv4Num : Cardinal ) : Boolean
12000: Function ALIPV4StrToNumeric( aIPv4 : ansiString ) : Cardinal
12001: Function ALNumericToIPv4Str( aIPv4 : Cardinal ) : ansiString
12002: Function ALZeroIpV6 : TALIPv6Binary
12003: Function ALTryIPV6StrToBinary( aIPv6Str : ansiString; var aIPv6Bin : TALIPv6Binary ) : Boolean
12004: Function ALIPV6StrToBinary( aIPv6 : ansiString ) : TALIPv6Binary
12005: Function ALBinaryToIPv6Str( aIPv6 : TALIPv6Binary ) : ansiString
12006: Function ALBinaryStrToIPv6Binary( aIPv6BinaryStr : ansiString ) : TALIPv6Binary
12007: end;
12008:
12009: procedure SIRегистre_ALFcnHTML(CL: TPSPascalCompiler);
12010: begin
12011:   Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
  DecodeHTMLText:Bool;
12012:   Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
12013:   Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
12014:   Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
12015:   Function ALUTF8XMLElementDecode( const Src : AnsiString ) : AnsiString
12016:   Function ALUTF8HTMLDecode(const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
  useNumRef:bool):AnsiString;
12017:   Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
12018:   Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean ) : AnsiString
12019:   Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
12020:   Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
  DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
12021:   Procedure ALCompactHtmlTagParams( TagParams : TALStrings )
12022: end;
12023:
12024: procedure SIRегистre_ALInternetMessageCommon(CL: TPSPascalCompiler);
12025: begin
12026:   SIRегистre_TALEMailHeader(CL);
12027:   SIRегистre_TALNewsArticleHeader(CL);
12028:   Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
  decodeRealName:Bool):AnsiString;
12029:   Function AlExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
12030:   Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
12031:   Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
12032:   Function AlGenerateInternetMessageID : AnsiString;
12033:   Function AlGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
12034:   Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
12035:   Function AlDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
12036: end;
12037:
12038: (*-----*)
12039: procedure SIRегистre_ALFcnWinSock(CL: TPSPascalCompiler);
12040: begin
12041:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
12042:   Function ALIPAddrToName( IPAddr : AnsiString ) : AnsiString
12043:   Function ALGetLocalIPs : TALStrings
12044:   Function ALGetLocalHostName : AnsiString
12045: end;
12046:
12047: procedure SIRегистre_ALFcnCGI(CL: TPSPascalCompiler);
12048: begin
12049:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
  TALWebRequest;ServerVariables:TALStrings);
12050:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables :
  TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
12051:   Procedure AlCGIInitDefaultServerVariables( ServerVariables : TALStrings );
12052:   Procedure AlCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
  ScriptFileName:AnsiString;Url:AnsiStr;
12053:   Procedure AlCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
  ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
12054:   Procedure AlCGIExec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
  : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader );
12055:   Procedure AlCGIExec1( ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
  WebRequest : TALIsapiRequest;
  overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;' 
12056:   +'overloadedRequestContentStream:Tstream;var
  ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
12057:   Procedure AlCGIExec2( ScriptName,ScriptFileName,Url,X_REWRITE_URL,
  InterpreterFilename:AnsiString;WebRequest : TALIsapiRequest; var ResponseContentString : AnsiString;
  ResponseHeader : TALHTTPResponseHeader );

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12058: end;
12059:
12060: procedure SIRegister_ALFcns(CL: TPSPPascalCompiler);
12061: begin
12062:   TStartupInfoA', 'TStartupInfo
12063:   'SE_CREATE_TOKEN_NAME', 'String' ( 'SeCreateTokenPrivilege
12064:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String' 'SeAssignPrimaryTokenPrivilege
12065:   SE_LOCK_MEMORY_NAME', 'String' ( 'SeLockMemoryPrivilege
12066:   SE_INCREASE_QUOTA_NAME', 'String' 'SeIncreaseQuotaPrivilege
12067:   SE_UNSOLICITED_INPUT_NAME', 'String' 'SeUnsolicitedInputPrivilege
12068:   SE_MACHINE_ACCOUNT_NAME', 'String' 'SeMachineAccountPrivilege
12069:   SE_TCB_NAME', 'String' 'SeTcbPrivilege
12070:   SE_SECURITY_NAME', 'String' 'SeSecurityPrivilege
12071:   SE_TAKE_OWNERSHIP_NAME', 'String' 'SeTakeOwnershipPrivilege
12072:   SE_LOAD_DRIVER_NAME', 'String' 'SeLoadDriverPrivilege
12073:   SE_SYSTEM_PROFILE_NAME', 'String' 'SeSystemProfilePrivilege
12074:   SE_SYSTEMTIME_NAME', 'String' 'SeSystemtimePrivilege
12075:   SE_PROF_SINGLE_PROCESS_NAME', 'String' 'SeProfileSingleProcessPrivilege
12076:   SE_INC_BASE_PRIORITY_NAME', 'String' 'SeIncreaseBasePriorityPrivilege
12077:   SE_CREATE_PAGEFILE_NAME', 'String' 'SeCreatePagefilePrivilege
12078:   SE_CREATE_PERMANENT_NAME', 'String' 'SeCreatePermanentPrivilege
12079:   SE_BACKUP_NAME', 'String' 'SeBackupPrivilege
12080:   SE_RESTORE_NAME', 'String' 'SeRestorePrivilege
12081:   SE_SHUTDOWN_NAME', 'String' 'SeShutdownPrivilege
12082:   SE_DEBUG_NAME', 'String' 'SeDebugPrivilege
12083:   SE_AUDIT_NAME', 'String' 'SeAuditPrivilege
12084:   SE_SYSTEM_ENVIRONMENT_NAME', 'String' 'SeSystemEnvironmentPrivilege
12085:   SE_CHANGE_NOTIFY_NAME', 'String' 'SeChangeNotifyPrivilege
12086:   SE_REMOTE_SHUTDOWN_NAME', 'String' 'SeRemoteShutdownPrivilege
12087:   SE_UNDOCK_NAME', 'String' 'SeUndockPrivilege
12088:   SE_SYNC_AGENT_NAME', 'String' 'SeSyncAgentPrivilege
12089:   SE_ENABLE_DELEGATION_NAME', 'String' 'SeEnableDelegationPrivilege
12090:   SE_MANAGE_VOLUME_NAME', 'String' 'SeManageVolumePrivilege
12091:   Function AlGetEnvironmentString : AnsiString
12092:   Function ALWinExec32(const FileName, CurrentDir,
Environment: AnsiString; InStream:Tstream; OutStream:TStream):Dword;
12093:   Function ALWinExec321(const FileName:AnsiString; InputStream:Tstream; OutputStream:TStream):Dword;
12094:   Function ALWinExecAndWait32(FileName : AnsiString; Visibility : integer) : DWORD
12095:   Function ALWinExecAndWait32V2(FileName : AnsiString; Visibility : integer) : DWORD
12096:   Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean) : Boolean
12097: end;
12098:
12099: procedure SIRegister_ALFcns(CL: TPSPPascalCompiler);
12100: begin
12101:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime):Boolean;
12102:   Function AlEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const
RemoveEmptySubDirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime) : Boolean;
12103:   Function AlCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
FileNameMask : ansiString; const FailIfExists : Boolean) : Boolean
12104:   Function ALGetModuleName : ansistring
12105:   Function ALGetModuleFileNameWithoutExtension : ansistring
12106:   Function ALGetModulePath : ansiString
12107:   Function ALGetFileSize( const AFileName : ansistring) : int64
12108:   Function ALGetFileVersion( const AFileName : ansistring) : ansiString
12109:   Function ALGetFileCreationDateTime( const aFileName : Ansistring) : TDateTime
12110:   Function ALGetFileLastWriteDateTime( const aFileName : Ansistring) : TDateTime
12111:   Function ALGetFileLastAccessDateTime( const aFileName : Ansistring) : TDateTime
12112:   Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime)
12113:   Function ALIsDirectoryEmpty( const directory : ansiString) : boolean
12114:   Function ALFileExists( const Path : ansiString) : boolean
12115:   Function ALDirectoryExists( const Directory : Ansistring) : Boolean
12116:   Function ALCreateDir( const Dir : Ansistring) : Boolean
12117:   Function ALRemoveDir( const Dir : Ansistring) : Boolean
12118:   Function ALDeleteFile( const FileName : Ansistring) : Boolean
12119:   Function ALRenameFile( const OldName, NewName : ansistring) : Boolean
12120: end;
12121:
12122: procedure SIRegister_ALFcns(CL: TPSPPascalCompiler);
12123: begin
12124:   NativeInt', 'Integer
12125:   NativeUInt', 'Cardinal
12126:   Function ALMimeBase64EncodeString( const S : AnsiString) : AnsiString
12127:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString) : AnsiString
12128:   Function ALMimeBase64DecodeString( const S : AnsiString) : AnsiString
12129:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt) : NativeInt
12130:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt) : NativeInt
12131:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt) : NativeInt
12132:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12133:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12134:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12135:   Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt;
12136:   Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt);
12137:   + 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;

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12138: Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
12139:   ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal) : NativeInt;
12140: Procedure ALMimeBase64Encode(const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
12141:   OutputBuf:TByteDynArray);
12142: Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
12143:   OutputBuffer:TByteDynArray);
12144: Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12145:   OutputBuffer:TByteDynArray);
12146: Function ALMimeBase64DecodePartial(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12147:   OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12148: Function ALMimeBase64DecodePartialEnd(out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
12149:   ByteBufferSpace:Cardinal):NativeInt;
12150: Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName)
12151: Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName)
12152: Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName)
12153: Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream)
12154: Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream)
12155: Procedure ALMimeBase64DecodeStream(const InputStream : TStream; const OutputStream : TStream)
12156: 'cALMimeBase64_ENCODED_LINE_BREAK','LongInt'( 76);
12157: 'cALMimeBase64_DECODED_LINE_BREAK','LongInt'( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3);
12158: 'cALMimeBase64_BUFFER_SIZE','LongInt'( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4);
12159: Procedure ALFillMimeTypeByExtList( AMIMEList : TALStrings)
12160: Procedure ALFillExtByMimeTypeList( AMIMEList : TALStrings)
12161: Function ALGetDefaultFileExtFromMimeType(aContentType : AnsiString) : AnsiString
12162: Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString) : AnsiString
12163: begin
12164:   begin
12165:     begin
12166:       TALXMLParseProcessingInstructionEvent','Procedure ( Sender:TObject; const Target,Data:AnsiString)
12167:       TALXMLParseTextEvent','Procedure ( Sender : TObject; const str: AnsiString)
12168:       TALXMLParseStartElementEvent','Procedure ( Sender : TObject; co'
12169:         +'nst Name : AnsiString; const Attributes : TALStrings)
12170:       TALXMLParseEndElementEvent','Procedure ( Sender : TObject; const Name : AnsiString)
12171:       TALXmlNodeType','( ntReserved, ntElement, ntAttribute, ntText, '
12172:         +'ntCData, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12173:         +'ntDocType, ntDocFragment, ntNotation )
12174:       TALXMLDocOption','( doNodeAutoCreate, doNodeAutoIndent )
12175:       TALXMLDocOptions,'set of TALXMLDocOption
12176:       TALXMLParseOption','( poPreserveWhiteSpace, poIgnoreXMLReferences )
12177:       TALXMLParseOptions,'set of TALXMLParseOption
12178:       TALXMLPrologItem','( xpVersion, xpEncoding, xpStandalone )
12179:       PALPointerXMLNodeList,'^TALPointerXMLNodeList // will not work
12180:       SIRegister_EALXMLDocError(CL);
12181:       SIRegister_TALXMLNodelist(CL);
12182:       SIRegister_TALXMLNode(CL);
12183:       SIRegister_TALXmlElementNode(CL);
12184:       SIRegister_TALXmlAttributeNode(CL);
12185:       SIRegister_TALXmlTextNode(CL);
12186:       SIRegister_TALXmlDocumentNode(CL);
12187:       SIRegister_TALXmlCommentNode(CL);
12188:       SIRegister_TALXmlProcessingInstrNode(CL);
12189:       SIRegister_TALXmlCDataNode(CL);
12190:       SIRegister_TALXmlEntityRefNode(CL);
12191:       SIRegister_TALXmlEntityNode(CL);
12192:       SIRegister_TALXmlDocTypeNode(CL);
12193:       SIRegister_TALXmlDocFragmentNode(CL);
12194:       SIRegister_TALXmlNotationNode(CL);
12195:       SIRegister_TALXMLDocument(CL);
12196:       cALMLUTF8EncodingStr','String 'UTF-8
12197:       cALMxmlUTF8HeaderStr','String '<?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' +#13#10);
12198:       CALNSDelim,'String :
12199:       CALXML','String 'xml
12200:       CALVersion','String 'version
12201:       CALEncoding','String 'encoding
12202:       CALStandalone','String 'standalone
12203:       CALDefaultNodeIndent','String '
12204:       CALxmlDocument','String 'DOCUMENT
12205:       Function ALCreateEmptyXMLDocument( const Rootname : AnsiString) : TalXMLDocument
12206:       Procedure ALClearXMLDocument(const rootname:AnsiString;xmldoc:TalXMLDocument;const
12207:         EncodingStr:AnsiString);
12208:       Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildNodeName,
12209:         ChildNodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12210:       Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
12211:         ChildNodeName, ChildNodeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12212:       Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
12213:         Recurse : Boolean):TalxmlNode
12214:       Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
12215:         AttributeName,AttributeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12216:       Function ALEExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString) :
12217:         AnsiString
12218:       end;
12219:
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12214: procedure SIRegister_TeCanvas(CL: TPSPascalCompiler);
12215: //based on TEEProc, TeCanvas, TEEEngine, TChart
12216: begin
12217:   'TeePiStep','Double').setExtended( Pi / 180.0);
12218:   'TeeDefaultPerspective','LongInt'( 100);
12219:   'TeeMinAngle','LongInt'( 270);
12220:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12221:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $FOCAA6 ));
12222:   'teeclCream','LongWord( TColor ( $FOFBFF ));
12223:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0AO ));
12224:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12225:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $FOCAA6 ));
12226:   'teeclCream','LongWord').SetUInt( TColor ( $FOFBFF ));
12227:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0AO ));
12228:   'TA_LEFT','LongInt'( 0);
12229:   'TA_RIGHT','LongInt'( 2);
12230:   'TA_CENTER','LongInt'( 6);
12231:   'TA_TOP','LongInt'( 0);
12232:   'TA_BOTTOM','LongInt'( 8);
12233:   'teePATCOPY','LongInt'( 0);
12234:   'NumCirclePoints','LongInt'( 64);
12235:   'teeDEFAULT_CHARSET','LongInt'( 1);
12236:   'teeANTIALIASED_QUALITY','LongInt'( 4);
12237:   'TA_LEFT','LongInt'( 0);
12238:   'bs_Solid','LongInt'( 0);
12239:   'teepf24Bit','LongInt'( 0);
12240:   'teepfDevice','LongInt'( 1);
12241:   'CM_MOUSELEAVE','LongInt'( 10000);
12242:   'CM_SYSCOLORCHANGE','LongInt'( 10001);
12243:   'DC_BRUSH','LongInt'( 18);
12244:   'DC_PEN','LongInt'( 19);
12245:   teeCOLORREF', 'LongWord
12246:   TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12247: //TNotifyEvent', 'Procedure ( Sender : TObject)
12248: SIRegister_TFilterRegion(CL);
12249: SIRegister_IFormCreator(CL);
12250: SIRegister_TTeeFilter(CL);
12251: //TFilterClass', 'class of TTeeFilter
12252: SIRegister_TFilterItems(CL);
12253: SIRegister_TConvolveFilter(CL);
12254: SIRegister_TBlurFilter(CL);
12255: SIRegister_TTeePicture(CL);
12256: TPenEndStyle', '( esRound, esSquare, esFlat )
12257: SIRegister_TChartPen(CL);
12258: SIRegister_TChartHiddenPen(CL);
12259: SIRegister_TDottedGrayPen(CL);
12260: SIRegister_TDarkGrayPen(CL);
12261: SIRegister_TWhitePen(CL);
12262: SIRegister_TChartBrush(CL);
12263: TTeeView3DSrolled', 'Procedure ( IsHoriz : Boolean)
12264: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12265: SIRegister_TVview3DOptions(CL);
12266: FindClass('TOBJECT'), 'TTeeCanvas
12267: TTeeTransparency', 'Integer
12268: SIRegister_TTeeBlend(CL);
12269: FindClass('TOBJECT'), 'TCanvas3D
12270: SIRegister_TTeeShadow(CL);
12271: teeTGradientDirection', '(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown ')
12272: FindClass('TOBJECT'), 'TSubGradient
12273: SIRegister_TCustomTeeGradient(CL);
12274: SIRegister_TSubGradient(CL);
12275: SIRegister_TTeeGradient(CL);
12276: SIRegister_TTeeFontGradient(CL);
12277: SIRegister_TTeeFont(CL);
12278: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12279: TCanvasTextAlign', 'Integer
12280: TTeeCanvasHandle', 'HDC
12281: SIRegister_TTeeCanvas(CL);
12282: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12283: SIRegister_TFloatXYZ(CL);
12284: TPoint3D', 'record x : integer; y : integer; z : Integer; end
12285: TRGB', 'record blue: byte; green: byte; red: byte; end
12286: {TRGB=packed record
12287:   Blue : Byte;
12288:   Green : Byte;
12289:   Red : Byte;
12290:   //$/IFDEF CLX //Alpha : Byte; // Linux end;
12291:
12292: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12293:   +'TPoint3D; var Color0, Color1 : TColor) : Boolean
12294: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12295: TCanvas3DPlane', '( cpX, cpY, cpZ )
12296: //IInterface', 'IUnknown
12297: SIRegister_TCanvas3D(CL);
12298: SIRegister_TTeeCanvas3D(CL);
12299: TTrianglePoints', 'Array[0..2] of TPoint;
12300: TFourPoints', 'Array[0..3] of TPoint;
12301: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor

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12302: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12303: Function Point3D( const x, y, z : Integer) : TPoint3D
12304: Procedure SwapDouble( var a, b : Double)
12305: Procedure SwapInteger( var a, b : Integer)
12306: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12307: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12308: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer): TRect
12309: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12310: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12311: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12312: Procedure UnClipCanvas( ACanvas : TCanvas)
12313: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12314: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12315: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12316: 'TeeCharForHeight','String 'W
12317: 'DarkerColorQuantity','Byte').SetUInt( 128);
12318: 'DarkColorQuantity','Byte').SetUInt( 64);
12319: TButtonGetColorProc, 'Function : TColor
12320: SIRegister_TTeeButton(CL);
12321: SIRegister_TButtonColor(CL);
12322: SIRegister_TComboFlat(CL);
12323: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTeeCanvasHandle)
12324: Function TeePoint( const ax, ay : Integer) : TPoint
12325: Function TEEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12326: Function PointInRectl( const Rect : TRect; x, y : Integer) : Boolean;
12327: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12328: Function OrientRectangle( const R : TRect) : TRect
12329: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12330: Function PolygonBounds( const P : array of TPoint) : TRect
12331: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12332: Function RGBValue( const Color : TColor) : TRGB
12333: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12334: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12335: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer) : TPoint
12336: Function TeeCull( const P : TFourPoints) : Boolean;
12337: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12338: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12339: Procedure SmoothStretch( Src, Dst : TBitmap);
12340: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12341: Function TeeDistance( const x, y : Double) : Double
12342: Function TeeLoadLibrary( const FileName : String) : HInst
12343: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12344: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12345: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap)
12346: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
  Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12347: SIRegister_ICanvasHyperlinks(CL);
12348: SIRegister_ICanvasToolTips(CL);
12349: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12350: end;
12351:
12352: procedure SIRegister_ovcmisc(CL: TPSPascalCompiler);
12353: begin
12354:   TOvcHdc', 'Integer
12355:   TOvcHWND', 'Cardinal
12356:   TOvcHdc', 'HDC
12357:   TOvcHWND', 'HWNDF
12358:   Function LoadBaseBitmap( lpBitmapName : PChar) : HBITMAP
12359:   Function LoadBaseCursor( lpCursorName : PChar) : HCURSOR
12360:   Function ovCompStruct( const S1, S2, Size : Cardinal) : Integer
12361:   Function DefaultEpoch : Integer
12362:   Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown:Bool;Style:TButtonStyle):TRect;
12363:   Procedure FixRealPrim( P : PChar; DC : Char)
12364:   Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer) : string
12365:   Function GetLeftButton : Byte
12366:   Function GetNextDlgItem( Ctrl : TOvcHWnd) : hWnd
12367:   Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte)
12368:   Function GetShiftFlags : Byte
12369:   Function ovCreateRotatedFont( F : TFont; Angle : Integer) : hFont
12370:   Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle; Height:Integer;Ctl3D:Boolean): Integer
12371:   Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet) : string
12372:   Function ovIsForegroundTask : Boolean
12373:   Function ovTrimLeft( const S : string) : string
12374:   Function ovTrimRight( const S : string) : string
12375:   Function ovQuotedStr( const S : string) : string
12376:   Function ovWordCount( const S : string; const WordDelims : TCharSet) : Integer
12377:   Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12378:   Function PtrDiff( const P1, P2 : PChar) : Word
12379:   Procedure PtrInc( var P, Delta : Word)
12380:   Procedure PtrDec( var P, Delta : Word)
12381:   Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer)
12382:   Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
  SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer)
12383:   Function ovMinI( X, Y : Integer) : Integer
12384:   Function ovMaxI( X, Y : Integer) : Integer
12385:   Function ovMinL( X, Y : LongInt) : LongInt
12386:   Function ovMaxL( X, Y : LongInt) : LongInt
12387:   Function GenerateComponentName( PF : TWInControl; const Root : string) : string
12388:   Function PartialCompare( const S1, S2 : string) : Boolean

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12389: Function PathEllipsis( const S : string; MaxWidth : Integer) : string
12390: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor) : TBitmap
12391: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas)
12392: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
  TransparentColor : TColor)
12393: Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
  TransparentColor : TColorRef)
12394: Function ovWidthOf( const R : TRect) : Integer
12395: Function ovHeightOf( const R : TRect) : Integer
12396: Procedure ovDebugOutput( const S : string)
12397: Function GetArrowWidth( Width, Height : Integer) : Integer
12398: Procedure StripCharSeq( CharSeq : string; var Str : string)
12399: Procedure StripCharFromEnd( aChr : Char; var Str : string)
12400: Procedure StripCharFromFront( aChr : Char; var Str : string)
12401: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT) : BOOL
12402: Function SystemParametersInfoNCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12403: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT) : BOOL
12404: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer) : HRGN
12405: Function CreateEllipticRgnIndirect( const p1 : TRect) : HRGN
12406: Function CreateFontIndirect( const p1 : TLogFont) : HFONT
12407: Function CreateMetaFile( p1 : PChar) : HDC
12408: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12409: Function DrawText(hdc: HDC;lpString: PChar;nCount: Integer; var lpRect : TRect;uFormat:UINT):Integer
12410: Function DrawTextS(hdc: HDC;lpString: string;nCount: Integer; var lpRect: TRect;uFormat:UINT):Integer
12411: Function SetMapperFlags( DC : HDC; Flag : DWORD) : DWORD
12412: Function SetGraphicsMode( hdc : HDC; iMode : Integer) : Integer
12413: Function SetMapMode( DC : HDC; p2 : Integer) : Integer
12414: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar) : HMETAFILE
12415: //Function SetPaletteEntries(Palette:HPalette;startIndex,NumEntries:UINT;var PaletteEntries):UINT
12416: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF) : COLORREF
12417: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF) : BOOL
12418: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor) : BOOL
12419: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer) : Integer
12420: Function StretchBlt(DestDC: HDC;X,Y,Width,Height:Int;SrcDC: HDC;XSrc,YSrc,SrcWidth,
  SrcHeight:Int;Rop:DWORD):BOOL
12421: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer) : BOOL
12422: Function StretchDIBits(DC : HDC; DestX,DestY,DestWidth,DestHeight,SrcX,SrcY,SrcWidth,
  SrcHeight:Int;Bits:int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : DWORD) : Integer
12423: Function SetROP2( DC : HDC; p2 : Integer) : Integer
12424: Function SetStretchBltMode( DC : HDC; StretchMode : Integer) : Integer
12425: Function SetSystemPaletteUse( DC : HDC; p2 : UINT) : UINT
12426: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer) : Integer
12427: Function SetTextColor( DC : HDC; Color : COLORREF) : COLORREF
12428: Function SetTextAlign( DC : HDC; Flags : UINT) : UINT
12429: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer) : Integer
12430: Function UpdateColors( DC : HDC) : BOOL
12431: Function GetViewportExtEx( DC : HDC; var Size : TSize) : BOOL
12432: Function GetViewportOrgEx( DC : HDC; var Point : TPoint) : BOOL
12433: Function GetWindowExtEx( DC : HDC; var Size : TSize) : BOOL
12434: Function GetWindowOrgEx( DC : HDC; var Point : TPoint) : BOOL
12435: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer) : Integer
12436: Function InvertRgn( DC : HDC; p2 : HRGN) : BOOL
12437: Function MaskBlt(DestDC: HDC; XDest,YDest,Width,Height:Integer; SrcDC : HDC; XScr, YScr : Integer; Mask :
  HBITMAP; xMask, yMask : Integer; Rop : DWORD) : BOOL
12438: Function PlgBlt(DestDC: HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,
  yMask:Int):BOOL;
12439: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer) : Integer
12440: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer) : Integer
12441: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD) : BOOL
12442: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer) : BOOL
12443: Function PlayMetaFile( DC : HDC; MF : HMETAFILE) : BOOL
12444: Function PaintRgn( DC : HDC; RGN : HRGN) : BOOL
12445: Function PtInRegion( RGN : HRGN; X, Y : Integer) : BOOL
12446: Function PtVisible( DC : HDC; X, Y : Integer) : BOOL
12447: Function RectInRegion( RGN : HRGN; const Rect : TRect) : BOOL
12448: Function RectVisible( DC : HDC; const Rect : TRect) : BOOL
12449: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer) : BOOL
12450: Function RestoreDC( DC : HDC; SavedDC : Integer) : BOOL
12451: end;
12452:
12453: procedure SIRegister_ovcfiler(CL: TPSPascalCompiler);
12454: begin
12455:   SIRegister_TOvcAbstractStore(CL);
12456:   //PEXPropInfo', '^TExPropInfo // will not work
12457:   // _TEXPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12458:   SIRegister_TOvcPropertyList(CL);
12459:   SIRegister_TOvcDataFiler(CL);
12460:   Procedure UpdateStoredlist( AForm : TWinControl; AStoredList : TStrings; FromForm : Boolean)
12461:   Procedure UpdateStoredlist1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean)
12462:   Function CreateStoredItem( const CompName, PropName : string) : string
12463:   Function ParseStoredItem( const Item : string; var CompName, PropName : string) : Boolean
12464:   //Function GetPropType( PropInfo : PExPropInfo) : PTypeInfo
12465: end;
12466:
12467: procedure SIRegister_ovccoco(CL: TPSPascalCompiler);
12468: begin
12469:   'ovsetsize','LongInt'(' 16');
12470:   'etSyntax','LongInt'(' 0');
12471:   'etSymantic','LongInt'(' 1');

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12472: 'chCR','Char #13);
12473: 'chLF','Char #10);
12474: 'chLineSeparator','chCR);
12475: SIRegister_TCocoError(CL);
12476: SIRegister_TCommentItem(CL);
12477: SIRegister_TCommentList(CL);
12478: SIRegister_TSymbolPosition(CL);
12479: TGenListType', '( glNever, glAlways, glOnError )
12480: TovBitSet', 'set of Integer
12481: //PStartTable', '^TStartTable // will not work
12482: 'TovCharSet', 'set of AnsiChar
12483: TAAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12484: TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList)
12485: TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12486: TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12487: TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolB'
12488: +'osition; const Data : string; ErrorType : integer)
12489: TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12490: TGetCH', 'Function ( pos : longint ) : char
12491: TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12492: SIRegister_TCocoRScanner(CL);
12493: SIRegister_TCocoRGrammar(CL);
12494: '_EF','Char #0);
12495: '_TAB','Char').SetString( #09);
12496: '_CR','Char').SetString( #13);
12497: '_LF','Char').SetString( #10);
12498: '_EL','').SetString( _CR);
12499: '_EOF','Char').SetString( #26);
12500: 'LineEnds','TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12501: 'minErrDist','LongInt'( 2);
12502: Function ovPadL( S : string; ch : char; L : integer ) : string
12503: end;
12504:
12505: TFormatSettings = record
12506:   CurrencyFormat: Byte;
12507:   NegCurrFormat: Byte;
12508:   ThousandSeparator: Char;
12509:   DecimalSeparator: Char;
12510:   CurrencyDecimals: Byte;
12511:   DateSeparator: Char;
12512:   TimeSeparator: Char;
12513:   ListSeparator: Char;
12514:   CurrencyString: string;
12515:   ShortDateFormat: string;
12516:   LongDateFormat: string;
12517:   TimeAMString: string;
12518:   TimePMString: string;
12519:   ShortTimeFormat: string;
12520:   LongTimeFormat: string;
12521:   ShortMonthNames: array[1..12] of string;
12522:   LongMonthNames: array[1..12] of string;
12523:   ShortDayNames: array[1..7] of string;
12524:   LongDayNames: array[1..7] of string;
12525:   TwoDigitYearCenturyWindow: Word;
12526: end;
12527:
12528: procedure SIRegister_OvcFormatSettings(CL: TPPascalCompiler);
12529: begin
12530:   Function ovFormatSettings : TFormatSettings
12531: end;
12532:
12533: procedure SIRegister_ovcstr(CL: TPPascalCompiler);
12534: begin
12535:   TOvcCharSet', 'set of Char
12536:   ovBTable', 'array[0..255] of Byte
12537:   //BTable = array{${IFDEF UNICODE}{$ELSE}{$ENDIF}{$ELSE}{$ENDIF}} of Byte;
12538:   Huge_UNICODE_BMTABLE$FFFF{$ELSE}{$ENDIF}{$ELSE}{$ENDIF} of Byte;
12539:   Function BinaryBPChar( Dest : PChar; B : Byte ) : PChar
12540:   Function BinaryLPChar( Dest : PChar; L : LongInt ) : PChar
12541:   Function BinaryWPChar( Dest : PChar; W : Word ) : PChar
12542:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable )
12543:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable;MatchString:PChar;var Pos:Cardinal):Bool;
12544:   Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12545:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12546:   Function DetabPChar( Dest : PChar; Src : PChar; TabSize : Byte ) : PChar
12547:   Function HexBPChar( Dest : PChar; B : Byte ) : PChar
12548:   Function HexLPChar( Dest : PChar; L : LongInt ) : PChar
12549:   Function HexWPChar( Dest : PChar; W : Word ) : PChar
12550:   Function LoCaseChar( C : Char ) : Char
12551:   Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar
12552:   Function StrChDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12553:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal ) : PChar
12554:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12555:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word)
12556:   Function StrStCopy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12557:   Function StrStDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12558:   Function StrStInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12559:   Function StrStInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar

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12560: Function StrStPos( P, S : PChar; var Pos : Cardinal ) : Boolean
12561: Function StrToInt64( S : PChar; var I : Int64 ) : Boolean
12562: Procedure TrimAllSpacesPChar( P : PChar )
12563: Function TrimEmbeddedZeros( const S : string ) : string
12564: Procedure TrimEmbeddedZerosPChar( P : PChar )
12565: Function TrimTrailPrimPChar( S : PChar ) : PChar
12566: Function TrimTrailPChar( Dest, S : PChar ) : PChar
12567: Function TrimTrailingZeros( const S : string ) : string
12568: Procedure TrimTrailingZerosPChar( P : PChar )
12569: Function UpCaseChar( C : Char ) : Char
12570: Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet ) : Boolean
12571: Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12572: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal ) : Boolean,
12573: end;
12574:
12575: procedure SIRegister_AfUtils(CL: TPPascalCompiler);
12576: begin
12577:   //PRaiseFrame', '^TRaiseFrame // will not work
12578:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12579:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12580:   Procedure SafeCloseHandle( var Handle : THandle )
12581:   Procedure ExchangeInteger( X1, X2 : Integer )
12582:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12583:   Function LongMulDiv( Multi, Mult2, Div1 : Longint ) : Longint
12584:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12585:
12586:   FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12587:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12588:   function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12589:     function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12590:                                         HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12591:                                         SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12592:                                         const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12593:                                         var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12594:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12595:                                         HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12596:                                         SecurityDescriptor: PSecurityDescriptor; PrincipalsSelfSid: PSID; DesiredAccess: DWORD;
12597:                                         AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12598:                                         ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12599:                                         var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12600:   function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLOChar;
12601:                                         HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12602:                                         SecurityDescriptor: PSecurityDescriptor; PrincipalsSelfSid: PSID; DesiredAccess: DWORD;
12603:                                         AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12604:                                         ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12605:                                         var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12606:   function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12607:   function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12608:   function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12609:                               lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;
12610:                               lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12611:                               dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLOChar;
12612:                               const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12613:   function GetCurrentHwProfile(var lpHwProfileInfo: THWProfileInfo): BOOL; stdcall;
12614:   function GetFileSecurity(lpFileName: PKOLOChar; RequestedInformation: SECURITY_INFORMATION;
12615:                           pSecurityDescriptor: PSecurityDescriptor; nLength:DWORD; var lpnLengthNeeded: DWORD):BOOL; stdcall;
12616:   function GetUserName(lpBuffer: PKOLOChar; var nSize: DWORD): BOOL; stdcall;
12617:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLOChar;
12618:                                   dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12619:   function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLOChar;
12620:                       dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12621:   function LookupAccountName(lpSystemName, lpAccountName: PKOLOChar;
12622:                             Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLOChar;
12623:                             var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12624:   function LookupAccountSid(lpSystemName: PKOLOChar; Sid: PSID;
12625:                           Name: PKOLOChar; var cbName: DWORD; ReferencedDomainName: PKOLOChar;
12626:                           var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12627:   function LookupPrivilegeDisplayName(lpSystemName, lpLanguageId: DWORD): BOOL; stdcall;
12628:   lpDisplayName: PKOLOChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12629:   function LookupPrivilegeName(lpSystemName: PKOLOChar;
12630:                                var lpLuid: TLargeInteger; lpName: PKOLOChar; var cbName: DWORD): BOOL; stdcall;
12631:   function LookupPrivilegeValue(lpSystemName, lpName: PKOLOChar;
12632:                                 var lpLuid: TLargeInteger): BOOL; stdcall;
12633:   function ObjectCloseAuditAlarm(SubsystemName: PKOLOChar; HandleId: Pointer;
12634:                                 HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12635:   function ObjectDeleteAuditAlarm(SubsystemName: PKOLOChar;
12636:                                 HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12637:   function ObjectOpenAuditAlarm(SubsystemName: PKOLOChar; HandleId: Pointer;
12638:                                 ObjectTypeName: PKOLOChar; ObjectName: PKOLOChar; pSecurityDescriptor: PSecurityDescriptor;
12639:                                 ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12640:                                 var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12641:                                 var GenerateOnClose: BOOL): BOOL; stdcall;
12642:   function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLOChar;
12643:                                     HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12644:                                     var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12645:   function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLOChar): THandle; stdcall;
12646:   function OpenEventLog(lpUNCServerName, lpSourceName: PKOLOChar): THandle; stdcall;
12647:   function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLOChar;
12648:                                         ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;

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12649:     function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12650:         lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12651:         var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD): BOOL; stdcall;
12652:     function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12653:         var phkResult: HKEY): Longint; stdcall;
12654:     function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12655:         var phkResult: HKEY): Longint; stdcall;
12656:     function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12657:         Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12658:         lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12659:         lpdwDisposition: PDWORD): Longint; stdcall;
12660:     function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12661:     function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12662:     function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12663:         var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12664:         lpcbClass: PDWORD; lpftLastWriteTime: PFILETIME): Longint; stdcall;
12665:     function RegEnumKey(hKey:HKEY; dwIndex:DWORD; lpName:PKOLChar; cbName:DWORD):Longint;stdcall;
12666:     function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12667:         var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12668:         lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12669:     function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12670:     function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12671:     function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12672:         ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12673:     function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLchar;
12674:         lpcbClass: PDWORD; lpReserved: Pointer;
12675:         lpcbSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpcValues,
12676:         lpcbMaxNameLen, lpcbMaxValueLen, lpcbSecurityDescriptor: PDWORD;
12677:         lpftLastWriteTime: PFILETIME): Longint; stdcall;
12678:     function RegQueryMultipleValues(hKey: HKEY; var Vallist;
12679:         NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotsize: DWORD): Longint; stdcall;
12680:     function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12681:         lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12682:     function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12683:         lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12684:     function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12685:         lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12686:     function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12687:     function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12688:         lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12689:     function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12690:         dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12691:     function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12692:         Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12693:     function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12694:     function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12695:     function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12696:         dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12697:         dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12698:     function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12699:         pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12700:
12701:     Function wAddAtom( lpString : PKOLchar ) : ATOM
12702:     Function wBeginUpdateResource( pFileName : PKOLchar; bDeleteExistingResources : BOOL ) : THandle
12703:     //Function wCallNamedPipe( lpNamedPipeName : PKOLchar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12704:     lpOutBuffer : Pointer; nOutBufferSize : DWORD; var lpBytesRead : DWORD; nTimeOut : DWORD ) : BOOL
12705:     //Function wCommConfigDialog( lpszName : PKOLchar; hWnd : HWND; var lpCC : TCommConfig ) : BOOL
12706:     Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLchar; cchCount1 : Integer;
12707:         lpString2 : PKOLchar; cchCount2 : Integer ) : Integer
12708:     Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLchar; bFailIfExists : BOOL ) : BOOL
12709:     //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLchar; lpProgressRoutine :
12710:         TFnProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD ) : BOOL
12711:     Function wCreateDirectory( lpPathName : PKOLchar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12712:     Function wCreateDirectoryEx(lpTemplateDirectory,
12713:         lpNewDirectory:PKOLchar;lpSecAttrib:PSecurityAttribs):BOOL;
12714:     Function wCreateEvent( lpEventAttribs:PSecurityAttrib/bManualReset,
12715:         bInitialState:BOOL;lpName:PKOLchar):THandle;
12716:     Function wCreateFile( lpFileName : PKOLchar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes : PSecurityAttributes;
12717:         dwCreationDisposition, dwFlagsAndAttributes:DWORD;hTemplateFile:THandle ):THandle
12718:     Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; fProtect,
12719:         dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLchar ) : THandle
12720:     Function wCreateHardLink(lpFileName,
12721:         lpExistingFileName:PKOLchar;lpSecurityAttributes:PSecurityAttributes):BOOL
12722:     Function CreateMailslot(lpName:PKOLchar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes):THandle;
12723:     Function wCreateNamedPipe( lpName : PKOLchar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
12724:         nInBufferSize, nDefaultTimeOut : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12725:     //Function CreateProcess( lpApplicationName : PKOLchar; lpCommandLine : PKOLchar; lpProcessAttributes,
12726:     lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
12727:     Pointer;lpCurrentDirectory:PKOLchar;const lpStartupInfo:TStartupInfo;var
12728:     lpProcessInfo:TProcessInformation):BOOL
12729:     Function wCreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
12730:         Longint; lpName : PKOLchar ) : THandle
12731:     Function wCreateWaitableTimer(lpTimerAttribs:PSecurityAttribs;bManualReset:BOOL;lpTimerName:PKOLchar):THandle;
12732:     Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLchar ) : BOOL
12733:     Function wDeleteFile( lpFileName : PKOLchar ) : BOOL
12734:     Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12735:     //Function
12736:     wEnumCalendarInfo(lpCalInfEnumProc:TFNCalInfEnumProc;Locale:LCID;Calendar:CALID;CalType:CALTYPE):BOOL;

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12723: //Function wEnumDateFormats( lpDateFormatEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD) : BOOL
12724: //Function
12725: wEnumResourceNames( hModule: HMODULE; lpType: PKOLChar; lpEnumFunc: ENUMRESNAMEPROC; lParam: Longint) : BOOL;
12726: //Function wEnumResourceTypes( hModule: HMODULE; lpEnumFunc: ENUMRESTYPEPROC; lParam: Longint) : BOOL;
12727: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCODEPAGEENUMPROC; dwFlags : DWORD) : BOOL
12728: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLOCALEENUMPROC; dwFlags : DWORD) : BOOL
12729: Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD) : DWORD
12730: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar)
12731: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
12732: dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD) : BOOL
12733: Function
12734: wFindFirstChangeNotification( lpPathName:PKOLChar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD):THandle;
12735: Function wFindFirstFile( lpFileName : PKOLChar; var lpFindFileData : TWIN32FindData) : THandle
12736: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFINDEXINFOLEVELS; lpFindFileData :
12737: Pointer; fSearchOp : TFINDEXSEARCHOPS; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD) : BOOL
12738: Function wFindNextFile( hFindFile : THandle; var lpFindFileData : TWIN32FindData) : BOOL
12739: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar) : HRSRC
12740: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word) : HRSRC
12741: Function wFoldString(dwMapFlags:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Integer):Integer;
12742: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
12743: DWORD; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer) : DWORD
12744: Function wFreeEnvironmentStrings( EnvBlock : PKOLChar) : BOOL
12745: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer) : UINT
12746: Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD) : BOOL
12747: Function wGetCommandLine : PKOLChar
12748: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD) : DWORD
12749: Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD) : BOOL
12750: Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD) : DWORD
12751: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
12752: PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer) : Integer
12753: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar) : DWORD
12754: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar,
12755: lpDateStr : PKOLChar; cchDate : Integer) : Integer
12756: //Function wGetDefaultCommConfig( lpszName:PKOLChar;var lpCC : TCommConfig;var lpdwSize:DWORD):BOOL
12757: Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector,
12758: lpNumberofFreeClusters, lpTotalNumberOfClusters : DWORD) : BOOL
12759: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
12760: lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLARGE_INTEGER) : BOOL
12761: Function wGetDriveType( lpRootPathName : PKOLChar) : UINT
12762: Function wGetEnvironmentStrings : PKOLChar
12763: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD) : DWORD
12764: Function wGetFileAttributes( lpFileName : PKOLChar) : DWORD
12765: //Function
12766: Function wGetFileAttributesEx( lpFileName:PKOLChar,fInfoLevelId:TGetFileExInfoLevs;lpFileInform:Pointer):BOOL;
12767: Function wGetFullPathName(lpFileName:PKOLChar;nBufferLeng:WORD;lpBuffer:PKOLChar;var
12768: lpFilePart:PKOLChar):DWORD;
12769: //Function wGetLocaleInfo(Locale:LCID; LCTYPE:LCTYPE;lpLCDATA:PKOLChar;cchData:Integer): Integer
12770: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar) : DWORD
12771: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLChar; nSize : DWORD) : DWORD
12772: Function wGetModuleHandle( lpModuleName : PKOLChar) : HMODULE
12773: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
12774: lpCollectDataTimeout : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD) : BOOL
12775: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt,
12776: lpNumberStr : PKOLChar; cchNumber : Integer) : Integer
12777: Function wGetPrivateProfileInt(lpAppName,lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar):UINT;
12778: Function wGetPrivateProfileSection(lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD/pFileName:PKOLChar):DWORD;
12779: Function wGetPrivateProfileString( lpAppName, lpKeyName, lpDefault : PKOLChar;lpReturnedStr: PKOLChar;
12780: nSize:DWORD; lpFileName : PKOLChar) : DWORD
12781: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer) : UINT
12782: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD) : DWORD
12783: Function wGetProfileString(lpAppName,lpKeyName,
12784: lpDefault:PKOLChar;lpReturnedStr:PKOLChar;nSize:DWORD):DWORD;
12785: Function wGetShortPathName( lpszLongPath:PKOLChar;lpszShortPath: PKOLChar; cchBuffer : DWORD) : DWORD
12786: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo)
12787: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer;var
12788: lpCharType):BOOL
12789: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT) : UINT
12790: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar):UINT
12791: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar) : DWORD
12792: //Function
12793: wGetTimeFormat(Loc:LCID;dwFlgs:DWORD;lpTime:PSystemTime;lpFrm:PKOLChar;lpTimeStr:PKOLChar;cTime:Int):Int
12794: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo) : BOOL
12795: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
12796: : DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
12797: lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD) : BOOL
12798: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT) : UINT
12799: Function wGlobalAddAtom( lpString : PKOLChar) : ATOM
12800: Function wGlobalFindAtom( lpString : PKOLChar) : ATOM
12801: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer) : UINT
12802: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UInt) : BOOL
12803: Function
12804: wLCMapString(Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int;
12805: Function wLoadLibrary( lpLibFileName : PKOLChar) : HMODULE
12806: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD) : HMODULE

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12790: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12791: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12792: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12793: TFnProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12794: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName: PKOLChar ) : THandle
12795: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar):THandle
12796: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12797: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar):THandle
12798: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12799: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
12800: lpNumberOfEventsRead:DWORD):BOOL;
12801: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12802: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12803: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
12804: lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12805: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
12806: lpNumbOfEventsRead:DWORD):BOOL;
12807: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
12808: : TCoord; var lpReadRegion : TSmallRect ) : BOOL
12809: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12810: DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12811: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12812: //Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
12813: lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12814: Function wSearchPath( lpPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
12815: lpFilePart:PKOLChar):DWORD;
12816: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12817: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12818: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12819: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12820: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12821: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12822: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDData : PKOLChar ) : BOOL
12823: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12824: //Function wUpdateResource(hUpdate:THandle;lpType,
12825: lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12826: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12827: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12828: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite :
12829: DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12830: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
12831: var lpNumberOfEventsWritten : DWORD ) : BOOL
12832: //Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
12833: TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12834: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12835: DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12836: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12837: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12838: Function wWriteProfileSection( lpAppName, lpString : PKOLChar ) : BOOL
12839: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12840: Function wlstrcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12841: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12842: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12843: Function wlstrcpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12844: Function wlstrcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12845: Function wlstrlen( lpString : PKOLChar ) : Integer
12846: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruc :
12847: PNetConnectInfoStruc ) : DWORD
12848: //Function wNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
12849: lpUserName:PKOLChar;dwFlags:DWORD):DWORD;
12850: //Function wNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
12851: lpUserName:PKOLChar; dwFlags : DWORD ) : DWORD
12852: Function wNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12853: Function wNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12854: Function wNetCancelConnection( lpName : PKOLChar; fForce : BOOL ) : DWORD
12855: //Function wNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12856: //Function wNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12857: //Function wNetEnumResource(hEnum:THandle;var lpcCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12858: Function wNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD):DWORD;
12859: Function wNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
12860: : PKOLChar; nNameBufSize : DWORD ) : DWORD
12861: //Function wNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12862: Function wNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12863: //Function wNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12864: //Function wNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
12865: lpBufferSize:DWORD):DWORD;
12866: Function wNet GetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12867: // Function wNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetRes,var lphEnum:THandle):DWORD;
12868: // Function wNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD
12869: //Function wNetUseConnection(hwndOwner:HWND;var
12870: lpNetResource:TNetResource;lpUserID:PKOLChar;lpPassword:PKOLChar; dwFlags:DWORD;lpAccessName:PKOLChar;var
12871: lpBufferSize:DWORD;var lpResult:DWORD):DWORD
12872: Function wFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12873: Function wFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12874: Function wVerFindFile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
12875: lpuCurDirLen : UInt; szDestDir : PKOLChar; var lpuDestDirLen : UInt ) : DWORD
12876: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
12877: szTmpFile : PKOLChar; var lpuTmpFileLen : UInt ) : DWORD

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12857: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12858: //Func wGetPrivateProfileStruct(lpszSection,
12859:   lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12860: //Func wWritePrivateProfileStruct(lpszSection,
12861:   lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12862: Function wAddFontResource(FileName : PKOLChar) : Integer
12863: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector) : Integer
12864: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar) : HENHMETAFILE
12865: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace) : HCOLORSPACE
12866: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar) : HDC
12867: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic,
12868:   fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQuality,
12869:   fdwPitchAndFamily:DWORD;lpszFace:PKOLChar):HFONT;
12870: Function wCreateFontIndirect( const p1 : TLogFont) : HFONT
12871: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV) : HFONT
12872: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpDvmInit : PDeviceMode) : HDC
12873: Function wCreateMetaFile( p1 : PKOLChar) : HDC
12874: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar) : BOOL
12875: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
12876:   pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int;
12877: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFnFontEnumProc; p4 : LPARAM) : BOOL
12878: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TFnFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12879: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fnenmprc:TFnFontEnumProc;lpszData:PKOLChar):Integer;
12880: //Function wEnumICMPProfiles( DC : HDC; ICMPProc : TFnICMEnumProc; p3 : LPARAM) : Integer
12881: //Function wExtTextOut(dc:HDC;x,
12882:   Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12883:   //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs) : BOOL
12884:   //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatStructs) : BOOL
12885:   //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12886:   //Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12887:   //Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12888:   Function wGetEnhMetaFile( p1 : PKOLChar) : HENHMETAFILE
12889:   Function wGetEnhMetaFileDescription( p1 : HENHMETAFILE; p2 : UINT; p3 : PKOLChar) : UINT
12890:   //Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD) : BOOL
12891:   Function wGetMetaFile( p1 : PKOLChar) : HMETAFILE
12892:   //Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer) : Integer
12893:   //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer) : UINT
12894:   //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSize):BOOL
12895:   Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize) : BOOL
12896:   Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize) : BOOL
12897:   Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar) : Integer
12898:   //Function wGetTextMetrics( DC : HDC; var TM : TTTextMetric) : BOOL
12899:   Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer) : BOOL
12900:   Function wRemoveFontResource( FileName : PKOLChar) : BOOL
12901:   //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector) : BOOL
12902:   //Function wResetDC( DC : HDC; const InitData : TDeviceMode) : HDC
12903:   Function wSetICMPProfile( DC : HDC; Name : PKOLChar) : BOOL
12904:   //Function wStartDoc( DC : HDC; const p2 : TDocInfo) : Integer
12905:   Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer) : BOOL
12906:   Function wUpdateICMRegKey( p1 : DWORD; p2 : PKOLChar; p4 : UINT) : BOOL
12907:   Function wwglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD) : BOOL
12908:   //Function wwglUseFontOutlines(p1:HDC; p2,p3,p4:WORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL
12909:   Function wAppendMenu( hMenu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar) : BOOL
12910:   Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer) : BOOL
12911:   //Function
12912:   wCallWindowProc(lpPrevWndFunc:TFNWndProc,hWnd:HWND,Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12913:   //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD) : Longint
12914:   // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar;var lpDevMode : TDeviceMode; wnd : HWND;
12915:   dwFlags : DWORD; lParam : Pointer) : Longint
12916:   Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12917:   Function wCharLower( lpsz : PKOLChar) : PKOLChar
12918:   Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD) : DWORD
12919:   Function wCharNext( lpsz : PKOLChar) : PKOLChar
12920:   //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD) : LPSTR
12921:   Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar) : BOOL
12922:   Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD) : BOOL
12923:   Function wCharUpper( lpsz : PKOLChar) : PKOLChar
12924:   Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD) : DWORD
12925:   Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer) : Integer
12926:   Function wCreateAcceleratorTable( var Accel, Count : Integer) : HACCEL
12927:   //Function wCreateDesktop(lpszDesktop,
12928:   lpszDevice:PKOLChar;pDevMode:PDeviceMode;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttrs):HDESK
12929:   //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
12930:   HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM) : HWND
12931:   //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
12932:   lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM) : HWND
12933:   Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
12934:   hWndParent : HWND; hInstance : HINST; lParam : LPARAM) : HWND
12935:   //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle DWORD;X,Y,
12936:   nWidth, nHeight:Int WndParent:HWND;hMenu:HMENU;hInstance:HINST;lpParam:Pointer):HWND

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12932: //Function wCreateWindowStation(lpwinsta:PKOLChar,dwReserv,
12933: dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12934: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12935: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12936: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12937: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12938: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
12939: : HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12940: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
12941: : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12942: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12943: Function wDlgDirList( hDlg:HWND;lpPathSpec:PKOLChar;nIDListBox,
nIDStaticPath:Integer;uFileType:UINT):Integer;
12944: Function wDlgDirListComboBoxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer) : BOOL
12945: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12946: //Function wDrawState(DC:HDC;Brush:HBRUSH;CBFunc:TFNDrawStateProc;lData:LPARA;wDat:WPARA;x,y,cx,
12947: cy:Int;Flags:UINT):BOOL;
12948: Function wDrawText(hdc:HDC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT):Integer;
12949: //Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass ) : BOOL
12950: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx ) : BOOL
12951: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12952: Function wGetClassName( hWnd : HWND; lpClassName : PKOLChar; nMaxCount : Integer ) : Integer
12953: Function wGetClipboardFormatName( format : UINT; lpszFormatName:PKOLChar;cchMaxCount:Integer):Integer;
12954: Function wGetDlgItemText( hDlg : HWND;nIDDlgItem:Integer;lpString:PKOLChar;nMaxCount:Integer):UINT
12955: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer ) : Integer
12956: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar ) : BOOL
12957: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo ) : BOOL
12958: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer
12959: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
12960: Function wGetProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12961: //Function wGetTabbedTextExtent( hdc : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
12962: lpnTabStopPositions ) : DWORD
12963: //Function wGetObjectInform(hObj:THandle;nIndex:Int;pvInfo:Ptr;nLength:DWORD;var
12964: lpnLengthNeed:DWORD):BOOL;
12965: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
12966: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UINT ) : UINT
12967: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12968: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12969: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12970: Function wIsCharAlpha( ch : KOLChar ) : BOOL
12971: Function wIsCharAlphaNumeric( ch : KOLChar ) : BOOL
12972: Function wIsCharLower( ch : KOLChar ) : BOOL
12973: Function wIsCharUpper( ch : KOLChar ) : BOOL
12974: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12975: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
12976: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar ) : HBITMAP
12977: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12978: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12979: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
12980: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
12981: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
12982: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
12983: //Function wLoadMenuItemDirect( lpMenuTemplate : Pointer ) : HMENU
12984: Function wLoadString(hInstance:HINST;uID:UINT;lpBuffer:PKOLChar;nBufferMax:Integer):Integer
12985: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
12986: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwhkl : HKL ) : UINT
12987: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
12988: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12989: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
12990: Function wModifyMenu( hMnu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12991: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
12992: //7Function wOemToAnsiBuff( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
12993: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12994: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12995: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD): HDESK
12996: Function wOpenWindowStation( lpszWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD): HWINSTA
12997: Function wPeekMessage( var lpMsg : TMsg; hWnd: HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT ):BOOL
12998: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12999: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
13000: Function wRealGetWindowClass( hWnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
13001: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
13002: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
13003: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
13004: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
13005: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
13006: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle
13007: Function wSendDlgItemMessage(hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13008: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
13009: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
13010: lpResultCallBack : TFNSendAsyncProc; dwData : DWORD ) : BOOL

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13010: Function wSendDlgItemText( hWnd:HWND; nIndex:Integer; lpString:PKOLChar; hData:THandle) : BOOL
13011: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM; fuFlags,uTimeout:UINT;var lpdwResult:DWORD) : LRESULT
13012: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : DWORD
13013: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar ) : BOOL
13014: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
13015: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
13016: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
13017: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
13018: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
13019: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFnHookProc ) : HHOOK
13020: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
13021: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni: UINT):BOOL
13022: Function wTabbedTextOut(hdc:HDC;x,y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var lpnTabStopPositions,nTabOrigin:Int):Longint;
13023: Function wTrackAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
13024: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
13025: Function wVKeyScan( ch : KOLchar ) : SHORT
13026: Function wVKeyScanEx( ch : KOLchar; dwhkl : HKL ) : SHORT
13027: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
13028: Function wwsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
13029: Function wwwsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
13030:
13031: //TestDrive!
13032: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL'
13033: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString( 'ConvertSidToStringSidA'
13034: Function GetDomainUserSids(const domainName:String;const userName:String; var foundDomain:String):String;
13035: Function GetLocalUserSidStr( const UserName : string ) : string
13036: Function getPid4User( const domain : string; const user : string; var pid : dword ) : boolean
13037: Function Impersonate2User( const domain : string; const user : string ) : boolean
13038: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
13039: Function KillProcessbyname( const exename : string; var found : integer ) : integer
13040: Function getWinProcessList : TStringList
13041: function WaitTilClose(hWnd: Integer): Integer;
13042: function DoUserMsgs: Boolean;
13043: function MsgFunc(hWnd,Msg,wParam,lParam:Integer):Integer; stdcall;
13044: procedure ShowMsg(hParent: Integer; const Mess, Title: String); //modal but NOT blockable
13045: procedure DeleteMsgForm(Handle: Integer);
13046: procedure DisableForms;
13047: function FoundTopLevel(hWnd, LParam: Integer): BOOL; stdCall;
13048: end;
13049:
13050: procedure SIRegister_AfSafeSync(CL: TPPascalCompiler);
13051: begin
13052: 'AfMaxSyncSlots','LongInt'( 64 );
13053: 'AfSynchronizeTimeout','LongInt'( 2000 );
13054: TafSyncSlotID', 'DWORD
13055: TAfSyncStatistics', 'record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end';
13056: TAfSafeSyncEvent', 'Procedure ( ID : TAfSyncSlotID )
13057: TAfSafeDirectSyncEvent', 'Procedure
13058: Function AfNewSyncSlot( const AEvent : TAfSafeSyncEvent ) : TAfSyncSlotID
13059: Function AfReleaseSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13060: Function AfEnableSyncSlot( const ID : TAfSyncSlotID; Enable : Boolean ) : Boolean
13061: Function AfValidateSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13062: Function AfSyncEvent( const ID : TAfSyncSlotID; Timeout : DWORD ) : Boolean
13063: Function AfDirectSyncEvent( Event : TAfSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
13064: Function AfIsSyncMethod : Boolean
13065: Function AfSyncWnd : HWnd
13066: Function AfSyncStatistics : TAfSyncStatistics
13067: Procedure AfClearSyncStatistics
13068: end;
13069:
13070: procedure SIRegister_AfComPortCore(CL: TPPascalCompiler);
13071: begin
13072: 'fBinary','LongWord')($00000001);
13073: 'fParity','LongWord')($00000002);
13074: 'fOutxCtsFlow','LongWord').SetUInt($00000004);
13075: 'fOutxDsrFlow','LongWord')($00000008);
13076: 'fDtrControl','LongWord')($00000030);
13077: 'fDtrControlDisable','LongWord')($00000000);
13078: 'fDtrControlEnable','LongWord')($00000010);
13079: 'fDtrControlHandshake','LongWord')($00000020);
13080: 'fDsrsensitivity','LongWord')($00000040);
13081: 'fTxCContinueOnXoff','LongWord')($00000080);
13082: 'fOutX','LongWord')($000000100);
13083: 'fInX','LongWord')($00000200);
13084: 'fErrorChar','LongWord')($00000400);
13085: 'fNull','LongWord')($00000800);
13086: 'fRtsControl','LongWord')($00003000);
13087: 'fRtsControlDisable','LongWord')($00000000);
13088: 'fRtsControlEnable','LongWord')($00001000);
13089: 'fRtsControlHandshake','LongWord')($00002000);
13090: 'fRtsControlToggle','LongWord')($00003000);
13091: 'fAbortOnError','LongWord')($00004000);
13092: 'fDummy2','LongWord')($FFFF8000);
13093: TAfCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13094: FindClass('TOBJECT'), 'TAfComPortCoreError
13095: FindClass('TOBJECT'), 'TAfComPortCore
13096: TAfComPortCoreEvent', 'Procedure ( Sender : TAfComPortCore; Even'

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13097:   +'tKind : TAfCoreEvent; Data : DWORD)
13098:   SIRегистre_TAfComPortCoreThread(CL);
13099:   SIRегистre_TAfComPortEventThread(CL);
13100:   SIRегистre_TAfComPortWriteThread(CL);
13101:   SIRегистre_TAfComPortCore(CL);
13102:   Function FormatDeviceName( PortNumber : Integer ) : string
13103: end;
13104:
13105: procedure SIRегистre_ApplicationFileIO(CL: TPSPascalCompiler);
13106: begin
13107:   TAFIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13108:   TAFIOFileStreamExistsEvent', 'Function ( const fileName : String ) : Boolean
13109:   SIRегистre_TApplicationFileIO(CL);
13110:   TDataFileCapability', '( dfcRead, dfcWrite )
13111:   TDataFileCapabilities', 'set of TDataFileCapability
13112:   SIRегистre_TDataFile(CL);
13113: //TDataFileClass', 'class of TDataFile
13114:   Function ApplicationFileIODefined : Boolean
13115:   Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13116:   Function FileStreamExists(const fileName: String) : Boolean
13117: //Procedure Register
13118: end;
13119:
13120: procedure SIRегистre_ALFBXLib(CL: TPSPascalCompiler);
13121: begin
13122:   TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13123:     +', uftCstring, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13124:     +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13125:   TALFBXScale', 'Integer
13126:   FindClass('TOBJECT'), 'EALFBXConvertError
13127:   SIRегистre_EALFBXError(CL);
13128:   SIRегистre_EALFBXException(CL);
13129:   FindClass('TOBJECT'), 'EALFBXGFixError
13130:   FindClass('TOBJECT'), 'EALFBXDSQLError
13131:   FindClass('TOBJECT'), 'EALFBXDynError
13132:   FindClass('TOBJECT'), 'EALFBXBakError
13133:   FindClass('TOBJECT'), 'EALFBXGSecError
13134:   FindClass('TOBJECT'), 'EALFBXLicenseError
13135:   FindClass('TOBJECT'), 'EALFBXGStatError
13136: //EALFBXExceptionClass', 'class of EALFBXError
13137: TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13138:   +'37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13139:   +'csEUCL_0208, csGB_2312, csISO8859_1, csKSC_5601, csNEXT, csOC'
13140:   +'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13141:   +' csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13142:   +'sDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13143:   +'_4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13144:   +'8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13145:   TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13146:   +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13147:   +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13148:   +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13149:   TALFBXTransParams', 'set of TALFBXTransParam
13150:   Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13151:   Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13152:   Function ALFBXCreatet BlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13153:   'CALFBXMaxLength', 'LongInt'( 125 );
13154:   TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13155:   TALFBXParamsFlags', 'set of TALFBXParamsFlag
13156: //PALFBXSQLVar', '^PALFBXSQLVar // will not work
13157: //PALFBXSQLDaData', '^PALFBXSQLDaData // will not work
13158: TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete, '
13159:   +'stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommis'
13160:   +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13161:   SIRегистre_TALFBXSQLDA(CL);
13162: //PALFBXPtrArray', '^PALFBXPtrArray // will not work
13163:   SIRегистre_TALFBXPoolStream(CL);
13164: //PALFBXBlobData', '^PALFBXBlobData // will not work
13165: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13166: //PALFBXArrayDesc', '^PALFBXArrayDesc // will not work
13167: //PALFBXArrayDesc', 'TISCArryDesc
13168: //PALFBXBlobDesc', 'TISCBlobDesc
13169: //PALFBXArrayInfo', '^PALFBXArrayInfo // will not work
13170: //PALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13171:   SIRегистre_TALFBXSQLResult(CL);
13172: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13173:   SIRегистre_TALFBXSQLParams(CL);
13174: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13175: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13176:   +'atementType : TALFBXStatementType; end
13177:   FindClass('TOBJECT'), 'TALFBXLibrary
13178: //PALFBXStatusVector', '^PALFBXStatusVector // will not work
13179: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13180: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13181:   +' Excep : EALFBXExceptionClass )
13182:   SIRегистre_TALFBXLibrary(CL);
13183: 'CALFBXDateOffset', 'LongInt'( 15018 );
13184: 'CALFBXTimeCoef', 'LongInt'( 864000000 );
13185: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double );

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13186: //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp);
13187: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp ) : Double;
13188: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word)
13189: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13190: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp );
13191: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp );
13192: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp );
13193: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer ) : Integer
13194: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord): Cardinal
13195:   'ALFBXPParamType', '( prNone, prByte, prShrt, prCard, prStrg, prLgno )'
13196:   'ALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXPParamType; end'
13197: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13198: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13199: end;
13200:
13201: procedure SIRegister_ALFBXClient(CL: TPSPPascalCompiler);
13202: begin
13203:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13204:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13205:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13206:     +'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13207:     +'teger; First : Integer; CacheThreshold : Integer; end
13208:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13209:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13210:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13211:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13212:     +'_writes : int64; page_fetches : int64; page_marks : int64; end
13213:   SIRegister_TALFBXClient(CL);
13214:   SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13215:   SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13216:   SIRegister_TALFBXConnectionWithStmtPoolContainer(CL);
13217:   SIRegister_TALFBXConnectionWithoutStmtPoolContainer(CL);
13218:   SIRegister_TALFBXReadTransactionPoolContainer(CL);
13219:   SIRegister_TALFBXReadStatementPoolContainer(CL);
13220:   SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13221:   SIRegister_TALFBXConnectionPoolClient(CL);
13222:   SIRegister_TALFBXEventThread(CL);
13223:   Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13224: end;
13225:
13226: procedure SIRegister_ovcBidi(CL: TPSPPascalCompiler);
13227: begin
13228:   _OSVERSIONINFOA = record
13229:     dwOSVersionInfoSize: DWORD;
13230:     dwMajorVersion: DWORD;
13231:     dwMinorVersion: DWORD;
13232:     dwBuildNumber: DWORD;
13233:     dwPlatformId: DWORD;
13234:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13235:   end;
13236:   TOSVersionInfoA', '_OSVERSIONINFOA
13237:   TOSVersionInfo', 'TOSVersionInfoA
13238:   'WS_EX_RIGHT', 'LongWord')($00001000);
13239:   'WS_EX_LEFT', 'LongWord')($00000000);
13240:   'WS_EX_RTLREADING', 'LongWord')($00002000);
13241:   'WS_EX_LTRREADING', 'LongWord')($00000000);
13242:   'WS_EX_LEFTSCROLLBAR', 'LongWord')($00004000);
13243:   'WS_EX_RIGHTSCROLLBAR', 'LongWord')($00000000);
13244:   Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13245:     'LAYOUT_RTL', 'LongWord')($00000001);
13246:     'LAYOUT_BTT', 'LongWord')($00000002);
13247:     'LAYOUT_VBH', 'LongWord')($00000004);
13248:     'LAYOUT_BITMAPORIENTATIONPRESERVED', 'LongWord')($00000008);
13249:     'NOMIRRORBITMAP', 'LongWord')($00000000));
13250:   Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13251:   Function GetLayout( dc : hdc ) : DWORD
13252:   Function IsBidi : Boolean
13253:   Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo ) : BOOL
13254:   Function GetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
13255:   Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD ) : BOOL
13256:   Function GetPriorityClass( hProcess : THandle ) : DWORD
13257:   Function OpenClipboard( hWndNewOwner : HWND ) : BOOL
13258:   Function CloseClipboard : BOOL
13259:   Function GetClipboardSequenceNumber : DWORD
13260:   Function GetClipboardOwner : HWND
13261:   Function SetClipboardViewer( hWndNewViewer : HWND ) : HWND
13262:   Function GetClipboardViewer : HWND
13263:   Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND ) : BOOL
13264:   Function SetClipboardData( uFormat : UINT; hMem : THandle ) : THandle
13265:   Function GetClipboardData( uFormat : UINT ) : THandle
13266:   Function RegisterClipboardFormat( lpszFormat : PChar ) : UINT
13267:   Function CountClipboardFormats : Integer
13268:   Function EnumClipboardFormats( format : UINT ) : UINT
13269:   Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13270:   Function EmptyClipboard : BOOL
13271:   Function IsClipboardFormatAvailable( format : UINT ) : BOOL
13272:   Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer ) : Integer
13273:   Function GetOpenClipboardWindow : HWND
13274:   Function EndDialog( hDlg : HWND; nResult : Integer ) : BOOL

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13275: Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer ) : HWND
13276: Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13277: Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13278: Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar ) : BOOL
13279: Function CheckDlgItem( hDlg : HWND; nIDFirstButton : Integer; lpString : PChar; uCheck : UINT ) : BOOL
13280: Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer ) : BOOL
13281: Function IsDlgItemChecked( hDlg : HWND; nIDButton : Integer ) : UINT
13282: Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13283: end;
13284:
13285: procedure SIRegister_DXPUtils(CL: TPSPPascalCompiler);
13286: begin
13287:   Function glExecuteAndWait( cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool ):Int;
13288:   Function GetTemporaryFilesPath : String
13289:   Function GetTemporaryFileName : String
13290:   Function FindFileInPaths( const fileName, paths : String ) : String
13291:   Function PathsToString( const paths : TStrings ) : String
13292:   Procedure StringToPaths( const pathsString : String; paths : TStrings )
13293:   //Function MacroExpandPath( const aPath : String ) : String
13294: end;
13295:
13296: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPPascalCompiler);
13297: begin
13298:   SIRegister_TALMultiPartBaseContent(CL);
13299:   SIRegister_TALMultiPartBaseContents(CL);
13300:   SIRegister_TALMultiPartBaseStream(CL);
13301:   SIRegister_TALMultiPartBaseEncoder(CL);
13302:   SIRegister_TALMultiPartBaseDecoder(CL);
13303:   Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString ) : AnsiString
13304:   Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13305:   Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13306: end;
13307:
13308: procedure SIRegister_SmallUtils(CL: TPSPPascalCompiler);
13309: begin
13310:   TdriveSize', 'record FreeS : Int64; TotalS : Int64; end
13311:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In-
13312:   +teger; WinMinorVersion :Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13313:   Function aAllocPadedMem( Size : Cardinal ) : TObject
13314:   Procedure aFreePadedMem( var P : TObject );
13315:   Procedure aFreePadedMem1( var P : PChar );
13316:   Function aCheckPadedMem( P : Pointer ) : Byte
13317:   Function aGetPadMemSize( P : Pointer ) : Cardinal
13318:   Function aAllocMem( Size : Cardinal ) : Pointer
13319:   Function aStrLen( const Str : PChar ) : Cardinal
13320:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal ) : PChar
13321:   Function aStrECopy( Dest : PChar; const Source : PChar ) : PChar
13322:   Function aStrCopy( Dest : PChar; const Source : PChar ) : PChar
13323:   Function aStrEnd( const Str : PChar ) : PChar
13324:   Function aStrScan( const Str : PChar; aChr : Char ) : PChar
13325:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal ) : PChar
13326:   Function aPCharLength( const Str : PChar ) : Cardinal
13327:   Function aPCharUpper( Str : PChar ) : PChar
13328:   Function aPCharLower( Str : PChar ) : PChar
13329:   Function aStrCat( Dest : PChar; const Source : PChar ) : PChar
13330:   Function aLastDelimiter( const Delimiters, S : String ) : Integer
13331:   Function aCopyTail( const S : String; Len : Integer ) : String
13332:   Function aInt2Thos( I : Int64 ) : String
13333:   Function aUpperCase( const S : String ) : String
13334:   Function aLowerCase( const S : string ) : String
13335:   Function aCompareText( const S1, S2 : string ) : Integer
13336:   Function aSameText( const S1, S2 : string ) : Boolean
13337:   Function aInt2Str( Value : Int64 ) : String
13338:   Function aStr2Int( const Value : String ) : Int64
13339:   Function aStr2IntDef( const S : string; Default : Int64 ) : Int64
13340:   Function aGetFileExt( const FileName : String ) : String
13341:   Function aGetFilePath( const FileName : String ) : String
13342:   Function aGetFileName( const FileName : String ) : String
13343:   Function aChangeExt( const FileName, Extension : String ) : String
13344:   Function aAdjustLineBreaks( const S : string ) : string
13345:   Function aGetWindowStr( WinHandle : HWND ) : String
13346:   Function aDiskSpace( Drive : String ) : TdriveSize
13347:   Function aFileExists( FileName : String ) : Boolean
13348:   Function aFileSize( FileName : String ) : Int64
13349:   Function aDirectoryExists( const Name : string ) : Boolean
13350:   Function aSysErrorMessage( ErrorCode : Integer ) : string
13351:   Function aShortPathName( const LongName : string ) : string
13352:   Function aGetWindowVer : TWinVerRec
13353:   procedure InitDriveSpacePtr;
13354: end;
13355:
13356: procedure SIRegister_MakeApp(CL: TPSPPascalCompiler);
13357: begin
13358:   aZero', 'LongInt'( 0 );
13359:   'makeappDEF','LongInt'( - 1 );
13360:   'CS_VREDRAW','LongInt'( DWORD ( 1 ) );
13361:   'CS_HREDRAW','LongInt'( DWORD ( 2 ) );
13362:   'CS_KEYCWTWINDOW','LongInt'( 4 );
13363:   'CS_DBLCLKS','LongInt'( 8 );

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13364: 'CS_OWNDC', 'LongWord')($20);
13365: 'CS_CLASSDC', 'LongWord')($40);
13366: 'CS_PARENTDC', 'LongWord')($80);
13367: 'CS_NOKEYCVT', 'LongWord')($100);
13368: 'CS_NOCLOSE', 'LongWord')($200);
13369: 'CS_SAVEBITS', 'LongWord')($800);
13370: 'CS_BYTEALIGNCLIENT', 'LongWord')($1000);
13371: 'CS_BYTEALIGNWINDOW', 'LongWord')($2000);
13372: 'CS_GLOBALCLASS', 'LongWord')($4000);
13373: 'CSIME', 'LongWord')($10000);
13374: 'CS_DROPSHADOW', 'LongWord')($20000);
13375: //TPanelFunc', 'TPanelFunc // will not work
13376: TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13377: TFontLook', '(flBold, flItalic, flUnderLine, flStrikeOut )
13378: TFontLooks', 'set of TFontLook
13379: TMessagefunc', 'function(hWnd,iMsg,wParam,lParam:Integer):Integer)
13380: Function SetWinClass(const ClassName:String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13381: Function SetWinClass0( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13382: Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer) : Word
13383: Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13384: Procedure RunMsgLoop( Show : Boolean)
13385: Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13386: Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int):Int;
13387: Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13388: Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13389: Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13390: Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13391: Function id4menu( a, b : Byte; c : Byte; d : Byte) : Cardinal
13392: Procedure DoInitMakeApp //set first to init formclasscontrol!
13393: end;
13394:
13395: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13396: begin
13397: TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13398: + 'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )'
13399: TScreenSaverOptions', 'set of TScreenSaverOption
13400: 'cDefaultScreenSaverOptions', 'LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13401: TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND)
13402: SIRegister_TScreenSaver(CL);
13403: //Procedure Register
13404: Procedure SetScreenSaverPassword
13405: end;
13406:
13407: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13408: begin
13409: FindClass('TOBJECT'), 'TXCollection
13410: SIRegister_EFilerException(CL);
13411: SIRegister_TXCollectionItem(CL);
13412: //TXCollectionItemClass', 'class of TXCollectionItem
13413: SIRegister_TXCollection(CL);
13414: Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13415: Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13416: Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass)
13417: Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass)
13418: Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13419: Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13420: end;
13421:
13422: procedure SIRegister_XOpenGL(CL: TPSPascalCompiler);
13423: begin
13424: 'TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary)';
13425: Procedure xglMapTexCoordToNull
13426: Procedure xglMapTexCoordToMain
13427: Procedure xglMapTexCoordToSecond
13428: Procedure xglMapTexCoordToDual
13429: Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13430: Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13431: Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13432: Procedure xglBeginUpdate
13433: Procedure xglEndUpdate
13434: Procedure xglPushState
13435: Procedure xglPopState
13436: Procedure xglForbidSecondTextureUnit
13437: Procedure xglAllowSecondTextureUnit
13438: Function xglGetBitWiseMapping : Cardinal
13439: end;
13440:
13441: procedure SIRegister_VectorLists(CL: TPSPascalCompiler);
13442: begin
13443: TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory )
13444: TBaseListOptions', 'set of TBaseListOption
13445: SIRegister_TBaseList(CL);
13446: SIRegister_TBaseVectorList(CL);
13447: SIRegister_TAffineVectorList(CL);
13448: SIRegister_TVectorList(CL);
13449: SIRegister_TTexPointList(CL);

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13450:  SIRegister_TXIntegerList(CL);
13451:  //PSingleArrayList', '^TSingleArrayList // will not work
13452:  SIRegister_TSsingleList(CL);
13453:  SIRegister_TByteList(CL);
13454:  SIRegister_TQuaternionList(CL);
13455:  Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSsingleList; objList : TList );
13456:  Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSsingleList; objList : TBaseList );
13457:  Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSsingleList;objList:TPersistentObjectList);
13458: end;
13459:
13460: procedure SIRegister_MeshUtils(CL: TPSPascalCompiler);
13461: begin
13462:  Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13463:  Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13464:  Procedure ConvertStripToList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13465:  Procedure ConvertIndexedListToList(const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList);
13466:  Function BuildVectorCountOptimizedIndices(const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList ) : TIntegerList
13467:  Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13468:  Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13469:  Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList );
13470:  Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList
13471:  Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList )
13472:  Procedure RemapIndices( indices, indicesMap : TIntegerList )
13473:  Procedure UnifyTrianglesWinding( indices : TIntegerList )
13474:  Procedure InvertTrianglesWinding( indices : TIntegerList )
13475:  Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList
13476:  Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList
edgesTriangles : TIntegerList) : TIntegerList
13477:  Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single )
13478:  Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):TPersistentObjectList;
13479:  Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer )
13480:  Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices : TIntegerList; normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent )
13481: end;
13482:
13483: procedure SIRegister_JclSysUtils(CL: TPSPascalCompiler);
13484: begin
13485:  Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte )
13486:  Procedure FreeMemAndNil( var P : TObject )
13487:  Function PCharOrNil( const S : string ) : PChar
13488:  SIRegister_TJclReferenceMemoryStream(CL);
13489:  FindClass('TOBJECT'), 'EJclVMTError
13490: {Function GetVirtualMethodCount( AClass : TClass ) : Integer
13491: Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13492: Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer )
13493:  PDYNAMICIndexList', '^TDYNAMICIndexList // will not work
13494:  PDYNAMICAddressList', '^TDYNAMICAddressList // will not work
13495:  Function GetDynamicMethodCount( AClass : TClass ) : Integer
13496:  Function GetDynamicIndexList( AClass : TClass ) : PDYNAMICIndexList
13497:  Function GetDynamicAddressList( AClass : TClass ) : PDYNAMICAddressList
13498:  Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean
13499:  Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13500:  Function GetInitTable( AClass : TClass ) : PTTypeInfo
13501:  PFieldEntry', '^TFieldEntry // will not work)
13502:  TFieldEntry', 'record Offset : Integer; IDX : Word; Name : ShortString; end
13503:  Function JIsClass( Address : Pointer ) : Boolean
13504:  Function JIsObject( Address : Pointer ) : Boolean
13505:  Function GetImplementorOfInterface( const I : IInterface ) : TObject
13506:  TdigitCount', 'Integer
13507:  SIRegister_TJclNumericFormat(CL);
13508:  Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString
13509:  TTextHandler', 'Procedure ( const Text : string )
13510: // 'ABORT_EXIT_CODE','LongInt'( ERROR_CANCELLED 1223);
13511:  Function JExecute(const
CommandLine:string;OutputLineCallback:TTTextHandler;RawOutput:Bool;AbortPtr:PBool):Card;
13512:  Function JExecute(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13513:  Function ReadKey : Char //to and from the DOS console !
13514:  TModuleHandle', 'HINST
13515:  //TModuleHandle', 'Pointer
13516:  'INVALID_MODULEHANDLE_VALUE','LongInt'( TModuleHandle ( 0 ) );
13517:  Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13518:  Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13519:  Procedure UnloadModule( var Module : TModuleHandle )
13520:  Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13521:  Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13522:  Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size: Cardinal):Boolean;
13523:  Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13524:  FindClass('TOBJECT'), 'EJclConversionError
13525:  Function JStrToBoolean( const S : string ) : Boolean
13526:  Function JBooleanToStr( B : Boolean ) : string
13527:  Function JIntToBool( I : Integer ) : Boolean
13528:  Function JBoolToInt( B : Boolean ) : Integer
13529:  'ListSeparator','String ';
13530:  'ListSeparator1','String ':
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13531: Procedure ListAddItems( var List : string; const Separator, Items : string)
13532: Procedure ListIncludeItems( var List : string; const Separator, Items : string)
13533: Procedure ListRemoveItems( var List : string; const Separator, Items : string)
13534: Procedure ListDeleteItem( var List : string; const Separator : string; const Index : Integer)
13535: Function ListItemCount( const List, Separator : string) : Integer
13536: Function ListGetItem( const List, Separator : string; const Index : Integer) : string
13537: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13538: Function ListItemIndex( const List, Separator, Item : string) : Integer
13539: Function SystemTOBJECTInstance : LongWord
13540: Function IsCompiledWithPackages : Boolean
13541: Function JJclGUIDToString( const GUID : TGUID) : string
13542: Function JJclStringToGUID( const S : string) : TGUID
13543: SIRegister_TJclIntfCriticalSection(CL);
13544: SIRegister_TJclSimpleLog(CL);
13545: Procedure InitSimpleLog( const ALogFileFileName : string)
13546: end;
13547:
13548: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13549: begin
13550:   FindClass('TOBJECT','EJclBorRADException'
13551:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )
13552:   TJclBorRADToolEdition', '( deOPEN, dePRO, deSVR )
13553:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )
13554:   TJclBorRADToolPath', 'string
13555:   'SupportedDelphiVersions', 'LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13556:   'SupportedBCBVersions', 'LongInt'( 5 or 6 or 10 or 11);
13557:   'SupportedBDSVersions', 'LongInt'( 1 or 2 or 3 or 4 or 5);
13558:   BorRADToolRepositoryPagesSection', 'String 'Repository Pages
13559:   BorRADToolRepositoryDialogsPage', 'String 'Dialogs
13560:   BorRADToolRepositoryFormsPage', 'String 'Forms
13561:   BorRADToolRepositoryProjectsPage', 'String 'Projects
13562:   BorRADToolRepositoryDataModulesPage', 'String 'Data Modules
13563:   BorRADToolRepositoryObjectType', 'String 'Type
13564:   BorRADToolRepositoryFormTemplate', 'String 'FormTemplate
13565:   BorRADToolRepositoryProjectTemplate', 'String 'ProjectTemplate
13566:   BorRADToolRepositoryObjectName', 'String 'Name
13567:   BorRADToolRepositoryObjectPage', 'String 'Page
13568:   BorRADToolRepositoryObjectIcon', 'String 'Icon
13569:   BorRADToolRepositoryObjectDescr', 'String 'Description
13570:   BorRADToolRepositoryObjectAuthor', 'String 'Author
13571:   BorRADToolRepositoryObjectAncestor', 'String 'Ancestor
13572:   BorRADToolRepositoryObjectDesigner', 'String 'Designer
13573:   BorRADToolRepositoryDesignerDfm', 'String 'dfm
13574:   BorRADToolRepositoryDesignerXfm', 'String 'xmf
13575:   BorRADToolRepositoryObjectNewForm', 'String 'DefaultNewForm
13576:   BorRADToolRepositoryObject MainForm', 'String 'DefaultMainForm
13577:   SourceExtensionDelphiPackage', 'String '.dpk
13578:   SourceExtensionBCBPackage', 'String '.bpk
13579:   SourceExtensionDelphiProject', 'String '.dpr
13580:   SourceExtensionBCBProject', 'String '.bpr
13581:   SourceExtensionBDSProject', 'String '.bdsproj
13582:   SourceExtensionDProject', 'String '.dproj
13583:   BinaryExtensionPackage', 'String '.bpl
13584:   BinaryExtensionLibrary', 'String '.dll
13585:   BinaryExtensionExecutable', 'String '.exe
13586:   CompilerExtensionDCP', 'String '.dcp
13587:   CompilerExtensionBPI', 'String '.bpi
13588:   CompilerExtensionLIB', 'String '.lib
13589:   CompilerExtensionTDS', 'String '.tds
13590:   CompilerExtensionMAP', 'String '.map
13591:   CompilerExtensionDRC', 'String '.drc
13592:   CompilerExtensionDEF', 'String '.def
13593:   SourceExtensionCPP', 'String '.cpp
13594:   SourceExtensionH', 'String '.h
13595:   SourceExtensionPAS', 'String '.pas
13596:   SourceExtensionDFM', 'String '.dfm
13597:   SourceExtensionXFM', 'String '.xmf
13598:   SourceDescriptionPAS', 'String 'Pascal source file
13599:   SourceDescriptionCPP', 'String 'C++ source file
13600:   DesignerVCL', 'String 'VCL
13601:   DesignerCLX', 'String 'CLX
13602:   ProjectTypePackage', 'String 'package
13603:   ProjectTypeLibrary', 'String 'library
13604:   ProjectTypeProgram', 'String 'program
13605:   Personality32Bit', 'String '32 bit
13606:   Personality64Bit', 'String '64 bit
13607:   PersonalityDelphi', 'String 'Delphi
13608:   PersonalityDelphiDotNet', 'String 'Delphi.net
13609:   PersonalityBCB', 'String 'C++Builder
13610:   PersonalityCSB', 'String 'C#Builder
13611:   PersonalityVB', 'String 'Visual Basic
13612:   PersonalityDesign', 'String 'Design
13613:   PersonalityUnknown', 'String 'Unknown personality
13614:   PersonalityBDS', 'String 'Borland Developer Studio
13615:   DOFDirectoriesSection', 'String 'Directories
13616:   DOFUnitOutputDirKey', 'String 'UnitOutputDir
13617:   DOFSearchPathName', 'String 'SearchPath
13618:   DOFConditionals', 'String 'Conditionals
13619:   DOFLinkerSection', 'String 'Linker

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13620: DOFPackagesKey', 'String 'Packages
13621: DOFCompilerSection', 'String 'Compiler
13622: DOFPackageNoLinkKey', 'String 'PackageNoLink
13623: DOFAdditionalSection', 'String 'Additional
13624: DOFOptionsKey', 'String 'Options
13625: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13626: +'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13627: +'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13628: TJclBorPersonalities', 'set of TJclBorPersonality
13629: TJclBorDesigner', '( bdVCL, bdCLX )
13630: TJclBorDesigners', 'set of TJclBorDesigner
13631: TJclBorPlatform', '( bp32bit, bp64bit )
13632: FindClass('TOBJECT'), TJclBorRADToolInstallation
13633: SIRegister_TJclBorLandOpenHelp(CL);
13634: SIRegister_TJclBorRADToolInstallationObject(CL);
13635: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13636: TJclHelp2Objects', 'set of TJclHelp2Object
13637: SIRegister_TJclHelp2Manager(CL);
13638: SIRegister_TJclBorRADToolIdeTool(CL);
13639: SIRegister_TJclBorRADToolIdePackages(CL);
13640: SIRegister_IJclCommandLineTool(CL);
13641: FindClass('TOBJECT'), EJclCommandLineToolError
13642: SIRegister_TJclCommandLineTool(CL);
13643: SIRegister_TJclBorLandCommandLineTool(CL);
13644: SIRegister_TJclBCC32(CL);
13645: SIRegister_TJclDCC32(CL);
13646: TJclDCC', 'TJclDCC32
13647: SIRegister_TJclBpr2Mak(CL);
13648: SIRegister_TJclBorLandMake(CL);
13649: SIRegister_TJclBorRADToolPalette(CL);
13650: SIRegister_TJclBorRADToolRepository(CL);
13651: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13652: TCommandLineTools', 'set of TCommandLineTool
13653: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13654: SIRegister_TJclBorRADToolInstallation(CL);
13655: SIRegister_TJclBCBInstallation(CL);
13656: SIRegister_TJclDelphiInstallation(CL);
13657: SIRegister_TJclDCCL(CL);
13658: SIRegister_TJclBDSInstallation(CL);
13659: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13660: SIRegister_TJclBorRADToolInstallations(CL);
13661: Function BPLfileName( const BPLPath, PackageFileName : string ) : string
13662: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13663: Function IsDelphiPackage( const FileName : string ) : Boolean
13664: Function IsDelphiProject( const FileName : string ) : Boolean
13665: Function IsBCBPackage( const FileName : string ) : Boolean
13666: Function IsBCBProject( const FileName : string ) : Boolean
13667: Procedure GetDPRFileInfo( const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString );
13668: Procedure GetBPRFileInfo( const BPRFileName:string;out BinaryFileName:string;const Descript:PString );
13669: Procedure GetDPKFileInfo( const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13670: Procedure GetBPKFileInfo( const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13671: function SamePath(const Path1, Path2: string): Boolean;
13672: end;
13673:
13674: procedure SIRegister_JclFileUtils_max(CL: TPSPascalCompiler);
13675: begin
13676: 'ERROR_NO_MORE_FILES', 'LongInt'( 18 );
13677: //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13678: //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64 ) : Integer
13679: //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13680: 'LPathSeparator','String '
13681: 'LDirDelimiter','String '
13682: 'LDirSeparator','String '
13683: 'JXPathDevicePrefix','String '\\.\\
13684: 'JXPathSeparator','String \
13685: 'JXDirDelimiter','String \
13686: 'JXDirSeparator','String ';
13687: 'JXPathUncPrefix','String \
13688: 'faNormalFile','LongWord')($00000080);
13689: //faUnixSpecific,' faSymLink);
13690: JXTCompactPath', '( cpCenter, cpEnd )
13691: '_WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13692: +'tCreationTime: TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime :'
13693: +' TFFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13694: TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13695: WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13696:
13697: Function jxPathAddSeparator( const Path : string ) : string
13698: Function jxPathAddExtension( const Path, Extension : string ) : string
13699: Function jxPathAppend( const Path, Append : string ) : string
13700: Function jxPathBuildRoot( const Drive : Byte ) : string
13701: Function jxPathCanonicalize( const Path : string ) : string
13702: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13703: Function jxPathCompactPath( const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13704: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
13705: Function jxPathExtractFileDirFixed( const S : string ) : string
13706: Function jxPathExtractFileNameNoExt( const Path : string ) : string

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13707: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13708: Function jxPathGetDepth( const Path : string ) : Integer
13709: Function jxPathGetLongName( const Path : string ) : string
13710: Function jxPathGetShortName( const Path : string ) : string
13711: Function jxPathGetLongName( const Path : string ) : string
13712: Function jxPathGetShortName( const Path : string ) : string
13713: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13714: Function jxPathGetTempPath : string
13715: Function jxPathIsAbsolute( const Path : string ) : Boolean
13716: Function jxPathIsChild( const Path, Base : string ) : Boolean
13717: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13718: Function jxPathIsUNC( const Path : string ) : Boolean
13719: Function jxPathRemoveSeparator( const Path : string ) : string
13720: Function jxPathRemoveExtension( const Path : string ) : string
13721: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13722: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13723: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13724: JxTFilelistOptions', 'set of TFileListOption
13725: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13726: TFileHandler', 'Procedure ( const FileName : string )
13727: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec )
13728: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13729: //Function AdvBuildfileList( const Path : string; const Attr : Integer; const Files : TStrings; const
  AttributeMatch:TJclIAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
  FileMatchFunc:TFileMatchFunc):Bool;
13730: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13731: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13732: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13733: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13734: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
  RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13735: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
  IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13736: Procedure jxCreatEmptyFile( const FileName : string )
13737: Function jxCloseVolume( var Volume : THandle ) : Boolean
13738: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13739: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13740: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13741: Function jxDelTree( const Path : string ) : Boolean
13742: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13743: Function jxDiskInDrive( Drive : Char ) : Boolean
13744: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13745: Function jxFileCreateTemp( var Prefix : string ) : THandle
13746: Function jxFileBackup( const FileName : string; Move : Boolean ) : Boolean
13747: Function jxFileCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13748: Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13749: Function jxFileExists( const FileName : string ) : Boolean
13750: Function jxFileMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13751: Function jxFileRestore( const FileName : string ) : Boolean
13752: Function jxGetBackupFileName( const FileName : string ) : string
13753: Function jxIsBackupFileName( const FileName : string ) : Boolean
13754: Function jxFileGetDisplayName( const FileName : string ) : string
13755: Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13756: Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13757: Function jxFileGetSize( const FileName : string ) : Int64
13758: Function jxFileGetTempName( const Prefix : string ) : string
13759: Function jxFileGetType( const FileName : string ) : string
13760: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string ) : string
13761: Function jxForceDirectories( Name : string ) : Boolean
13762: Function jxGetDirectorySize( const Path : string ) : Int64
13763: Function jxGetDriveTypeStr( const Drive : Char ) : string
13764: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13765: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer )
13766: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer )
13767: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13768: Function jxGetFileInfo1( const FileName : string ) : TSearchRec;
13769: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
  ResolveSymLinks:Boolean):Integer
13770: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13771: Function jxGetFileLastWritel( const FName : string; out LocalTime : TDateTime ) : Boolean;
13772: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13773: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13774: Function jxGetFileCreation( const FName : string ) : TFileTime;
13775: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13776: Function jxGetFileLastWrite1( const FName : string;out TimeStamp:Integer;ResolveSymLinks : Bool):Bool;
13777: Function jxGetFileLastWritel1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13778: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13779: Function jxGetFileLastAccess( const FName:string; out TimeStamp:Integer;ResolveSymLinks: Bool): Bool;
13780: Function jxGetFileLastAccess1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13781: Function jxGetFileLastAccess2(const FName:string; ResolveSymLinks:Boolean): Integer;
13782: Function jxGetFileLastAttrChange( const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13783: Function jxGetFileLastAttrChang1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13784: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks: Boolean ) : Integer;
13785: Function jxGetModulePath( const Module : HMODULE ) : string
13786: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13787: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13788: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13789: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileAttributeData
13790: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean

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13791: Function jxIsRootDirectory( const CanonicFileName : string ) : Boolean
13792: Function jxLockVolume( const Volume : string; var Handle : THandle ) : Boolean
13793: Function jxOpenVolume( const Drive : Char ) : THandle
13794: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
13795: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
13796: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
13797: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
13798: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
13799: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
13800: Procedure jxShredfile( const FileName : string; Times : Integer )
13801: Function jxUnlockVolume( var Handle : THandle ) : Boolean
13802: Function jxCreatSymbolicLink( const Name, Target : string ) : Boolean
13803: Function jxSymbolicLinkTarget( const Name : string ) : string
13804: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )'
13805: SIRegister_TJclCustomFileAttrMask(CL);
13806: SIRegister_TJclFileAttributeMask(CL);
13807: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS'
13808: +'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)'
13809: TFileSearchOptions', 'set of TFileSearchOption
13810: TFileSearchTaskID', 'Integer
13811: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc'
13812: +'hTaskID; const Aborted : Boolean)
13813: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )
13814: SIRegister_IJclFileEnumerator(CL);
13815: SIRegister_TJclFileEnumerator(CL);
13816: Function JxFileSearch : IJclFileEnumerator
13817: JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )
13818: JxTFileFlags', 'set of TFileFlag
13819: FindClass('TOBJECT'), 'EJclFileVersionInfoError
13820: SIRegister_TJclFileVersionInfo(CL);
13821: Function jxOSIdentToString( const OSIdent : DWORD ) : string
13822: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
13823: Function jxVersionResourceAvailable( const FileName : string ) : Boolean
13824: TFileVersionFormat', '( vfMajorMinor, vfFull )
13825: Function jxFormatVersionString( const HiV, LoV : Word ) : string
13826: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13827: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo; VersionFormat:TFFileVersionFormat):str;
13828: //Procedure VersionExtractFileInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13829: //Procedure VersionExtractProductInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,
13830: Revision:Word);
13831: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo ) : Boolean
13832: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
13833: NotAvailableText : string ) : string
13834: SIRegister_TJclTempFileStream(CL);
13835: FindClass('TOBJECT'), 'TJclCustomFileMapping
13836: SIRegister_TJclFileMappingView(CL);
13837: TJclFileMappingRoundOffset', '( rvDown, rvUp )
13838: SIRegister_TJclCustomFileMapping(CL);
13839: SIRegister_TJclSwapFileMapping(CL);
13840: SIRegister_TJclFileMappingStream(CL);
13841: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )
13842: //PPCharArray', '^TPCharArray // will not work
13843: SIRegister_TJclMappedTextReader(CL);
13844: SIRegister_TJclFileMaskComparator(CL);
13845: FindClass('TOBJECT'), 'EJclPathError
13846: FindClass('TOBJECT'), 'EJclTempFileStreamError
13847: FindClass('TOBJECT'), 'EJclTempFileStreamError
13848: FindClass('TOBJECT'), 'EJclFileMappingError
13849: FindClass('TOBJECT'), 'EJclFileMappingViewError
13850: Function jxPathGetLongName2( const Path : string ) : string
13851: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13852: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string ) : Boolean
13853: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean
13854: Function jxWin32RestoreFile( const FileName : string ) : Boolean
13855: Function jxSamePath( const Path1, Path2 : string ) : Boolean
13856: Procedure jxPathListAddItems( var List : string; const Items : string )
13857: Procedure jxPathListIncludeItems( var List : string; const Items : string )
13858: Procedure jxPathListDelItems( var List : string; const Items : string )
13859: Procedure jxPathListDelItem( var List : string; const Index : Integer )
13860: Function jxPathListItemCount( const List : string ) : Integer
13861: Function jxPathListGetItem( const List : string; const Index : Integer ) : string
13862: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string )
13863: Function jxPathListItemIndex( const List, Item : string ) : Integer
13864: Function jxParamName(Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string
13865: Function jxParamValue(Index : Integer; const Separator : string; TrimValue : Boolean) : string;
13866: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
13867: AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13868: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
13869: AllowedPrefixCharacters : string ) : Integer
13870: end;
13871: procedure SIRegister_FileUtil(CL: TPSPascalCompiler);
13872: begin
13873: 'UTF8FileHeader','String #$ef#$bb#$bf';
13874: Function lCompareFilenames( const Filenamel, Filename2 : string ) : integer
13875: Function lCompareFilenamesIgnoreCase( const Filenamel, Filename2 : string ) : integer
13876: Function lCompareFilenames( const Filenamel, Filename2 : string; ResolveLinks : boolean ) : integer

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13876: Function lCompareFilenames(Filename1:PChar;Len1:int;Filename2:PChar;Len2:int;ResolveLinks:boolean):int;
13877: Function lFilenameIsAbsolute( const TheFilename : string ) : boolean
13878: Function lFilenameIsWinAbsolute( const TheFilename : string ) : boolean
13879: Function lFilenameIsUnixAbsolute( const TheFilename : string ) : boolean
13880: Procedure lCheckIfFileIsExecutable( const AFilename : string )
13881: Procedure lCheckIfFileIsSymlink( const AFilename : string )
13882: Function lFileIsReadable( const AFilename : string ) : boolean
13883: Function lFileIsWritable( const AFilename : string ) : boolean
13884: Function lFileIsText( const AFilename : string ) : boolean
13885: Function lFileIsText( const AFilename : string; out FileReadable : boolean ) : boolean
13886: Function lFileIsExecutable( const AFilename : string ) : boolean
13887: Function lFileIsSymlink( const AFilename : string ) : boolean
13888: Function lFileIsHardLink( const AFilename : string ) : boolean
13889: Function lFileSize( const Filename : string ) : int64;
13890: Function lGetFileDescription( const AFilename : string ) : string
13891: Function lReadAllLinks( const Filename : string; ExceptionOnError : boolean ) : string
13892: Function lTryReadAllLinks( const Filename : string ) : string
13893: Function lDirPathExists( const FileName : String ) : Boolean
13894: Function lForceDirectory( DirectoryName : string ) : boolean
13895: Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13896: Function lProgramDirectory : string
13897: Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13898: Function lExtractFileNameOnly( const AFilename : string ) : string
13899: Function lExtractFileNameWithoutExt( const AFilename : string ) : string
13900: Function lCompareFileExt( const Filename, Ext : string; CaseSensitive : boolean ) : integer;
13901: Function lCompareFileExt( const Filename, Ext : string ) : integer;
13902: Function lFilenameIsPascalUnit( const Filename : string ) : boolean
13903: Function lAppendPathDelim( const Path : string ) : string
13904: Function lChompPathDelim( const Path : string ) : string
13905: Function lTrimFilename( const AFilename : string ) : string
13906: Function lCleanAndExpandFilename( const Filename : string ) : string
13907: Function lCleanAndExpandDirectory( const Filename : string ) : string
13908: Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
13909: Function lCreateRelativePath( const Filename, BaseDirectory : string; UsePointDirectory : boolean;
AlwaysRequireSharedBaseFolder : Boolean ) : string
13910: Function lCreateAbsolutePath( const Filename, BaseDirectory : string ) : string
13911: Function lFileIsInPath( const Filename, Path : string ) : boolean
13912: Function lFileIsInDirectory( const Filename, Directory : string ) : boolean
13913: TSearchFileInPathFlag', '( sffDontSearchInbasePath, sffSearchLoUpCase )
13914: TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13915: 'AllDirectoryEntriesMask', 'String '*
13916: Function l GetAllFilesMask : string
13917: Function lGetExeExt : string
13918: Function lSearchFileInPath( const Filename, basePath, SearchPath, Delimiter : string; Flags : TSearchFileInPathFlags ) : string
13919: Function lSearchAllFilesInPath( const Filename, basePath, SearchPath, Delimiter:string;Flags : TSearchFileInPathFlags ) : TStrings
13920: Function lFindDiskFilename( const Filename : string ) : string
13921: Function lFindDiskFileCaseInsensitive( const Filename : string ) : string
13922: Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13923: Function lGetDarwinSystemFilename( Filename : string ) : string
13924: SIRegister_TFileIterator(CL);
13925: TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13926: TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13927: TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator )
13928: SIRegister_TFileSearcher(CL);
13929: Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13930: Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
13931: // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13932: // TCopyFileFlags', 'set of TCopyFileFlag
13933: Function lCopyFile( const SrcFilename, Destfilename : string; Flags : TCopyFileFlags ) : boolean
13934: Function lCopyFile( const SrcFilename, Destfilename : string; PreserveTime : boolean) : boolean
13935: Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags ) : Boolean
13936: Function lReadFileToString( const Filename : string ) : string
13937: Function lGetTempFilename( const Directory, Prefix : string ) : string
13938: {Function NeedRTLAnsi : boolean
13939: Procedure SetNeedRTLAnsi( NewValue : boolean)
13940: Function UTF8ToSys( const s : string ) : string
13941: Function SysToUTF8( const s : string ) : string
13942: Function ConsoleToUTF8( const s : string ) : string
13943: Function UTF8ToConsole( const s : string ) : string
13944: Function FileExistsUTF8( const FileName : string ) : boolean
13945: Function FileAgeUTF8( const FileName : string ) : Longint
13946: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
13947: Function ExpandFileNameUTF8( const FileName : string ) : string
13948: Function ExpandUNCFileNameUTF8( const FileName : string ) : string
13949: Function ExtractShortPathNameUTF8( const FileName : String ) : String
13950: Function FindFirstUTF8(const Path: string; Attr : Longint; out Rslt : TSearchRec) : Longint
13951: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13952: Procedure FindCloseUTF8( var F : TSearchrec)
13953: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
13954: Function FileGetAttrUTF8( const FileName : String) : Longint
13955: Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
13956: Function DeleteFileUTF8( const FileName : String) : Boolean
13957: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
13958: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
13959: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
13960: Function GetCurrentDirUTF8 : String
13961: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean

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13962: Function CreateDirUTF8( const NewDir : String ) : Boolean
13963: Function RemoveDirUTF8( const Dir : String ) : Boolean
13964: Function ForceDirectoriesUTF8( const Dir : string ) : Boolean
13965: Function FileOpenUTF8( const FileName : string; Mode : Integer ) : THandle
13966: Function FileCreateUTF8( const FileName : string ) : THandle;
13967: Function FileCreateUTF8l( const FileName : string; Rights : Cardinal ) : THandle;
13968: Function ParamStrUTF8( Param : Integer ) : string
13969: Function GetEnvironmentStringUTF8( Index : Integer ) : string
13970: Function GetEnvironmentVariableUTF8( const EnvVar : string ) : String
13971: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean ) : string
13972: Function GetAppConfigFileUTF8( Global:Boolean; SubDir:boolean; CreateDir : boolean ) : string
13973: Function SysErrorMessageUTF8( ErrorCode : Integer ) : String
13974: end;
13975:
13976: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13977: begin
13978:   //VK_F23 = 134;
13979:   //{$EXTERNALSYM VK_F24}
13980:   //VK_F24 = 135;
13981:   TVirtualKeyCode', 'Integer
13982:   'VK_MOUSEWHEELUP','integer'(134);
13983:   'VK_MOUSEWHEELDOWN','integer'(135);
13984:   Function glIsKeyDown( c : Char ) : Boolean;
13985:   Function glIsKeyDown( vk : TVirtualKeyCode ) : Boolean;
13986:   Function glKeyPressed( minVkeyCode : TVirtualKeyCode ) : TVirtualKeyCode
13987:   Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode ) : String
13988:   Function glKeyNameToVirtualKeyCode( const keyName : String ) : TVirtualKeyCode
13989:   Function glCharToVirtualKeyCode( c : Char ) : TVirtualKeyCode
13990:   Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer )
13991: end;
13992:
13993: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13994: begin
13995:   TGLPoint', 'TPoint
13996:   //PGLPoint', '^TGLPoint // will not work
13997:   TGLRect', 'TRect
13998:   //PGLRect', '^TGLRect // will not work
13999:   TDelphiColor', 'TColor
14000:   TGLPicture', 'TPicture
14001:   TGLGraphic', 'TGraphic
14002:   TGLBitmap', 'TBitmap
14003:   //TGraphicClass', 'class of TGraphic
14004:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
14005:   TGLMouseEvent', '( mbLeft, mbRight, mbMiddle )
14006:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
14007:     +'Button; Shift : TShiftState; X, Y : Integer )
14008:   TGLMouseEvent', 'TMouseEvent
14009:   TGLKeyEvent', 'TKeyEvent
14010:   TGLKeyPressEvent', 'TKeyPressEvent
14011:   EGLOSError', 'EWin32Error
14012:   EGLOSError', 'EWin32Error
14013:   EGLOSError', 'EOSError
14014:   'glsAllFilter', 'string'All // sAllFilter
14015:   Function GLPoint( const x, y : Integer ) : TGLPoint
14016:   Function GLRGB( const r, g, b : Byte ) : TColor
14017:   Function GLColorToRGB( color : TColor ) : TColor
14018:   Function GLGetRValue( rgb : DWORD ) : Byte
14019:   Function GLGetGValue( rgb : DWORD ) : Byte
14020:   Function GLGetBValue( rgb : DWORD ) : Byte
14021:   Procedure GLInitWinColors
14022:   Function GLRect( const aLeft, aTop, aRight, aBottom : Integer ) : TGLRect
14023:   Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer )
14024:   Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect )
14025:   Procedure GLInformationDlg( const msg : String )
14026:   Function GLQuestionDlg( const msg : String ) : Boolean
14027:   Function GLInputDlg( const aCaption, aPrompt, aDefault : String ) : String
14028:   Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
14029:   Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean
14030:   Function GLApplicationTerminated : Boolean
14031:   Procedure GLRaiseLastOSError
14032:   Procedure GLFreeAndNil( var anObject: TObject )
14033:   Function GLGetDeviceLogicalPixelsX( device : Cardinal ) : Integer
14034:   Function GLGetCurrentColorDepth : Integer
14035:   Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
14036:   Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
14037:   Procedure GLSleep( length : Cardinal )
14038:   Procedure GLQueryPerformanceCounter( var val : Int64 )
14039:   Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
14040:   Function GLStartPrecisionTimer : Int64
14041:   Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
14042:   Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double
14043:   Function GLRDTS : Int64
14044:   Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string )
14045:   Function GLOKMessageBox( const Text, Caption : string ) : Integer
14046:   Procedure GLShowHTMLUrl( Url : String )
14047:   Procedure GLShowCursor( AShow : boolean )
14048:   Procedure GLSetCursorPos( AScreenX, AScreenY : integer )
14049:   Procedure GLGetCursorPos( var point : TGLPoint )
14050:   Function GLGetScreenWidth : integer

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14051: Function GLGetScreenHeight : integer
14052: Function GLGetTickCount : int64
14053: function RemoveSpaces(const str : String) : String;
14054:   TNormalMapSpace'.'( nmsObject, nmsTangent )
14055: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList:Colors:TVectorList)
14056: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList)
14057: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals : TAffineVectorList; Colors : TVectorList)
14058: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
14059:   HiTexCoords:TAffineVectorList):TGLBitmap
14059: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
14060:   LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
14061: end;
14061:
14062: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
14063: begin
14064:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
14065: // PGLStarRecord', '^TGLStarRecord // will not work
14066: Function StarRecordPositionZUp( const starRecord : TGLStarRecord) : TAffineVector
14067: Function StarRecordPositionYUp( const starRecord : TGLStarRecord) : TAffineVector
14068: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single) : TVector
14069: end;
14070:
14071:
14072: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
14073: begin
14074:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
14075: //PAABB', '^TAABB // will not work
14076: TBSphere', 'record Center : TAffineVector; Radius : single; end
14077: TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
14078: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14079: Function AddBB( var cl : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14080: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB )
14081: Procedure SetBB( var c : THmgBoundingBox; const v : TVector )
14082: Procedure SetAABB( var bb : TAABB; const v : TVector )
14083: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix )
14084: Procedure AABBTTransform( var bb : TAABB; const m : TMatrix )
14085: Procedure AABBScale( var bb : TAABB; const v : TAffineVector )
14086: Function BBMinX( const c : THmgBoundingBox ) : Single
14087: Function BBMaxX( const c : THmgBoundingBox ) : Single
14088: Function BBMinY( const c : THmgBoundingBox ) : Single
14089: Function BBMaxY( const c : THmgBoundingBox ) : Single
14090: Function BBMinZ( const c : THmgBoundingBox ) : Single
14091: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14092: Procedure AABBindInclude( var bb : TAABB; const p : TAffineVector )
14093: Procedure AABBFfromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single )
14094: Function AABBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14095: Function BBTtoAABB( const aBB : THmgBoundingBox ) : TAABB
14096: Function AABBTtoBB( const anAABB : TAABB ) : THmgBoundingBox
14097: Function AABBTtoBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox
14098: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector );
14099: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector );
14100: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14101: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14102: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14103: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14104: Function AABBfitsInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14105: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14106: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14107: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14108: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14109: Procedure ExtractAABCorners( const AABB : TAABB; var AABCorners : TAABCorners )
14110: Procedure AABBTtoBSphere( const ABB : TAABB; var BSphere : TBSphere )
14111: Procedure BSphereToAABB( const BSphere : TBSphere; var ABB : TAABB );
14112: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14113: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14114: Function AABCContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
14115: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains
14116: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains
14117: Function AABCContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains
14118: Function PlaneContainsBSphere( const Location,Normal:TAffineVector;const
14119:   testBSphere:TSphere):TSpaceContains
14120: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains
14121: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14122: Function ClipToAABB( const v : TAffineVector; const ABB : TAABB ) : TAffineVector
14123: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean
14124: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single )
14125: Function AABBToClipRect(const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
14126:   viewportSizeY:Int):TClipRect
14125: end;
14126:
14127: procedure SIRegister_GeometryCoordinates(CL: TPSPascalCompiler);
14128: begin
14129:   Procedure Cylindrical_Cartesian( const r, theta, zl : single; var x, y, z : single );
14130:   Procedure Cylindrical_Cartesian1( const r, theta, zl : double; var x, y, z : double );
14131:   Procedure Cylindrical_Cartesian2( const r,theta,zl : single; var x, y, z : single; var ierr : integer );
14132:   Procedure Cylindrical_Cartesian3( const r,theta,zl : double; var x, y, z : double; var ierr : integer );
14133:   Procedure Cartesian_Cylindrical( const x, y, zl : single; var r, theta, z : single );
14134:   Procedure Cartesian_Cylindrical1( const x, y, zl : double; var r, theta, z : double );

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14135: Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single);
14136: Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double);
14137: Procedure Spherical_Cartesian2( const r,theta, phi : single; var x, y, z : single; var ierr : integer);
14138: Procedure Spherical_Cartesian3( const r,theta, phi : double; var x, y, z : double; var ierr : integer);
14139: Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single);
14140: Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single);
14141: Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double);
14142: Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14143: Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14144: Procedure ProlateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr: integer);
14145: Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer);
14146: Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14147: Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14148: Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer);
14149: Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer);
14150: Procedure BipolarCylindrical_Cartesian( const u, v, zl, a : single; var x, y, z : single);
14151: Procedure BipolarCylindrical_Cartesian1( const u, v, zl, a : double; var x, y, z : double);
14152: Procedure BipolarCylindrical_Cartesian2( const u,v,zl,a: single;var x,y,z:single; var ierr : integer);
14153: Procedure BipolarCylindrical_Cartesian3( const u,v,zl,a: double;var x,y,z:double; var ierr : integer);
14154: end;
14155:
14156: procedure SIRegister_VectorGeometry(CL: TPSPPascalCompiler);
14157: begin
14158:   'EPSILON','Single').setExtended( 1e-40);
14159:   'EPSILON2','Single').setExtended( 1e-30);  }
14160: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14161:   +'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14162: THmgPlane', 'TVector
14163: TDoublEhmPlane', 'THomogeneousDblVector
14164: {TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14165:   +'XZ, ttShearyZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14166:   +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14167: TSinglArray', 'array of Single
14168: TTransformations', 'array [0..15] of Single)
14169: TPackedRotationMatrix', 'array [0..2] of Smallint)
14170: TVertex', 'TAffineVector
14171: //TVectorGL', 'THomogeneousFltVector
14172: //TMatrixGL', 'THomogeneousFltMatrix
14173: // TPackedRotationMatrix = array [0..2] of SmallInt;
14174: Function glTexPointMake( const s, t : Single) : TTExPoint
14175: Function glAffineVectorMake( const x, y, z : Single) : TAffineVector;
14176: Function glAffineVectorMakel( const v : TVectorGL) : TAffineVector;
14177: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single);
14178: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single);
14179: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL);
14180: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector);
14181: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector);
14182: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL);
14183: Function glVectorMake( const v : TAffineVector; w : Single) : TVectorGL;
14184: Function glVectorMakel( const x, y, z : Single; w : Single) : TVectorGL;
14185: Function glPointMake( const x, y, z : Single) : TVectorGL;
14186: Function glPointMakel( const v : TAffineVector) : TVectorGL;
14187: Function glPointMake2( const v : TVectorGL) : TVectorGL;
14188: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single);
14189: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single);
14190: Procedure glglsSetVector7( var v : TVectorGL; const vSrc : TVectorGL);
14191: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single);
14192: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector);
14193: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL);
14194: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single);
14195: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single);
14196: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector);
14197: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL);
14198: Procedure glRstVector( var v : TAffineVector);
14199: Procedure glRstVector1( var v : TVectorGL);
14200: Function glVectorAdd( const v1, v2 : TAffineVector) : TAffineVector;
14201: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector);
14202: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector);
14203: Function glVectorAdd3( const v1, v2 : TVectorGL) : TVectorGL;
14204: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL);
14205: Function glVectorAdd5( const v : TAffineVector; const f : Single) : TAffineVector;
14206: Function glVectorAdd6( const v : TVectorGL; const f : Single) : TVectorGL;
14207: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector);
14208: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL);
14209: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL);
14210: Procedure glAddVector10( var v : TAffineVector; const f : Single);
14211: Procedure glAddVector11( var v : TVectorGL; const f : Single);
14212: //Procedure TexPointArrayAdd(const src:PTexPointArray,const delta:TTExPoint;const
14213: nb:Int;dest:PTexPointArray);
14213: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray,const delta:TTExPoint;const
14214: nb:Integer;const scale: TTExPoint; dest : PTExPointArray);
14214: //Procedure VectorArrayAdd(const src:PAffineVectorArray;const delta:TAffineVector;const nb:Integer;dest:
14215: PAffineVectorArray);
14215: Function glVectorSubtract( const V1, V2 : TAffineVector) : TAffineVector;
14216: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector);
14217: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL);
14218: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL);
14219: Function glVectorSubtract4( const V1, V2 : TVectorGL) : TVectorGL;
14220: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL);

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14221: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector);
14222: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single) : TAffineVector;
14223: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single) : TVectorGL;
14224: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector);
14225: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL);
14226: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single);
14227: //Procedure CombineVector1( var vr : TAFFineVector; const v : TAFFineVector; pf : PFloat);
14228: Function glTexPointCombine( const t1, t2 : TTExPoint; f1, f2 : Single) : TTExPoint;
14229: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single) : TAffineVector;
14230: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single) : TAffineVector;
14231: Procedure glVectorCombine34(const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector);
14232: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single);
14233: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single);
14234: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single) : TVectorGL;
14235: Function glVectorCombine8( const V1 : TVectorGL; const V2 : TAffineVector; const F1, F2:Single): TVectorGL;
14236: Procedure glVectorCombine9(const V1:TVectorGL;const V2:TAFFineVector;const F1,F2:Single;var vr:TVectorGL);
14237: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL);
14238: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL);
14239: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single) : TVectorGL;
14240: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL);
14241: Function glVectorDotProduct( const V1, V2 : TAffineVector) : Single;
14242: Function glVectorDotProduct1( const V1, V2 : TVectorGL) : Single;
14243: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector) : Single;
14244: Function glPointProject( const p, origin, direction : TAffineVector) : Single;
14245: Function glPointProject1( const p, origin, direction : TVectorGL) : Single;
14246: Function glVectorCrossProduct( const V1, V2 : TAffineVector) : TAffineVector;
14247: Function glVectorCrossProduct1( const V1, V2 : TVectorGL) : TVectorGL;
14248: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL);
14249: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL);
14250: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector);
14251: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector);
14252: Function glLerp( const start, stop, t : Single) : Single;
14253: Function glAngleLerp( start, stop, t : Single) : Single;
14254: Function glDistanceBetweenAngles( angle1, angle2 : Single) : Single;
14255: Function glTexPointLerp( const t1, t2 : TTExPoint; t : Single) : TTExPoint;
14256: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14257: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector);
14258: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single) : TVectorGL;
14259: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL);
14260: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14261: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single) : TAffineVector;
14262: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray);
14263: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest : PAffineVectorArray);
14264: Function glVectorLength( const x, y : Single) : Single;
14265: Function glVectorLength1( const x, y, z : Single) : Single;
14266: Function glVectorLength2( const v : TAffineVector) : Single;
14267: Function glVectorLength3( const v : TVectorGL) : Single;
14268: Function glVectorLength4( const v : array of Single) : Single;
14269: Function glVectorNorm( const x, y : Single) : Single;
14270: Function glVectorNorm1( const v : TAffineVector) : Single;
14271: Function glVectorNorm2( const v : TVectorGL) : Single;
14272: Function glVectorNorm3( var V : array of Single) : Single;
14273: Procedure glNormalizeVector( var v : TAffineVector);
14274: Procedure glNormalizeVector1( var v : TVectorGL);
14275: Function glVectorNormalize( const v : TAffineVector) : TAffineVector;
14276: Function glVectorNormalize1( const v : TVectorGL) : TVectorGL;
14277: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer);
14278: Function glVectorAngleCosine( const V1, V2 : TAffineVector) : Single;
14279: Function glVectorNegate( const v : TAffineVector) : TAffineVector;
14280: Function glVectorNegate1( const v : TVectorGL) : TVectorGL;
14281: Procedure glNegateVector( var V : TAffineVector);
14282: Procedure glNegateVector2( var V : TVectorGL);
14283: Procedure glNegateVector3( var V : array of Single);
14284: Procedure glScaleVector( var v : TAffineVector; factor : Single);
14285: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector);
14286: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14287: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14288: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14289: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14290: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14291: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);
14292: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14293: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14294: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14295: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14296: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14297: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14298: Function glVectorIsNull1( const v : TAffineVector) : Boolean;
14299: Function glVectorSpacing( const v1, v2 : TTExPoint) : Single;
14300: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14301: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14302: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14303: Function glVectorDistance1( const v1, v2 : TVectorGL) : Single;
14304: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14305: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14306: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector;
14307: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector;
14308: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);

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14309: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14310: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single)
14311: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;
14312: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single) : TAffineVector;
14313: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector);
14314: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single) : TAffineVector;
14315: Procedure glAbsVector( var v : TVectorGL);
14316: Procedure glAbsVector1( var v : TAffineVector);
14317: Function glVectorAbs( const v : TVectorGL) : TVectorGL;
14318: Function glVectorAbs1( const v : TAffineVector) : TAffineVector;
14319: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL);
14320: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL);
14321: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix);
14322: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL);
14323: Function glCreateScaleMatrix( const v : TAffineVector) : TMatrixGL;
14324: Function glCreateScaleMatrix1( const v : TVectorGL) : TMatrixGL;
14325: Function glCreateTranslationMatrix( const V : TAffineVector) : TMatrixGL;
14326: Function glCreateTranslationMatrix1( const V : TVectorGL) : TMatrixGL;
14327: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL) : TMatrixGL;
14328: Function glCreateRotationMatrixX( const sine, cosine : Single) : TMatrixGL;
14329: Function glCreateRotationMatrixX1( const angle : Single) : TMatrixGL;
14330: Function glCreateRotationMatrixY( const sine, cosine : Single) : TMatrixGL;
14331: Function glCreateRotationMatrixY1( const angle : Single) : TMatrixGL;
14332: Function glCreateRotationMatrixZ( const sine, cosine : Single) : TMatrixGL;
14333: Function glCreateRotationMatrixZ1( const angle : Single) : TMatrixGL;
14334: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single) : TMatrixGL;
14335: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single) : TMatrixGL;
14336: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix
14337: Function glMatrixMultiply( const M1, M2 : TAffineMatrix) : TAffineMatrix;
14338: Function glMatrixMultiply1( const M1, M2 : TMatrixGL) : TMatrixGL;
14339: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL);
14340: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL) : TVectorGL;
14341: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix) : TVectorGL;
14342: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL) : TAffineVector;
14343: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix) : TAffineVector;
14344: Function glMatrixDeterminant( const M : TAffineMatrix) : Single;
14345: Function glMatrixDeterminant1( const M : TMatrixGL) : Single;
14346: Procedure glAdjointMatrix( var M : TMatrixGL);
14347: Procedure glAdjointMatrix1( var M : TAffineMatrix);
14348: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single);
14349: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single);
14350: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector);
14351: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL);
14352: Procedure glNormalizeMatrix( var M : TMatrixGL);
14353: Procedure glTransposeMatrix( var M : TAffineMatrix);
14354: Procedure glTransposeMatrix1( var M : TMatrixGL);
14355: Procedure glInvertMatrix( var M : TMatrixGL);
14356: Procedure glInvertMatrix1( var M : TAffineMatrix);
14357: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL) : TMatrixGL;
14358: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations) : Boolean;
14359: Function glPlaneMake( const p1, p2, p3 : TAffineVector) : THmgPlane;
14360: Function glPlaneMake1( const p1, p2, p3 : TVectorGL) : THmgPlane;
14361: Function glPlaneMake2( const point, normal : TAffineVector) : THmgPlane;
14362: Function glPlaneMake3( const point, normal : TVectorGL) : THmgPlane;
14363: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane);
14364: Procedure glNormalizePlane( var plane : THmgPlane);
14365: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector) : Single;
14366: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL) : Single;
14367: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector) : TAffineVector;
14368: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector);
14369: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector);
14370: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL) : Boolean;
14371: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector) : Boolean;
14372: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL) : Single;
14373: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector) : Single;
14374: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector
14375: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector) : single
14376: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector) : TAffineVector
14377: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector) : Single
14378: Procedure SglementSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
Segment0Closest, Segment1Closest : TAffineVector)
14379: Function glSegmentSegmentDistance(const S0Start,S0Stop,S1Start,S1Stop:TAffineVector):single
14380: TEulerOrder', '( eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX)
14381: Function glQuaternionMake( const Imag : array of Single; Real : Single) : TQuaternion
14382: Function glQuaternionConjugate( const Q : TQuaternion) : TQuaternion
14383: Function glQuaternionMagnitude( const Q : TQuaternion) : Single
14384: Procedure glNormalizeQuaternion( var Q : TQuaternion)
14385: Function glQuaternionFromPoints( const V1, V2 : TAffineVector) : TQuaternion
14386: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector)
14387: Function glQuaternionFromMatrix( const mat : TMatrixGL) : TQuaternion
14388: Function glQuaternionToMatrix( quat : TQuaternion) : TMatrixGL
14389: Function glQuaternionToAffineMatrix( quat : TQuaternion) : TAffineMatrix
14390: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector) : TQuaternion
14391: Function glQuaternionFromRollPitchYaw( const r, p, y : Single) : TQuaternion
14392: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder) : TQuaternion
14393: Function glQuaternionMultiply( const qL, qR : TQuaternion) : TQuaternion
14394: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single) : TQuaternion;
14395: Function glQuaternionSlerpl( const source, dest : TQuaternion; const t : Single) : TQuaternion;
14396: Function glLnXp1( X : Extended) : Extended

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14397: Function glLog10( X : Extended ) : Extended
14398: Function glLog2( X : Extended ) : Extended;
14399: Function glLog2l( X : Single ) : Single;
14400: Function glLogN( Base, X : Extended) : Extended
14401: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14402: Function glPower( const Base, Exponent : Single ) : Single;
14403: Function glPowerl( Base : Single; Exponent : Integer ) : Single;
14404: Function glDegToRad( const Degrees : Extended ) : Extended;
14405: Function glDegToRad1( const Degrees : Single ) : Single;
14406: Function glRadToDeg( const Radians : Extended ) : Extended;
14407: Function glRadToDeg1( const Radians : Single ) : Single;
14408: Function glNormalizeAngle( angle : Single ) : Single
14409: Function glNormalizeDegAngle( angle : Single ) : Single
14410: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14411: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14412: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14413: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14414: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14415: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14416: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14417: Function glArcCos( const X : Extended ) : Extended;
14418: Function glArcCos1( const x : Single ) : Single;
14419: Function glArcSin( const X : Extended ) : Extended;
14420: Function glArcSin1( const X : Single ) : Single;
14421: Function glArcTan2l( const Y, X : Extended ) : Extended;
14422: Function glArcTan21( const Y, X : Single ) : Single;
14423: Function glFastArcTan2( y, x : Single ) : Single
14424: Function glTan( const X : Extended ) : Extended;
14425: Function glTan1( const X : Single ) : Single;
14426: Function glCoTan( const X : Extended ) : Extended;
14427: Function glCoTan1( const X : Single ) : Single;
14428: Function glSinh( const x : Single ) : Single;
14429: Function glSinh1( const x : Double ) : Double;
14430: Function glCosh( const x : Single ) : Single;
14431: Function glCosh1( const x : Double ) : Double;
14432: Function glRSqrt( v : Single ) : Single
14433: Function glRLength( x, y : Single ) : Single
14434: Function glISqrt( i : Integer ) : Integer
14435: Function glILength( x, y : Integer ) : Integer;
14436: Function glILength1( x, y, z : Integer ) : Integer;
14437: Procedure glRegisterBasedExp
14438: Procedure glRandomPointOnSphere( var p : TAffineVector )
14439: Function glRoundInt( v : Single ) : Single;
14440: Function glRoundInt1( v : Extended ) : Extended;
14441: Function glTrunc( v : Single ) : Integer;
14442: Function glTrunc64( v : Extended ) : Int64;
14443: Function glInt( v : Single ) : Single;
14444: Function glInt1( v : Extended ) : Extended;
14445: Function glFrac( v : Single ) : Single;
14446: Function glFract( v : Extended ) : Extended;
14447: Function glRound( v : Single ) : Integer;
14448: Function glRound64( v : Single ) : Int64;
14449: Function glRound641( v : Extended ) : Int64;
14450: Function glTrunc( X : Extended ) : Int64
14451: Function glRound( X : Extended ) : Int64
14452: Function glFrac( X : Extended ) : Extended
14453: Function glCeil( v : Single ) : Integer;
14454: Function glCeil64( v : Extended ) : Int64;
14455: Function glFloor( v : Single ) : Integer;
14456: Function glFloor64( v : Extended ) : Int64;
14457: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14458: Function glSign( x : Single ) : Integer
14459: Function glIsInRange( const x, a, b : Single ) : Boolean;
14460: Function glIsInRangel( const x, a, b : Double ) : Boolean;
14461: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14462: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;
14463: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14464: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14465: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14466: Function glMinFloat3( const v1, v2 : Single ) : Single;
14467: Function glMinFloat4( const v : array of Single ) : Single;
14468: Function glMinFloat5( const v1, v2 : Double ) : Double;
14469: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14470: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14471: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14472: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14473: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14474: //Function MaxFloat( values : PDoubleArray; nbItems : Integer ) : Double;
14475: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer ) : Extended;
14476: Function glMaxFloat2( const v : array of Single ) : Single;
14477: Function glMaxFloat3( const v1, v2 : Single ) : Single;
14478: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14479: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14480: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14481: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14482: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14483: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14484: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14485: Function glMaxInteger( const v1, v2 : Integer ) : Integer;

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14486: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14487: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14488: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14489: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14490: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14491: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14492: Procedure glScaleFloatArray( var values : TSsingleArray; factor : Single );
14493: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14494: Procedure glOffsetFloatArray( var values : array of Single; delta : Single );
14495: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14496: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14497: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14498: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14499: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14500: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single;
14501: Function glMinAbsXYZComponent( v : TVectorGL ) : Single;
14502: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14503: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14504: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14505: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14506: Procedure glSortArrayAscending( var a : array of Extended );
14507: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14508: Function glClampValue1( const aValue, aMin : Single ) : Single;
14509: Function glGeometryOptimizationMode : String;
14510: Procedure glBeginFPUOnlySection;
14511: Procedure glEndFPUOnlySection;
14512: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL;
14513: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector;
14514: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector;
14515: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector;
14516: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector;
14517: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector;
14518: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector;
14519: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean;
14520: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word );
14521: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14522: Function glTurnl( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14523: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14524: Function glPitchl( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14525: Function glRoll( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14526: Function glRolll(const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14527: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single;
14528: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const
sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14529: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14530: Function glSphereVisibleRadius( distance, radius : Single ) : Single;
14531: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum;
14532: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14533: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14534: Function glIsVolumeClipped2( const min,max:TAffineVector;const rcci : TRenderContextClippingInfo ) : Bool;
14535: Function glIsVolumeClipped3( const objPos:TAffineVector;const objRadius:Single;const
Frustum:TFrustum:Bool );
14536: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL;
14537: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL;
14538: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL;
14539: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix;
14540: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL;
14541: 'cPI','Single').setExtended( 3.141592654 );
14542: 'cPIdiv180','Single').setExtended( 0.017453292 );
14543: 'c180divPI','Single').setExtended( 57.29577951 );
14544: 'c2PI','Single').setExtended( 6.283185307 );
14545: 'cPIdiv2','Single').setExtended( 1.570796326 );
14546: 'cPIdiv4','Single').setExtended( 0.785398163 );
14547: 'c3PIdiv4','Single').setExtended( 2.35619449 );
14548: 'cInv2PI','Single').setExtended( 1 / 6.283185307 );
14549: 'cInv360','Single').setExtended( 1 / 360 );
14550: 'c180','Single').setExtended( 180 );
14551: 'c360','Single').setExtended( 360 );
14552: 'cOneHalf','Single').setExtended( 0.5 );
14553: 'cLn10','Single').setExtended( 2.302585093 );
14554: {'MinSingle','Extended').setExtended( 1.5e-45 );
14555: 'MaxSingle','Extended').setExtended( 3.4e+38 );
14556: 'MinDouble','Extended').setExtended( 5.0e-324 );
14557: 'MaxDouble','Extended').setExtended( 1.7e+308 );
14558: 'MinExtended','Extended').setExtended( 3.4e-4932 );
14559: 'MaxExtended','Extended').setExtended( 1.1e+4932 );
14560: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18 );
14561: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18 );
14562: end;
14563:
14564: procedure SIRegister_GLVectorFileObjects(CL: TPPSPascalCompiler);
14565: begin
14566:   AddClassN(FindClass('TOBJECT'), 'TMeshObjectList';
14567:   (FindClass('TOBJECT'), 'TFaceGroups';
14568:   TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter );
14569:   TMeshAutoCenterings', 'set of TMeshAutoCentering

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14570: TMeshObjectMode', '(
14571:   momTriangles, momTriangleStrip, momFaceGroups )
14572:   SIRegister_TBaseMeshObject(CL);
14573:   (FindClass('TOBJECT'), 'TSkeletonFrameList
14574:     TSkeletonFrameTransform', '(
14575:       sftRotation, sftQuaternion )
14576:       SIRegister_TSkeletonFrame(CL);
14577:       SIRegister_TSkeletonFrameList(CL);
14578:       (FindClass('TOBJECT'), 'TSkeletonBone
14579:         SIRegister_TSkeletonBoneList(CL);
14580:         SIRegister_TSkeletonBone(CL);
14581:         (FindClass('TOBJECT'), 'TSkeletonColliderList
14582:           SIRegister_TSkeletonCollider(CL);
14583:           SIRegister_TSkeletonColliderList(CL);
14584:           (FindClass('TOBJECT'), 'TGLBaseMesh
14585:             TBleededLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14586:               +'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14587:               +'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14588:               +'QuaternionList; end
14589:             SIRegister_TSkeleton(CL);
14590:             TMeshObjectRenderingOption', '(
14591:               moroGroupByMaterial )
14592:             TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14593:             SIRegister_TMeshObject(CL);
14594:             //TMeshObjectListClass', 'class of TMeshObjectList
14595:             (FindClass('TOBJECT'), 'TMeshMorphTargetList
14596:               SIRegister_TMeshMorphTarget(CL);
14597:               SIRegister_TMeshMorphTargetList(CL);
14598:               SIRegister_TMorphableMeshObject(CL);
14599:               TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14600:               //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not work
14601:               //PVerticesBoneWeights', '^VerticesBoneWeights // will not work
14602:               TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14603:               SIRegister_TSkeletonMeshObject(CL);
14604:               SIRegister_TFaceGroup(CL);
14605:               TFaceGroupMeshMode', '(
14606:                 fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14607:                 +'@Triangles, fgmmTriangleFan, fgmmQuads )
14608:                 SIRegister_TFGVertexIndexList(CL);
14609:                 SIRegister_TFGVertexNormalTexIndexList(CL);
14610:                 SIRegister_TFGIndexTexCoordList(CL);
14611:                 SIRegister_TFaceGroups(CL);
14612:                 TMeshNormalsOrientation', '(
14613:                   mnoDefault, mnoInvert )
14614:                   SIRegister_TGLGLSMVectorFile(CL);
14615:                   SIRegister_TGLBaseMesh(CL);
14616:                   SIRegister_TGLFreeForm(CL);
14617:                   TGLActorOption', '( aoSkeletonNormalizeNormals )
14618:                   TGLActorOptions', 'set of TGLActorOption
14619:                   'cDefaultGLOptions', 'LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14620:                   (FindClass('TOBJECT'), 'TGLActor
14621:                     TActorAnimationReference', '(
14622:                       aarMorph, aarSkeleton, aarNone )
14623:                       SIRegister_TActorAnimation(CL);
14624:                       TActorAnimationName', 'string
14625:                       SIRegister_TActorAnimations(CL);
14626:                       SIRegister_TGLBaseAnimationController(CL);
14627:                       SIRegister_TGLAnimationController(CL);
14628:                       TActorFrameInterpolation', '(
14629:                         afpNone, afpLinear )
14630:                         TActorAnimationMode', '(
14631:                           aamNone, aamPlayOnce, aamLoop, aamBounc'
14632:                           +'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14633:                           SIRegister_TGLActor(CL);
14634:                           SIRegister_TVectorFileFormat(CL);
14635:                           SIRegister_TVectorFileFormatsList(CL);
14636:                           (FindClass('TOBJECT'), 'EInvalidVectorFile
14637:                             Function GetVectorFileFormats : TVectorFileFormatsList
14638:                             Function VectorFileFormatsFilter : String
14639:                             Function VectorFileFormatsSaveFilter : String
14640:                             Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass)
14641:                             Procedure UnregisterVectorFileClass( aClass : TVectorFileClass)
14642:                           end;
14643:                           procedure SIRegister_AxCtrls(CL: TPPSPascalCompiler);
14644:                           begin
14645:                             'Class_DColorPropPage', 'TGUID '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14646:                             'Class_DFontPropPage', 'TGUID '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14647:                             'Class_DPicturePropPage', 'TGUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14648:                             'Class_DStringPropPage', 'TGUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14649:                             SIRegister_TOLEStream(CL);
14650:                             (FindClass('TOBJECT'), 'TConnectionPoints
14651:                               TConnectionKind', '(
14652:                                 ckSingle, ckMulti )
14653:                                 SIRegister_TConnectionPoint(CL);
14654:                                 SIRegister_TConnectionPoints(CL);
14655:                                 TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14656:                                   (FindClass('TOBJECT'), 'TActiveXControlFactory
14657:                                     SIRegister_TActiveXControl(CL);
14658:                                     //TActiveXControlClass', 'class of TActiveXControl
14659:                                     SIRegister_TActiveXControlFactory(CL);
14660:                                     SIRegister_TActiveFormControl(CL);

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14659:  SIRegister_TActiveForm(CL);
14660:  //TActiveFormClass', 'class of TActiveForm
14661:  SIRegister_TActiveFormFactory(CL);
14662:  (FindClass('TOBJECT'), 'TPropertyPageImpl
14663:  SIRegister_TPropertyPage(CL);
14664:  //TPropertyPageClass', 'class of TPropertyPage
14665:  SIRegister_TPropertyPageImpl(CL);
14666:  SIRegister_TActiveXPropertyPage(CL);
14667:  SIRegister_TActiveXPropertyPageFactory(CL);
14668:  SIRegister_TCustomAdapter(CL);
14669:  SIRegister_TAdapterNotifier(CL);
14670:  SIRegister_IFontAccess(CL);
14671:  SIRegister_TFontAdapter(CL);
14672:  SIRegister_IPictureAccess(CL);
14673:  SIRegister_TPictureAdapter(CL);
14674:  SIRegister_TGraphic(CL);
14675:  SIRegister_TStringsAdapter(CL);
14676:  SIRegister_TReflectorWindow(CL);
14677:  Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14678:  Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14679:  Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14680:  Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14681:  Procedure SetOlePicture( Picture : TPicture; Olepicture : IPictureDisp)
14682:  Procedure GetOLEStrings( Strings : TStrings; var OleStrings : IStrings)
14683:  Procedure SetOLEStrings( Strings : TStrings; OleStrings : IStrings)
14684:  Function ParkingWindow : HWND
14685: end;
14686:
14687: procedure SIRegister_synaip(CL: TPSPascalCompiler);
14688: begin
14689:  // TIP6Bytes = array [0..15] of Byte;
14690:  {:binary form of IPv6 adress (for string conversion routines)}
14691:  // TIP6Words = array [0..7] of Word;
14692:  AddTypeS('TIP6Bytes', 'array [0..15] of Byte;');
14693:  AddTypeS('TIP6Words', 'array [0..7] of Word;');
14694:  AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14695:  Function synaIsIP( const Value : string ) : Boolean';
14696:  Function synaIsIP6( const Value : string ) : Boolean';
14697:  Function synaIPToID( Host : string ) : Ansistring';
14698:  Function synaStrToIP6( value : string ) : TIP6Bytes';
14699:  Function synaIP6ToStr( value : TIP6Bytes ) : string';
14700:  Function synaStrToIp( value : string ) : integer';
14701:  Function synaIpToStr( value : integer ) : string';
14702:  Function synaReverseIP( Value : AnsiString ) : AnsiString';
14703:  Function synaReverseIP6( Value : AnsiString ) : AnsiString';
14704:  Function synaExpandIP6( Value : AnsiString ) : AnsiString';
14705:  Function xStrToIP( const Value : String ) : TIPAdr';
14706:  Function xIPToStr( const Adresse : TIPAdr ) : String';
14707:  Function IPToCardinal( const Adresse : TIPAdr ) : Cardinal';
14708:  Function CardinalToIP( const Value : Cardinal ) : TIPAdr';
14709: end;
14710:
14711: procedure SIRegister_synacode(CL: TPSPascalCompiler);
14712: begin
14713:  AddTypeS('TSpecials', 'set of Char');
14714:  Const('SpecialChar','TSpecials').SetSet( '=()[]<>;:@/?\\"_');
14715:  Const('URLFullSpecialChar','TSpecials').SetSet( ':/?:@=&#+' );
14716:  Const('TableBase64' , 'ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdeffghi jklmnopqrstuvwxyz0123456789+=');
14717:  Const('TableBase64mod', 'ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdeffghi jklmnopqrstuvwxyz0123456789,+=' );
14718:  Const('TableUU' , '!'#$%&()'*+,-./0123456789:+<>?@ABCDEFIGHJKLMNOPQRSTUVWXYZ[\]^_');
14719:  Const('TableXX' , '+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZZabcdeffghi jklmnopqrstuvwxyz');
14720:  Function DecodeTriplet( const Value : AnsiString; Delimiter : Char ) : AnsiString';
14721:  Function DecodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14722:  Function DecodeURL( const Value : AnsiString ) : AnsiString';
14723:  Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials ) : AnsiString';
14724:  Function EncodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14725:  Function EncodeSafeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14726:  Function EncodeURLElement( const Value : AnsiString ) : AnsiString';
14727:  Function EncodeURL( const Value : AnsiString ) : AnsiString';
14728:  Function Decode4to3( const Value , Table : AnsiString ) : AnsiString';
14729:  Function Decode4to3Ex( const Value , Table : AnsiString ) : AnsiString';
14730:  Function Encode3to4( const Value , Table : AnsiString ) : AnsiString';
14731:  Function synDecodeBase64( const Value : AnsiString ) : AnsiString';
14732:  Function synEncodeBase64( const Value : AnsiString ) : AnsiString';
14733:  Function DecodeBase64mod( const Value : AnsiString ) : AnsiString';
14734:  Function EncodeBase64mod( const Value : AnsiString ) : AnsiString';
14735:  Function DecodeUU( const Value : AnsiString ) : AnsiString';
14736:  Function EncodeUU( const Value : AnsiString ) : AnsiString';
14737:  Function DecodeXXX( const Value : AnsiString ) : AnsiString';
14738:  Function DecodeYEnc( const Value : AnsiString ) : AnsiString';
14739:  Function UpdateCrc32( Value : Byte; Crc32 : Integer ) : Integer';
14740:  Function synCrc32( const Value : AnsiString ) : Integer';
14741:  Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word';
14742:  Function Crc16( const Value : AnsiString ) : Word';
14743:  Function synMD5( const Value : AnsiString ) : AnsiString';
14744:  Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString';
14745:  Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString';
14746:  Function synSHA1( const Value : AnsiString ) : AnsiString';
14747:  Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString';

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14748: Function SHA1LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14749: Function synMD4( const Value : AnsiString ) : AnsiString');
14750: end;
14751;
14752: procedure SIRegister_synachar(CL: TPSPascalCompiler);
14753: begin
14754:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14755:             + 'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14756:             + 'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14757:             + '4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14758:             + '_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14759:             + 'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14760:             + ', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14761:             + ', NEXTSTEP, ARMASCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14762:             + 'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14763:             + '1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14764:             + '2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14765:             + 'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14766:             + 'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14767:             + ', CP864, CP865, CP869, CP1125 ')');
14768:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14769: Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14770: Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar; const
14771: TransformTable : array of Word) : AnsiString');
14772: Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
14773: TransformTable : array of Word; Translit : Boolean) : AnsiString');
14774: Function GetCurCP : TMimeChar');
14775: Function GetCurOEMCP : TMimeChar');
14776: Function GetCPFromID( Value : AnsiString) : TMimeChar');
14777: Function GetIDFromCP( Value : TMimeChar) : AnsiString');
14778: Function NeedCharsetConversion( const Value : AnsiString) : Boolean');
14779: Function IdealCharsetCoding(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14780: Function GetBOM( Value : TMimeChar) : AnsiString');
14781: Function StringToWide( const Value : AnsiString) : WideString');
14782: Function WideToString( const Value : WideString) : AnsiString');
14783: end;
14784;
14785: procedure SIRegister_synamisc(CL: TPSPascalCompiler);
14786: begin
14787:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14788:   Procedure WakeOnLan( MAC, IP : string)');
14789:   Function GetDNS : string');
14790:   Function GetIEProxy( protocol : string) : TProxySetting');
14791:   Function GetLocalIPs : string');
14792: end;
14793: procedure SIRegister_synaser(CL: TPSPascalCompiler);
14794: begin
14795:   AddConstantN('synCR', 'Char #$0d');
14796:   Const('synLF', 'Char #$0a');
14797:   Const('cSerialChunk', 'LongInt'( 8192));
14798:   Const('LockfileDirectory', 'String '/var/lock');
14799:   Const('PortIsClosed', 'LongInt'(- 1));
14800:   Const('ErrAlreadyOwned', 'LongInt'( 9991));
14801:   Const('ErrAlreadyInUse', 'LongInt'( 9992));
14802:   Const('ErrWrongParameter', 'LongInt'( 9993));
14803:   Const('ErrPortNotOpen', 'LongInt'( 9994));
14804:   Const('ErrNoDeviceAnswer', 'LongInt'( 9995));
14805:   Const('ErrMaxBuffer', 'LongInt'( 9996));
14806:   Const('ErrTimeout', 'LongInt'( 9997));
14807:   Const('ErrNotRead', 'LongInt'( 9998));
14808:   Const('ErrFrame', 'LongInt'( 9999));
14809:   Const('ErrOverrun', 'LongInt'( 10000));
14810:   Const('ErrRxOver', 'LongInt'( 10001));
14811:   Const('ErrRxParity', 'LongInt'( 10002));
14812:   Const('ErrTxFull', 'LongInt'( 10003));
14813:   Const('dcb_Binary', 'LongWord')( $00000001);
14814:   Const('dcb_ParityCheck', 'LongWord')( $00000002);
14815:   Const('dcb_OutxCtsFlow', 'LongWord')( $00000004);
14816:   Const('dcb_OutxDsrFlow', 'LongWord')( $00000008);
14817:   Const('dcb_DtrControlMask', 'LongWord')( $00000030);
14818:   Const('dcb_DtrControlDisable', 'LongWord')( $00000000);
14819:   Const('dcb_DtrControlEnable', 'LongWord')( $00000010);
14820:   Const('dcb_DtrControlHandshake', 'LongWord')( $00000020);
14821:   Const('dcb_DsrSensitivity', 'LongWord')( $00000040);
14822:   Const('dcb_TXContinueOnXoff', 'LongWord')( $00000080);
14823:   Const('dcb_OutX', 'LongWord')( $00000100);
14824:   Const('dcb_InX', 'LongWord')( $00000200);
14825:   Const('dcb_ErrorChar', 'LongWord')( $00000400);
14826:   Const('dcb_NullStrip', 'LongWord')( $00000800);
14827:   Const('dcb_RtsControlMask', 'LongWord')( $00003000);
14828:   Const('dcb_RtsControlDisable', 'LongWord')( $00000000);
14829:   Const('dcb_RtsControlEnable', 'LongWord')( $00001000);
14830:   Const('dcb_RtsControlHandshake', 'LongWord')( $00002000);
14831:   Const('dcb_RtsControlToggle', 'LongWord')( $00003000);
14832:   Const('dcb_AbortOnError', 'LongWord')( $00004000);
14833:   Const('dcb_Reserves', 'LongWord')( $FFFF8000);
14834:   Const('synSBl', 'LongInt'( 0));

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14835: Const('SBlandHalf','LongInt'( 1);
14836: Const('synSB2','LongInt'( 2);
14837: Const('synINVALID_HANDLE_VALUE','LongInt'( THandle ( - 1 )));
14838: Const('CS7fix','LongWord')( $00000020);
14839: AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long'
14840:   +'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par'
14841:   +'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : '
14842:   +'CHAR; EofChar : CHAR; EvtChar : CHAR; wReservedl : Word; end');
14843: //AddTypeS('PDCB', '^TDCB // will not work');
14844: //Const('MaxRates','LongInt'( 18);
14845: //Const('MaxRates','LongInt'( 30);
14846: //Const('MaxRates','LongInt'( 19);
14847: Const('O_SYNC','LongWord')( $0080);
14848: Const('synOK','LongInt'( 0);
14849: Const('synErr','LongInt'( integer ( - 1 )));
14850: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
HR_WriteCount, HR_Wait )');
14851: Type('THookSerialStatus',Procedure(Sender: TObject; Reason:THookSerialReason; const Value:string'));
14852: SIRegister_ESynaSerError(CL);
14853: SIRegister_TBlockSerial(CL);
14854: Function GetSerialPortNames : string';
14855: end;
14856:
14857: procedure SIRegister_synaicnv(CL: TPSCompiler);
14858: begin
14859: Const('DLLIconvName','String 'libiconv.so');
14860: Const('DLLIconvName','String 'iconv.dll');
14861: AddTypeS('size_t', 'Cardinal');
14862: AddTypes('iconv_t', 'Integer');
14863: //AddTypeS('iconv_t', 'Pointer');
14864: AddTypes('argptr', 'iconv_t');
14865: Function SynalconvOpen( const tocode, fromcode : Ansistring) : iconv_t';
14866: Function SynalconvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t';
14867: Function SynalconvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t';
14868: Function Synalconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14869: Function SynalconvClose( var cd : iconv_t) : integer';
14870: Function SynalconvCtl( cd : iconv_t; request : integer; argument : argptr) : integer';
14871: Function IsIconvloaded : Boolean';
14872: Function InitIconvInterface : Boolean';
14873: Function DestroyIconvInterface : Boolean';
14874: Const('ICONV_TRIVIALP','LongInt'( 0));
14875: Const('ICONV_GET_TRANSLITERATE','LongInt'( 1));
14876: Const('ICONV_SET_TRANSLITERATE','LongInt'( 2));
14877: Const('ICONV_GET_DISCARD_ILSEQ','LongInt'( 3));
14878: Const('ICONV_SET_DISCARD_ILSEQ','LongInt'( 4));
14879: end;
14880:
14881: procedure SIRegister_pingsend(CL: TPSCompiler);
14882: begin
14883: Const('ICMP_ECHO','LongInt'( 8);
14884: Const('ICMP_ECHOREPLY','LongInt'( 0);
14885: Const('ICMP_UNREACH','LongInt'( 3);
14886: Const('ICMP_TIME_EXCEEDED','LongInt'( 11);
14887: Const('ICMP6_ECHO','LongInt'( 128);
14888: Const('ICMP6_ECHOREPLY','LongInt'( 129);
14889: Const('ICMP6_UNREACH','LongInt'( 1);
14890: Const('ICMP6_TIME_EXCEEDED','LongInt'( 3);
14891: AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOT'
14892:   +'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14893: SIRegister_TPINGSend(CL);
14894: Function PingHost( const Host : string) : Integer';
14895: Function TraceRouteHost( const Host : string) : string';
14896: end;
14897:
14898: procedure SIRegister_asnutil(CL: TPSCompiler);
14899: begin
14900: AddConstantN('synASN1_BOOL','LongWord')( $01);
14901: Const('synASN1_INT','LongWord')( $02);
14902: Const('synASN1_OCTSTR','LongWord')( $04);
14903: Const('synASN1_NULL','LongWord')( $05);
14904: Const('synASN1_OBJID','LongWord')( $06);
14905: Const('synASN1_ENUM','LongWord')( $0a);
14906: Const('synASN1_SEQ','LongWord')( $30);
14907: Const('synASN1_SETOF','LongWord')( $31);
14908: Const('synASN1_IPADDR','LongWord')( $40);
14909: Const('synASN1_COUNTER','LongWord')( $41);
14910: Const('synASN1_GAUGE','LongWord')( $42);
14911: Const('synASN1_TIMETICKS','LongWord')( $43);
14912: Const('synASN1_OPAQUE','LongWord')( $44);
14913: Function synASNEncOIDItem( Value : Integer) : AnsiString';
14914: Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString) : Integer';
14915: Function synASNEncLen( Len : Integer) : AnsiString';
14916: Function synASNDecLen( var Start : Integer; const Buffer : AnsiString) : Integer';
14917: Function synASNEncInt( Value : Integer) : AnsiString';
14918: Function synASNEncUInt( Value : Integer) : AnsiString';
14919: Function synASNObject( const Data : AnsiString; ASNType : Integer) : AnsiString';
14920: Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14921: Function synMibToId( Mib : String) : AnsiString';
14922: Function synIdToMib( const Id : AnsiString) : String';

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14923: Function synIntMibToStr( const Value : AnsiString ) : AnsiString';
14924: Function ASNdump( const Value : AnsiString ) : AnsiString';
14925: Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings): Boolean';
14926: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14927: end;
14928:
14929: procedure SIRegister_ldapsend(CL: TPSPascalCompiler);
14930: begin
14931:   Const('cLDAPProtocol','String '389');
14932:   Const('LDAP_ASN1_BIND_REQUEST','LongWord')( $60);
14933:   Const('LDAP_ASN1_BIND_RESPONSE','LongWord')( $61);
14934:   Const('LDAP_ASN1_UNBIND_REQUEST','LongWord')( $42);
14935:   Const('LDAP_ASN1_SEARCH_REQUEST','LongWord')( $63);
14936:   Const('LDAP_ASN1_SEARCH_ENTRY','LongWord')( $64);
14937:   Const('LDAP_ASN1_SEARCH_DONE','LongWord')( $65);
14938:   Const('LDAP_ASN1_SEARCH_REFERENCE','LongWord')( $73);
14939:   Const('LDAP_ASN1_MODIFY_REQUEST','LongWord')( $66);
14940:   Const('LDAP_ASN1 MODIFY_RESPONSE','LongWord')( $67);
14941:   Const('LDAP_ASN1_ADD_REQUEST','LongWord')( $68);
14942:   Const('LDAP_ASN1_ADD_RESPONSE','LongWord')( $69);
14943:   Const('LDAP_ASN1_DEL_REQUEST','LongWord')( $4A);
14944:   Const('LDAP_ASN1_DEL_RESPONSE','LongWord')( $6B);
14945:   Const('LDAP_ASN1 MODIFYDN_REQUEST','LongWord')( $6C);
14946:   Const('LDAP_ASN1 MODIFYDN_RESPONSE','LongWord')( $6D);
14947:   Const('LDAP_ASN1_COMPARE_REQUEST','LongWord')( $6E);
14948:   Const('LDAP_ASN1_COMPARE_RESPONSE','LongWord')( $6F);
14949:   Const('LDAP_ASN1_ABANDON_REQUEST','LongWord')( $70);
14950:   Const('LDAP_ASN1 EXT_REQUEST','LongWord')( $77);
14951:   Const('LDAP_ASN1 EXT_RESPONSE','LongWord')( $78);
14952:   SIRegister_TLDAPAttribute(CL);
14953:   SIRegister_TLDAPAttributeList(CL);
14954:   SIRegister_TLDAPResult(CL);
14955:   SIRegister_TLDAPResultList(CL);
14956:   AddTypeS('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14957:   AddTypeS('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14958:   AddTypeS('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14959:   SIRegister_TLDAPSnd(CL);
14960:   Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14961: end;
14962:
14963:
14964: procedure SIRegister_slogsend(CL: TPSPascalCompiler);
14965: begin
14966:   Const('cSysLogProtocol','String '514');
14967:   Const('FCL_Kernel','LongInt'( 0);
14968:   Const('FCL_UserLevel','LongInt'( 1);
14969:   Const('FCL_MailSystem','LongInt'( 2);
14970:   Const('FCL_System','LongInt'( 3);
14971:   Const('FCL_Security','LongInt'( 4);
14972:   Const('FCL_Syslogd','LongInt'( 5);
14973:   Const('FCL_Printer','LongInt'( 6);
14974:   Const('FCL_News','LongInt'( 7);
14975:   Const('FCL_UUCP','LongInt'( 8);
14976:   Const('FCL_Clock','LongInt'( 9);
14977:   Const('FCL_Authorization','LongInt'( 10);
14978:   Const('FCL_FTP','LongInt'( 11);
14979:   Const('FCL_NTP','LongInt'( 12);
14980:   Const('FCL_LogAudit','LongInt'( 13);
14981:   Const('FCL_LogAlert','LongInt'( 14);
14982:   Const('FCL_Time','LongInt'( 15);
14983:   Const('FCL_Local0','LongInt'( 16);
14984:   Const('FCL_Local1','LongInt'( 17);
14985:   Const('FCL_Local2','LongInt'( 18);
14986:   Const('FCL_Local3','LongInt'( 19);
14987:   Const('FCL_Local4','LongInt'( 20);
14988:   Const('FCL_Local5','LongInt'( 21);
14989:   Const('FCL_Local6','LongInt'( 22);
14990:   Const('FCL_Local7','LongInt'( 23);
14991:   Type(TSyslogSeverity,'(Emergency, Alert, Critical, Error, Warning,Notice,Info,Debug);
14992:   SIRegister_TSyslogMessage(CL);
14993:   SIRegister_TSyslogSend(CL);
14994:   Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const Content:string):Boolean;
14995: end;
14996:
14997:
14998: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
14999: begin
15000:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
15001:   SIRegister_TMessHeader(CL);
15002:   //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
15003:   SIRegister_TMimeMess(CL);
15004: end;
15005:
15006: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
15007: begin
15008:   (FindClass('TOBJECT'),'TMimePart');
15009:   AddTypeS('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
15010:   AddTypeS('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');

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15011: AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
15012: SIRegister_TMimePart(CL);
15013: Const('MaxMimeType','LongInt'( 25));
15014: Function GenerateBoundary : string';
15015: end;
15016:
15017: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
15018: begin
15019:   Function InlineDecode( const Value : string; CP : TMimeChar) : string';
15020:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string';
15021:   Function NeedInline( const Value : AnsiString) : boolean';
15022:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string');
15023:   Function InlineCode( const Value : string) : string';
15024:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string');
15025:   Function InlineEmail( const Value : string) : string');
15026: end;
15027:
15028: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
15029: begin
15030:   Const('cFtpProtocol','String '21');
15031:   Const('cFtpDataProtocol','String '20');
15032:   Const('FTP_OK','LongInt'( 255);
15033:   Const('FTP_ERR','LongInt'( 254);
15034:   AddTypeS('TFTPStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
15035:   SIRegister_TFTPListRec(CL);
15036:   SIRegister_TFTPList(CL);
15037:   SIRegister_TFTPSend(CL);
15038:   Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
15039:   Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
15040:   Function FtpInterServerTransfer(const FromIP,FromPort,FromFile,FromUser,FromPass : string; const ToIP,
ToPort,ToFile,ToUser,ToPass : string) : Boolean';
15041: end;
15042:
15043: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
15044: begin
15045:   Const('cHttpProtocol','String '80');
15046:   AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
15047:   SIRegister_THTTPSend(CL);
15048:   Function HttpGetText( const URL : string; const Response : TStrings) : Boolean';
15049:   Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean';
15050:   Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean';
15051:   Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean';
15052:   Function HttpPostfile(const URL,FieldName,FileName:string;const Data:TStream;const
ResultData:TStrings):Bool;
15053: end;
15054:
15055: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
15056: begin
15057:   Const('cSmtpProtocol','String '25');
15058:   SIRegister_TSMTSPSend(CL);
15059:   Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
Passw:string):Bool;
15060:   Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
15061:   Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Username, Password : string):Boolean';
15062: end;
15063:
15064: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
15065: begin
15066:   Const('cSnmpProtocol','String '161');
15067:   Const('cSnmpTrapProtocol','String '162');
15068:   Const('SNMP_V1','LongInt'( 0);
15069:   Const('SNMP_V2C','LongInt'( 1);
15070:   Const('SNMP_V3','LongInt'( 3);
15071:   Const('PDUGetRequest','LongWord')( $A0);
15072:   Const('PDUGetNextRequest','LongWord')( $A1);
15073:   Const('PDUGetResponse','LongWord')( $A2);
15074:   Const('PDUSetRequest','LongWord')( $A3);
15075:   Const('PDUTrap','LongWord')( $A4);
15076:   Const('PDUGetBulkRequest','LongWord')( $A5);
15077:   Const('PDUInformRequest','LongWord')( $A6);
15078:   Const('PDUTrapV2','LongWord')( $A7);
15079:   Const('PDUReport','LongWord')( $A8);
15080:   Const('ENOError','LongInt' 0;
15081:   Const('ETooBig','LongInt')( 1);
15082:   Const('ENoSuchName','LongInt'( 2);
15083:   Const('EBadValue','LongInt'( 3);
15084:   Const('EReadOnly','LongInt'( 4);
15085:   Const('EGenErr','LongInt'( 5);
15086:   Const('ENoAccess','LongInt'( 6);
15087:   Const('EWrongType','LongInt'( 7);
15088:   Const('EWrongLength','LongInt'( 8);
15089:   Const('EWrongEncoding','LongInt'( 9);
15090:   Const('EWrongValue','LongInt'( 10);
15091:   Const('ENoCreation','LongInt'( 11);
15092:   Const('EInconsistentValue','LongInt'( 12);
15093:   Const('EResourceUnavailable','LongInt'( 13);
15094:   Const('ECommitFailed','LongInt'( 14);
15095:   Const('EUndoFailed','LongInt'( 15);

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15096: Const('EAuthorizationError','LongInt'( 16);
15097: Const('ENotWritable','LongInt'( 17);
15098: Const('EInconsistentName','LongInt'( 18);
15099: AddTypeS('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15100: AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15101: AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15102: SIRegister_TSNSMPMib(CL);
15103: AddTypeS('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer;
15104:           +'EngineTime : integer; EngineStamp : Cardinal; end');
15105: SIRegister_TSNSMPRec(CL);
15106: SIRegister_TSNSMPSend(CL);
15107: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString) : Boolean';
15108: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer) : Boolean';
15109: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15110: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings): Boolean;
15111: Function SNMPGetTableElement(const BaseOID,RowID,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15112: Function SendTrap(const Dest,Source, Enterprise, Community : AnsiString; Generic, Specific, Seconds : Integer;
15113:           const MIBName, MIBValue : AnsiString; MIBType : Integer);
15114: end;
15115:
15116: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15117: begin
15118:   Function GetDomainName2: AnsiString');
15119:   Function GetDomainController( Domain : AnsiString) : AnsiString');
15120:   Function GetDomainUsers( Controller : AnsiString) : AnsiString');
15121:   Function GetDomainGroups( Controller : AnsiString) : AnsiString');
15122:   Function GetDateTime( Controller : AnsiString) : TDateTime');
15123:   Function GetFullName2( Controller, UserID : AnsiString) : AnsiString');
15124: end;
15125:
15126: procedure SIRegister_wwSystem(CL: TPSPascalCompiler);
15127: begin
15128:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15129:   TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM);
15130:   Function wwStrToDate( const S : string) : boolean');
15131:   Function wwStrToTime( const S : string) : boolean');
15132:   Function wwStrToDateTime( const S : string) : boolean');
15133:   Function wwStrToDateVal( const S : string) : TDateTime');
15134:   Function wwStrToDateVal( const S : string) : TDateTime');
15135:   Function wwStrToDateTimeVal( const S : string) : TDateTime');
15136:   Function wwStrToInt( const S : string) : boolean');
15137:   Function wwStrToFloat( const S : string) : boolean');
15138:   Function wwGetDateOrder( const DateFormat : string) : TwwDateOrder');
15139:   Function wwNextDay( Year, Month, Day : Word) : integer');
15140:   Function wwPriorDay( Year, Month, Day : Word) : integer');
15141:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime) : Boolean');
15142:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime) : Boolean');
15143:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15144:   Function wwGetTimeCursorPosition( SelStart: integer; Text : string) : TwwDateTimeSelection');
15145:   Function wwScanDate( const S : string; var Date : TDateTime) : Boolean');
15146:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer) : Boolean');
15147:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool);
15148:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean');
15149: end;
15150:
15151: unit uPSI_Themes;
15152: Function ThemeServices : TThemeServices');
15153: Function ThemeControl( AControl : TControl) : Boolean');
15154: Function UnthemedDesigner( AControl : TControl) : Boolean');
15155: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15156: begin
15157:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String');
15158: end;
15159: Unit uPSC_menus;
15160: Function StripHotkey( const Text : string) : string');
15161: Function GetHotkey( const Text : string) : string');
15162: Function AnsiSameCaption( const Text1, Text2 : string) : Boolean');
15163: Function IsAltGRPressed : boolean');
15164:
15165: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15166: begin
15167:   TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15168:   SIRegister_TIdIMAP4Server(CL);
15169: end;
15170:
15171: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15172: begin
15173:   'HASH_SIZE','LongInt'( 256);
15174:   CL.AddClass('TOBJECT','EVariantSymbolTable');
15175:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15176:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15177:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15178:             +' : Integer; Value : Variant; end');
15179:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15180:   SIRegister_TVariantSymbolTable(CL);
15181: end;
15182:

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15183: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15184: begin
15185:   SIRegister_TThreadLocalVariables(CL);
15186:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar');
15187: //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD');
15188:   Function ThreadLocals : TThreadLocalVariables');
15189:   Procedure WriteDebug( sz : String );
15190:   CL.AddConstantN('UDF_SUCCESS','LongInt'( 0 );
15191:   'UDF_FAILURE','LongInt'( 1 );
15192:   'cSignificantlyLarger','LongInt'( 1024 * 4 );
15193:   CL.AddTypeS('mTByteArray', 'array of byte;');
15194:   function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15195:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15196:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTTarget: string);
15197:   function IsNetworkConnected: Boolean;
15198:   function IsInternetConnected: Boolean;
15199:   function IsCOMConnected: Boolean;
15200:   function IsNetworkOn: Boolean;
15201:   function IsInternetOn: Boolean;
15202:   function IsCOMON: Boolean;
15203:   Function SetTimer(hWnd : HWND; nIDEEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15204:   TmrProc', 'procedure TmrProc(hWnd: HWND; uMsg: Integer; idEvent: Integer; dwTime: Integer);');
15205:   Function SetTimer2( hWnd : HWND; nIDEEvent, uElapse : UINT; lpTimerFunc : TmrProc ) : UINT');
15206:   Function KillTimer( hWnd : HWND; uIDEEvent : UINT ) : BOOL';
15207:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15208:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15209:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15210:   Function GetMenu( hWnd : HWND ) : HMENU';
15211:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15212: end;
15213;
15214: procedure SIRegister_SockTransport(CL: TPSPascalCompiler);
15215: begin
15216:   SIRegister_IDataBlock(CL);
15217:   SIRegister_ISendDataBlock(CL);
15218:   SIRegister_ITransport(CL);
15219:   SIRegister_TDataBlock(CL);
15220:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15221:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15222:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15223:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15224:   SIRegister_TCustomDataBlockInterpreter(CL);
15225:   SIRegister_TSendDataBlock(CL);
15226:   'CallSig','LongWord')( $D800);
15227:   'Resultsig','LongWord')( $D400);
15228:   'asMask','LongWord')( $00FF);
15229:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15230:   CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15231:   Procedure CheckSignature( Sig : Integer );
15232: end;
15233;
15234: procedure SIRegister_WinInet(CL: TPSPascalCompiler);
15235: begin
15236:   //CL.AddTypeS('HINTERNET', '__Pointer');
15237:   CL.AddTypeS('HINTERNET1', 'THANDLE');
15238:   CL.AddTypeS('HINTERNET', 'Integer');
15239:   CL.AddTypeS('HINTERNET2', '__Pointer');
15240:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15241:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15242:   CL.AddTypeS('INTERNET_PORT', 'Word');
15243:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15244:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15245:   Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD) : BOOL;
15246:   'INTERNET_RFC1123_FORMAT','LongInt'( 0 );
15247:   'INTERNET_RFC1123_BUFSIZE','LongInt'( 30 );
15248:   Function InternetCrackUrl(lpszUrl:PChar;dwUrlLength,dwFlags:DWORD;var
lpUrlComponents:TURLComponents):BOOL;
15249:   Function InternetCreateUrl(var lpUrlComponts:TURLCompons;dwFlags:DWORD;lpszUrl:PChar;var
dwUrlLength:DWORD):BOOL;
15250:   Function InternetCloseHandle(hInet : HINTERNET) : BOOL';
15251:   Function
InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15252:   Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
;dwContext:DWORD):HINTERNET;
15253:   Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy,
lpszProxBypass:PChar;dwFlags:DWORD):HINTERNET;
15254:   Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
dwContext:DWORD):BOOL;
15255:   Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15256:   Function
InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15257:   Function InternetHangUp( dwConnection : DWORD; dwReserved : DWORD ) : DWORD';
15258:   Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15259:   Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15260:   Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15261:   Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15262:   Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;

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15264: Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
15265:   lpdwBufferLength : Function InternetCloseHandle( hInet : HINTERNET ) : BOOL );
15266: Function InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar
15267: ;lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD; dwContext:DWORD):HINTERNET;
15268: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,
15269: dwContext:DWORD):BOOL;
15270: Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData :
15271: TWin32FindData; dwFlags : DWORD; dwContext : DWORD ) : HINTERNET );
15272: Function WFtpGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
15273: BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD ) : BOOL );
15274: Function WFtpPutFile(hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15275: Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar ) : BOOL );
15276: Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15277: Function FtpOpenFile(hConnect:HINTER; lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15278: Function FtpCreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL );
15279: Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL );
15280: Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar) : BOOL );
15281: Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15282: Function FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpszCommd:PChar;dwContxt:DWORD):BOOL;
15283: Function IS_GOPHER_FILE( GopherType : DWORD ) : BOOL );
15284: Function IS_GOPHER_DIRECTORY( GopherType : DWORD ) : BOOL );
15285: Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD ) : BOOL );
15286: Function IS_GOPHER_ERROR( GopherType : DWORD ) : BOOL );
15287: Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD ) : BOOL );
15288: Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD ) : BOOL );
15289: Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD ) : BOOL );
15290: Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD ) : BOOL );
15291: Function IS_GOPHER_ASK( GopherType : DWORD ) : BOOL );
15292: Function IS_GOPHER_PLUS( GopherType : DWORD ) : BOOL );
15293: Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD ) : BOOL );
15294: Function GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:
15295: PChar; dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15296: Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL);
15297: Function GopherOpenFile(hConet:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):HINTERNET;
15298: Function HttpOpenRequest( hConnect:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
15299: PChar; lpszReferer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):HINTERNET;
15300: Function HttpAddRequestHeaders( hReq:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15301: Function HttpSendRequest( hRequest: HINTERNET; lpszHeaders : PChar;
15302: dwHeadersLength:DWORD;lpOptional:Tobject; dwOptionalLength:DWORD):BOOL;
15303: Function InternetGetCookie(lpszUrl, lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15304: Function InternetAttemptConnect( dwReserved : DWORD ) : DWORD );
15305: Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD ) : BOOL );
15306: Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15307: Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPSTR; bPost : BOOL ) : DWORD );
15308: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject ) : Int64 );
15309: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject ) : Bool );
15310: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var
15311: lpdwFirstCacheEntryInfo:TInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15312: Function FindNextUrlCacheEntry(hEnumHandle : THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var
15313: lpdwNextCacheEntryInfoBufferSize : DWORD ) : BOOL;
15314: Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15315: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15316: Function InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15317: Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD ) : BOOL );
15318: end;
15319: procedure SIRegister_Wwstr(CL: TPSPascalCompiler);
15320: begin
15321:   AddTypeS('str CharSet', 'set of char');
15322:   AddTypeS('TwgWordOption', '(wwgSkipLeadingBlanks, wwgQuotesAsWords, wgwStripQuotes, wgwSpacesInWords)');
15323:   AddTypeS('TwgWordOptions', 'set of TwgWordOption');
15324:   Procedure strBreakApart( s : string; delimiter : string; parts : TStrings );
15325:   Function strGetToken( s : string; delimiter : string; var APos: integer ) : string );
15326:   Procedure strStripPreceding( var s : string; delimiter : strCharSet );
15327:   Procedure strStripTrailing( var s : string; delimiter : strCharSet );
15328:   Procedure strStripWhiteSpace( var s : string );
15329:   Function strRemoveChar( str : string; removeChar : char ) : string );
15330:   Function wwstrReplaceChar( str : string; removeChar, replaceChar : char ) : string );
15331:   Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string ) : string );
15332:   Function wwEqualStr( s1, s2 : string ) : boolean );
15333:   Function strCount( s : string; delimiter : char ) : integer );
15334:   Function strWhiteSpace : strCharSet );
15335:   Function wwExtractFileNameOnly( const FileName : string ) : string );
15336:   Function wwGetWord(s:string; var APos:integer; Options:TwwGetWordOptions; DelimSet:strCharSet):string;
15337:   Function strTrailing( s : string; delimiter : char ) : string );
15338:   Function strPreceding( s : string; delimiter : char ) : string );
15339:   Function wwstrReplace( s, Find, Replace : string ) : string );
15340: end;
15341: procedure SIRegister_DataBkr(CL: TPSPascalCompiler);
15342: begin
15343:   SIRegister_TRemoteDataModule(CL);

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15337:   SIRegister_TCRemoteDataModule(CL);
15338:   Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean );
15339:   Procedure UnregisterPooled( const ClassID : string );
15340:   Procedure EnableSocketTransport( const ClassID : string );
15341:   Procedure DisableSocketTransport( const ClassID : string );
15342:   Procedure EnableWebTransport( const ClassID : string );
15343:   Procedure DisableWebTransport( const ClassID : string );
15344: end;
15345;
15346: procedure SIRegister_Mathbox(CL: TPSPPascalCompiler);
15347: begin
15348:   Function mxArcCos( x : Real ) : Real';
15349:   Function mxArcSin( x : Real ) : Real';
15350:   Function Comp2Str( N : Comp ) : String';
15351:   Function Int2StrPad0( N : LongInt; Len : Integer ) : String';
15352:   Function Int2Str( N : LongInt ) : String';
15353:   Function mxIsEqual( R1, R2 : Double ) : Boolean';
15354:   Function LogXY( x, y : Real ) : Real';
15355:   Function Pennies2Dollars( C : Comp ) : String';
15356:   Function mxPower( X : Integer; Y : Integer ) : Real';
15357:   Function Real2Str( N : Real; Width, Places : integer ) : String';
15358:   Function mxStr2Comp( MyString : string ) : Comp';
15359:   Function mxStr2Pennies( S : String ) : Comp';
15360:   Function Str2Real( MyString : string ) : Real';
15361:   Function XToThey( x, y : Real ) : Real';
15362: end;
15363;
15364: //*****Cindy Functions!*****
15365: procedure SIRegister_cyIndy(CL: TPSPPascalCompiler);
15366: begin
15367:   CL.AddTypeS('TContentTypeMessage', '( cmPlainText, cmPlainText_Attach, cmHtml'
15368:     +'__Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach, '
15369:     +'cmAlterText_Html_RelatedAttach, cmAlterText_Html_Attach_RelatedAttach, cmReadNotification )');
15370:   MessagePlainText,'String 'text/plain');
15371:   CL.AddConstantN('MessagePlainText_Attach','String 'multipart/mixed');
15372:   MessageAlterText_Html,'String 'multipart/alternative');
15373:   MessageHtml_Attach,'String 'multipart/mixed');
15374:   MessageHtml_RelatedAttach,'String 'multipart/related; type="text/html"');
15375:   MessageAlterText_Html_Attach,'String 'multipart/mixed');
15376:   MessageAlterText_Html_RelatedAttach,'String 'multipart/related; type="multipart/alternative"');
15377:   MessageAlterText_Html_Attach_RelatedAttach,'String 'multipart/mixed');
15378:   MessageReadNotification,'String '(.('multipart/report; report-type="disposition-notification"');
15379:   Function ForceDecodeHeader( aHeader : String ) : String');
15380:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding ) : string');
15381:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding ) : String');
15382:   Function Base64_DecodeToBytes( Value : String ) : TBytes;');
15383:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15384:   Function Get_MD5( const aFileName : string ) : string');
15385:   Function Get_MD5FromString( const aString : string ) : string');
15386: end;
15387;
15388: procedure SIRegister_cySysUtils(CL: TPSPPascalCompiler);
15389: begin
15390:   Function IsFolder( SRec : TSearchrec ) : Boolean';
15391:   Function isFolderReadOnly( Directory : String ) : Boolean';
15392:   Function DirectoryIsEmpty( Directory : String ) : Boolean';
15393:   Function DirectoryWithSubDir( Directory : String ) : Boolean';
15394:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings );
15395:   Function DiskFreeBytes( Drv : Char ) : Int64';
15396:   Function DiskBytes( Drv : Char ) : Int64';
15397:   Function GetFileBytes( Filename : String ) : Int64';
15398:   Function GetfilesBytes( Directory, Filter : String ) : Int64';
15399:   SE_CREATE_TOKEN_NAME,'String 'SeCreateTokenPrivilege');
15400:   SE_ASSIGNPRIMARYTOKEN_NAME,'String 'SeAssignPrimaryTokenPrivilege');
15401:   SE_LOCK_MEMORY_NAME,'String 'SeLockMemoryPrivilege');
15402:   SE_INCREASE_QUOTA_NAME,'String 'SeIncreaseQuotaPrivilege');
15403:   SE_UNSOLICITED_INPUT_NAME,'String 'SeUnsolicitedInputPrivilege');
15404:   SE_MACHINE_ACCOUNT_NAME,'String 'SeMachineAccountPrivilege');
15405:   SE_TCB_NAME,'String 'SeTcbPrivilege');
15406:   SE_SECURITY_NAME,'String 'SeSecurityPrivilege');
15407:   SE_TAKE_OWNERSHIP_NAME,'String 'SeTakeOwnershipPrivilege');
15408:   SE_LOAD_DRIVER_NAME,'String 'SeLoadDriverPrivilege');
15409:   SE_SYSTEM_PROFILE_NAME,'String 'SeSystemProfilePrivilege');
15410:   SE_SYSTEMTIME_NAME,'String 'SeSystemtimePrivilege');
15411:   SE_PROF_SINGLE_PROCESS_NAME,'String 'SeProfileSingleProcessPrivilege');
15412:   SE_INC_BASE_PRIORITY_NAME,'String 'SeIncreaseBasePriorityPrivilege');
15413:   SE_CREATE_PAGEFILE_NAME,'String 'SeCreatePagefilePrivilege');
15414:   SE_CREATE_PERMANENT_NAME,'String 'SeCreatePermanentPrivilege');
15415:   SE_BACKUP_NAME,'String 'SeBackupPrivilege');
15416:   SE_RESTORE_NAME,'String 'SeRestorePrivilege');
15417:   SE_SHUTDOWN_NAME,'String 'SeShutdownPrivilege');
15418:   SE_DEBUG_NAME,'String 'SeDebugPrivilege');
15419:   SE_AUDIT_NAME,'String 'SeAuditPrivilege');
15420:   SE_SYSTEM_ENVIRONMENT_NAME,'String 'SeSystemEnvironmentPrivilege');
15421:   SE_CHANGE_NOTIFY_NAME,'String 'SeChangeNotifyPrivilege');
15422:   SE_REMOTE_SHUTDOWN_NAME,'String 'SeRemoteShutdownPrivilege');
15423:   SE_UNDOCK_NAME,'String 'SeUndockPrivilege');
15424:   SE_SYNC_AGENT_NAME,'String 'SeSyncAgentPrivilege');
15425:   SE_ENABLE_DELEGATION_NAME,'String 'SeEnableDelegationPrivilege');

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15426: SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege');
15427: end;
15428:
15429:
15430: procedure SIRegister_cyWinUtils(CL: TPSPascalCompiler);
15431: begin
15432:   Type(TWindowsVersion', '( wvUnknown, wvWin31, wvWin95, wvWin98, wvWin'
15433:     + 'Me, wvWinNT3, wvWinNT4, wvWin2000, wvWinXP, wvWinVista, wvWin7, wvWin8, wvWin8_Our_Upper )');
15434:   Function ShellGetExtensionName( FileName : String) : String';
15435:   Function ShellGetIconIndex( FileName : String) : Integer';
15436:   Function ShellGetIconHandle( FileName : String) : HIcon';
15437:   Procedure ShellThreadCopy( App_Handle : THandle; fromfile : string; toFile : string)');
15438:   Procedure ShellThreadMove( App_Handle : THandle; fromfile : string; toFile : string)');
15439:   Procedure ShellRenameDir( DirFrom, DirTo : string)');
15440:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15441:   Procedure cyShellExecuteL(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15442:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String)');
15443:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string)');
15444:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
WaitCloseCompletion : boolean) : Boolean)';
15445:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer)');
15446:   Function RemoveDuplicatedPathDelimiter( Str : String) : String';
15447:   Function cyFileTimeToDate( _FT : TFileTime) : TDateTime';
15448:   Function GetModificationDate( Filename : String) : TDateTime';
15449:   Function GetCreationDate( Filename : String) : TDateTime';
15450:   Function GetLastAccessDate( Filename : String) : TDateTime';
15451:   Function FileDelete( Filename : String) : Boolean';
15452:   Function FileIsOpen( Filename : string) : boolean';
15453:   Procedure FileDelete( FromDirectory : String; Filter : ShortString)');
15454:   Function DirectoryDelete( Directory : String) : Boolean';
15455:   Function GetPrinters( PrintersList : TStrings) : Integer';
15456:   Procedure SetDefaultPrinter( PrinterName : String)';
15457:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer)';
15458:   Function WinToDosPath( WinPathName : String) : String';
15459:   Function DosToWinPath( DosPathName : String) : String';
15460:   Function cyGetWindowsVersion : TWindowsVersion)';
15461:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean) : Boolean';
15462:   Procedure WindowsShutDown( Restart : boolean)';
15463:   Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
FileIcon:string;NumIcone:integer);
15464:   Procedure GetWindowsFonts( FontsList : TStrings)');
15465:   Function GetAvailableFilename( DesiredFileName : String) : String';
15466: end;
15467:
15468: procedure SIRegister_cyStrUtils(CL: TPSPascalCompiler);
15469: begin
15470:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15471:   Type(TStrLocateOptions', 'set of TStringLocateOption');
15472:   Type(TStringRead', '( srFromLeft, srFromRight )');
15473:   Type(TStringReads', 'set of TStringRead');
15474:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15475:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15476:   Type(TWordsOptions', 'set of TWordsOption');
15477:   Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15478:   Type(TCarTypes', 'set of TCarType');
15479:   //CL.AddTypes('TUnicodeCategories', 'set of TUnicodeCategory');
15480:   CarTypeAlphabetic', 'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15481:   Function Char_GetType( aChar : Char) : TCarType';
15482:   Function SubString_Count( Str : String; Separator : Char) : Integer';
15483:   Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word) : Integer';
15484:   Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word) : String';
15485:   Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word) : Integer';
15486:   Procedure SubString_Add( var Str : String; Separator : Char; Value : String)';
15487:   Procedure SubString_Insert(var Str:String;Separator:Char;SubStringIndex:Word;Value : String)';
15488:   Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word;NewValue : String)';
15489:   Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word) : Boolean';
15490:   Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15491:   Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer):String';
15492:   Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';
15493:   Function String_Quote( Str : String) : String';
15494:   Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char) : Char';
15495:   Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15496:   Function String_GetWord( Str : String; StringRead : TStringRead) : String';
15497:   Function String_GetInteger( Str : String; StringRead : TStringRead) : String';
15498:   Function StringToInt( Str : String) : Integer';
15499:   Function String_Uppercase( Str : String; Options : TWordsOptions) : String';
15500:   Function String_Lowercase( Str : String; Options : TWordsOptions) : String';
15501:   Function String_Reverse( Str : String) : String';
15502:   Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15503:   Function String_Pos1(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive :
TCaseSensitive):Integer';
15504:   Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer) : String';
15505:   Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String;_Inclusive:Boolean):String;
15506:   Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
Between2MustExist : Boolean; CaseSensitive : TCaseSensitive) : String';
15507:   Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer) : String';
15508:   Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive) : String';
15509:   Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads) : String';
15510:   Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer) : String';

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15511: Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15512: Function String_End( Str : String; Cars : Word ) : String');
15513: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
AlwaysFindFromBeginning : Boolean) : String');
15514: Function String_SubstCar( Str : String; Old, New : Char ) : String');
15515: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive) : Integer');
15516: Function String_SameCars(Str1,Str2:String;StopCount_IfDiferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15517: Function String_IsNumbers( Str : String) : Boolean');
15518: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer) : Integer');
15519: Function StringToCsvCell( aStr : String) : String');
15520: end;
15521:
15522: procedure SIRegister_cyDateUtils(CL: TPSPascalCompiler);
15523: begin
15524:   Function LongDayName( aDate : TDate ) : String');
15525:   Function LongMonthName( aDate : Tdate ) : String');
15526:   Function ShortYearOf( aDate : TDate ) : byte)';
15527:   Function DateToStrYYYYMMDD( aDate : TDate ) : String');
15528:   Function StrYYYYMMDDToDate( aStr : String ) : TDate');
15529:   Function SecondsToMinutes( Seconds : Integer ) : Double)';
15530:   Function MinutesToSeconds( Minutes : Double ) : Integer)';
15531:   Function MinutesToHours( Minutes : Integer ) : Double)';
15532:   Function HoursToMinutes( Hours : Double ) : Integer)';
15533:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime');
15534:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer)');
15535:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime');
15536:   Function GetMinutesBetween( DateTimel, DateTimel2 : TDateTime ) : Int64)';
15537:   Function GetMinutesBetween1(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15538:   Function GetSecondsBetween( DateTimel, DateTimel2 : TDateTime ) : Int64)';
15539:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
RsltBegin:TDateTime; RsltEnd : TDateTime) : Boolean)';
15540:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15541:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean)';
15542: end;
15543:
15544: procedure SIRegister_cyObjUtils(CL: TPSPascalCompiler);
15545: begin
15546:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15547:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15548:   Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15549:   Type(TcyLocateOptions', 'set of TcyLocateOption');
15550:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer)';
15551:   Function StringsLocatel( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer)';
15552:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer)';
15553:   Procedure StringsReplace(aList:TStrings;OldStr:String; NewStr:String;ValueKind : TStringsValueKind)');
15554:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType)');
15555:   Function TreeNodeLocate( ParentNode : TTreenode; Value : String ) : TTreenode');
15556:   Function TreeNodeLocateOnLevel( TreeView : TTreenode; OnLevel : Integer; Value : String ) : TTreenode');
15557:   Function
TreeNodeGetChildFromIndex(TreeView:TTreenode;ParentNode:TTreenode;ChildIndex:Integer):TTreenode';
15558:   Function TreeNodeGetParentOnLevel( ChildNode : TTreenode; ParentLevel : Integer ) : TTreenode');
15559:   Procedure TreeNodeCopy(FromNode:TTreenode;ToNode:TTreenode;const CopyChildren:Boolean;const
CopySubChildren:Bool;
15560:   Procedure RichEditSetStr( aRichEdit : TRichEdit; FormattedString : String)');
15561:   Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15562:   Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl');
15563:   Procedure cyCenterControl( aControl : TControl ) );
15564:   Function GetLastParent( aControl : TControl ) : TWinControl');
15565:   Function GetControlBitmap( aControl : TWinControl ) : TBitmap');
15566:   Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap');
15567: end;
15568:
15569: procedure SIRegister_cyBDE(CL: TPSPascalCompiler);
15570: begin
15571:   Function TablePackTable( Tab : TTable ) : Boolean';
15572:   Function TableRegenIndexes( Tab : TTable ) : Boolean';
15573:   Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean');
15574:   Function TableUndeleteRecord( Tab : TTable ) : Boolean');
15575:   Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15576:   Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean');
15577:   Function TableEmptyTable( Tab : TTable ) : Boolean';
15578:   Function TableFindKey( aTable : TTable; Value : String ) : Boolean');
15579:   Procedure TableFindNearest( aTable : TTable; Value : String') );
15580:   Function
TableCreate(Owner:TComponent;DBaseName:ShortString;TblName:String;IdxName:ShortString;ReadOnly:Bool):TTable;
15581:   Function
TableOpen(Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool):Bool;
15582:   Function DateToBDESQDate( aDate : TDate; const DateFormat : String ) : String');
15583: end;
15584:
15585: procedure SIRegister_cyClasses(CL: TPSPascalCompiler);
15586: begin
15587:   SIRegister_TcyRunTimeDesign(CL);
15588:   SIRegister_TcyShadowText(CL);
15589:   SIRegister_TcyBgiPicture(CL);
15590:   SIRegister_TcyGradient(CL);
15591:   SIRegister_tcyBevel(CL);
15592:   //CL.AddTypeS('TcyBevelClass', 'class of tcyBevel');
15593:   SIRegister_tcyBevels(CL);

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15594:  SIRegister_TcyImagelistOptions(CL);
15595:  Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture') );
15596: end;
15597:
15598: procedure SIRegister_cyGraphics(CL: TPPascalCompiler);
15599: begin
15600:  Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
adgradOrientation: TdgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
Maxdegrade : Byte;'+
15601:   SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap)');
15602:  Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad : byte);
15603:  Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad:byte);
15604:  Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
Byte; toRect : TRect; OrientationShape : TDgradOrientationShape )');
15605:  Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
Byte; AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap)');
15606:  Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer)' );
15607:  Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer)' );
15608:  Procedure cyFrame1( Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
BottomColor : TColor; const Width : Integer; const RoundRect: boolean)' );
15609:  Procedure cyFrame3D(Canvas:TCanvas;var Rect:TRect;TopLeftColor,
BottomRightColor:TColor;Width:Integer;const DrawLeft:Boolean;const DrawTop:Bool;const DrawRight:Bool;const
DrawBottom:Bool;const RoundRect:bool);
15610:  Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
aState : TButtonState; Focused, Hot : Boolean)' );
15611:  Procedure cyDrawButton(Canvas:TCanvas; Caption:String;ARect:TRect; GradientColor1,GradientColor2:TColor;
aState : TButtonState; Focused, Hot : Boolean)' );
15612:  Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
aState : TButtonState; Focused, Hot : Boolean)' );
15613:  Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean)' );
15614:  Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor)' );
15615:  Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer)' );
15616:  Function DrawTextFormatFlags(aTextFormat:LongInt;Alignment
TALignment;Layout:TTextLayout;WordWrap:Bool):LongInt;
15617:  Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
WordWrap : Boolean; CaptionRender : TCaptionRender ) : LongInt' );
15618:  Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt)' );
15619:  Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont' );
15620:  Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont' );
15621:  Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
CaptionOrientation : TCaptionOrientation; Alignment : TALignment; Layout : TTextLayout)' );
15622:  Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone : Integer;
const OnlyCalcFoldLine : Boolean ) : TLineCoord' );
15623:  Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone : Integer;
const OnlyCalcFoldLine : Boolean ) : TLineCoord' );
15624:  Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint):boolean';
15625:  Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean';
15626:  Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean');
15627:  Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean');
15628:  Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect)' );
15629:  Procedure DrawCanvas1(Destination:TCanvas;
DestRect:TRect;Src:TCanvas;SrcRect:TRect;TransparentColor:TColor; const aStyle:TBgStyle; const
aPosition:TBgPosition; const IndentX : Integer; const IndentY : Integer;const IntervalX : Integer; const
IntervalY : Integer; const RepeatX:Integer;const RepeatY:Integer);
15630:  Procedure DrawGraphic( Destination : TCanvas; DestRect : TRect; aGraphic : TGraphic; SrcRect : TRect;
TransparentColor:TColor; const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer;
const IndentY:Integer;const IntervalX:Integer;const IntervalY:Integer;const RepeatX:Integer;const
RepeatY:Integer );
15631:  Procedure DrawGraphic1(Destination:TCanvas; DestRect:TRect;aGraphic : TGraphic; Transparent : Boolean;
const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer; const IndentY : Integer;
const IntervalX:Integer; const IntervalY : Integer; const RepeatX:Integer; const RepeatY:Integer)' );
15632:  Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap)' );
15633:  Function ValidGraphic( aGraphic : TGraphic ) : Boolean';
15634:  Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor' );
15635:  Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor' );
15636:  Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor' );
15637:  Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor' );
15638:  Function MediumColor( Color1, Color2 : TColor ) : TColor' );
15639:  Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect' );
15640:  Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect' );
15641:  Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect' );
15642:  Procedure InflateRectPercent( var aRect : TRect; withPercent : Double)' );
15643:  Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect' );
15644:  Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect' );
15645:  Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean');
15646:  Function PointInEllispe( const aPt : TPoint; const aRect : TRect ) : boolean');
15647:  Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer' );
15648: end;
15649:
15650: procedure SIRegister_cyTypes(CL: TPPascalCompiler);
15651: begin
15652:  Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight )');
15653:  Type(TGlyphLayout', '( glTop, glCenter, glBottom )');
15654:  Type(TDdisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome )');
15655:  Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis )');
15656:  Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed )');

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15657: Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
15658:   +' bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft)');
15659: Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional )');
15660: Type(TcBevelCut', '( bcLowered, bcRaised, bcNone, bcTransparent, bcGradientToNext )');
15661: Type(TDgradOrientation', '( dgdVertical, dgdHorizontal, dgdAngle, dgdRadial, dgdRectangle )');
15662: Type(TDgradOrientationShape', '( osRadial, osRectangle )');
15663: Type(TDgradBalanceMode(bmNormal,bmMirror,bmReverse,bmReverseFromColor,bmInvertReverse,
15664:   bmInvertReverseFromColor);
15664: Type(TRunTimeDesignJob', '( rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
15665:   rjResizeTopLeft, rjResizeBottomLeft, rjResizeRight, rjResizeTopRight, rjResizeBottomRight )');
15665: Type(TLineCoord', 'record BottomCoord : TPoint; TopCoord : TPoint; end');
15666: cCaptionOrientationWarning', 'String')('Note that text orientation doesn''t work with all fonts!');
15667: end;
15668:
15669: procedure SIRegister_WinSvc(CL: TPSPascalCompiler);
15670: begin
15671:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive');
15672:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive';
15673:   Const SERVICES_ACTIVE_DATABASE', 'String')' SERVICES_ACTIVE_DATABASEA');
15674:   Const SERVICES_FAILED_DATABASEA', 'String' 'ServicesFailed');
15675:   Const SERVICES_FAILED_DATABASEW', 'String' 'ServicesFailed');
15676:   Const SERVICES_FAILED_DATABASE', 'String' 'SERVICES_FAILED_DATABASEA');
15677:   Const SC_GROUP_IDENTIFIERA', 'String'). '+');
15678:   Const SC_GROUP_IDENTIFIERW', 'String') '+');
15679:   Const SC_GROUP_IDENTIFIER', 'string 'SC_GROUP_IDENTIFIERA');
15680:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFF');
15681:   Const SERVICE_ACTIVE', 'LongWord')($00000001);
15682:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15683:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15684:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15685:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15686:   Const SERVICE_CONTROL_INTERROGATE', 'LongWord $00000004);
15687:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15688:   Const SERVICE_STOPPED', 'LongWord $00000001);
15689:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15690:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15691:   Const SERVICE_RUNNING', 'LongWord $00000004);
15692:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15693:   Const SERVICE_PAUSE_PENDING', 'LongWord $00000006);
15694:   Const SERVICE_PAUSED', 'LongWord $00000007);
15695:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15696:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15697:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15698:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15699:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15700:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15701:   Const SC_MANAGER_LOCK', 'LongWord $0008);
15702:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15703:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);
15704:   Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15705:   Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15706:   Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15707:   Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15708:   Const SERVICE_START', 'LongWord $0010);
15709:   Const SERVICE_STOP', 'LongWord $0020);
15710:   Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15711:   Const SERVICE_INTERROGATE', 'LongWord $0080);
15712:   Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15713:   Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15714:   Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15715:   Const SERVICE_ADAPTER', 'LongWord $00000004);
15716:   Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15717:   Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15718:   Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15719:   Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15720:   Const SERVICE_BOOT_START', 'LongWord $00000000);
15721:   Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15722:   Const SERVICE_AUTO_START', 'LongWord $00000002);
15723:   Const SERVICE_DEMAND_START', 'LongWord $00000003);
15724:   Const SERVICE_DISABLED', 'LongWord $00000004);
15725:   Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15726:   Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15727:   Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15728:   Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15729:   CL.AddTypeS('SC_HANDLE', 'THandle');
15730: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15731:   CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15732:   Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState :
15733:     +: DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe
15734:     +'cificExitCode : DWORD; dwCheckPoint : DWORD; dwWaitHint : DWORD; end');
15735:   Const SERVICE_STATUS', '_SERVICE_STATUS');
15736:   Const TServiceStatus', '_SERVICE_STATUS');
15737:   CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis
15738:     +playName : PChar; ServiceStatus : TServiceStatus; end');
15739:   ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15740:   _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15741:   TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15742:   TEnumServiceStatus', 'TEnumServiceStatusA');
15743:   SC_LOCK', '__Pointer');

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15744: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOwner: PChar; dwLockDuration:DWORD;end';
15745: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15746: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15747: QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15748: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15749: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15750: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15751: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15752: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15753: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15754: +'iceStartName : PChar; lpDisplayName : PChar; end');
15755: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15756: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15757: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15758: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15759: TQueryServiceConfig', 'TQueryServiceConfigA');
15760: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL');
15761: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15762: Function CreateService( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15763: +' lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar) : SC_HANDLE );
15764: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar; '
15765: +' lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar) : SC_HANDLE');
15766: Function DeleteService( hService : SC_HANDLE ) : BOOL');
15767: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD) : BOOL');
15768: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD):BOOL');
15769: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpcchBuffer:DWORD):BOOL';
15770: Function GetServiceDisplayName(hSCManager:SC_HANDLE;lpServiceName,lpDisplayName:PChar;var
lpcchBuffer:DWORD):BOOL;
15771: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK );
15772: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL );
15773: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE );
15774: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE );
15775: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL );
15776: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15777: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15778: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15779: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL );
15780: end;
15781:
15782: procedure SIRegister_JvPickDate(CL: TPSPascalCompiler);
15783: begin
15784: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek; AWeekendColor:TColor;
BtnHints:TStrings;MinDate:TDateTime;MaxDate : TDateTime):Boolean;
15785: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
DlgCaption:TCaption;AStartOfWeek:TDayOfWeekName;AWeekend:TDaysOfWeek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDateTime;
15786: Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15787: Function CreatePopupCalendar(AOwner:TComponent;ABiDiMode:TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):
TWinControl;
15788: Procedure SetupPopupCalendar(PopupCalendar:TWinControl;AStartOfWeek:TDayOfWeekName;AWeekends:TDaysOfWeek;
AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:TDateTime);
15789: Function CreateNotifyThread(const
FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15790: end;
15791:
15792: procedure SIRegister_JclNTFS2(CL: TPSPascalCompiler);
15793: begin
15794: CL.AddClassN(CL.FindClass('TOBJECT'),'EJclNtfsError');
15795: CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15796: Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean');
15797: Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState');
15798: Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean');
15799: Procedure NtfsSetFileCompression2(const FileName : TFileName; const State : TFileCompressionState)');
15800: Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)');
15801: Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)');
15802: Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)');
15803: Function NtfsSetSparse2( const FileName : string ) : Boolean';
15804: Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean';
15805: Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean';
15806: Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean';
15807: Function NtfsGetSparse2( const FileName : string ) : Boolean';
15808: Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean';
15809: Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean';
15810: Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean';
15811: Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean';
15812: Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean';
15813: Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean';
15814: Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean';
15815: Function NtfsMountVolume2( const Volume : WideString; const MountPoint : WideString ) : Boolean';
15816: CL.AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )');
15817: Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15818: Function NtfsOpLockBreakAckNo22( Handle : THandle; Overlapped : TOverlapped ) : Boolean');

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15819: Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15820: Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15821: Function NtfsRequestOpLock2( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ) : Boolean';
15822: Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean';
15823: Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean';
15824: Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string ) : Boolean;
15825: CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15826:   +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )');
15827: CL.AddTypeS('TStreamIds', 'set of TStreamId')';
15828: TInternalFindStreamData', 'record FileHandle: THandle; Context: TObject; StreamIds:TStreamIds; end');
15829: CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15830:   +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15831: Function NtfsFindFirstStream2( const FileName:string; StreamIds:TStreamIds; var Data:TFindStreamData ) : Bool;
15832: Function NtfsFindNextStream2( var Data : TFindStreamData ) : Boolean';
15833: Function NtfsFindStreamClose2( var Data : TFindStreamData ) : Boolean';
15834: Function NtfsCreateHardLink2( const LinkFileName, ExistingFileName : String ) : Boolean';
15835: Function NtfsCreateHardLinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean';
15836: Function NtfsCreateHardLinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean';
15837: CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15838: Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean';
15839: Function NtfsFindHardLinks2( const Path:string; const FileIndexHigh, FileIndexLow:Card; const
List:TStrings ) : Bool
15840: Function NtfsDeleteHardLinks2( const FileName : string ) : Boolean';
15841: FindClass( 'TOBJECT' ), 'EJclFileSummaryError');
15842: TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )');
15843: TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )');
15844: TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean';
15845: CL.AddClassN(CL.FindClass('TOBJECT'), 'TJclFileSummary');
15846: SIRegister_TJclFilePropertySet(CL);
15847: //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15848: SIRegister_TJclFileSummary(CL);
15849: SIRegister_TJclFileSummaryInformation(CL);
15850: SIRegister_TJclDocSummaryInformation(CL);
15851: SIRegister_TJclMediaFileSummaryInformation(CL);
15852: SIRegister_TJclMSISummaryInformation(CL);
15853: SIRegister_TJclShellSummaryInformation(CL);
15854: SIRegister_TJclStorageSummaryInformation(CL);
15855: SIRegister_TJclImageSummaryInformation(CL);
15856: SIRegister_TJclDisplacedSummaryInformation(CL);
15857: SIRegister_TJclBriefCaseSummaryInformation(CL);
15858: SIRegister_TJclMiscSummaryInformation(CL);
15859: SIRegister_TJclWebViewSummaryInformation(CL);
15860: SIRegister_TJclMusicSummaryInformation(CL);
15861: SIRegister_TJclDRMSummaryInformation(CL);
15862: SIRegister_TJclVideoSummaryInformation(CL);
15863: SIRegister_TJclAudioSummaryInformation(CL);
15864: SIRegister_TJclControlPanelSummaryInformation(CL);
15865: SIRegister_TJclVolumeSummaryInformation(CL);
15866: SIRegister_TJclShareSummaryInformation(CL);
15867: SIRegister_TJclLinkSummaryInformation(CL);
15868: SIRegister_TJclQuerySummaryInformation(CL);
15869: SIRegister_TJclImageInformation(CL);
15870: SIRegister_TJclJpegSummaryInformation(CL);
15871: end;
15872:
15873: procedure SIRegister_Jcl8087(CL: TPPascalCompiler);
15874: begin
15875:   AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');
15876:   T8087Rounding', '( rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate )');
15877:   T8087Infinity', '( icProjective, icAffine )');
15878:   T8087Exception', '(emInvalidOp, emDenormalizedOperand, emZeroDivide, emOverflow, emUnderflow, emPrecision';
15879:   CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15880:   Function Get8087ControlWord : Word');
15881:   Function Get8087Infinity : T8087Infinity');
15882:   Function Get8087Precision : T8087Precision');
15883:   Function Get8087Rounding : T8087Rounding');
15884:   Function Get8087StatusWord( ClearExceptions : Boolean ) : Word');
15885:   Function Set8087Infinity( const Infinity : T8087Infinity ) : T8087Infinity');
15886:   Function Set8087Precision( const Precision : T8087Precision ) : T8087Precision');
15887:   Function Set8087Rounding( const Rounding : T8087Rounding ) : T8087Rounding');
15888:   Function Set8087ControlWord( const Control : Word ) : Word');
15889:   Function ClearPending8087Exceptions : T8087Exceptions');
15890:   Function GetPending8087Exceptions : T8087Exceptions');
15891:   Function GetMasked8087Exceptions : T8087Exceptions');
15892:   Function SetMasked8087Exceptions(Exceptions: T8087Exceptions; ClearBefore:Boolean) : T8087Exceptions');
15893:   Function Mask8087Exceptions( Exceptions:T8087Exceptions ) : T8087Exceptions');
15894:   Function Unmask8087Exceptions( Exceptions:T8087Exceptions; ClearBefore : Boolean ) : T8087Exceptions');
15895: end;
15896:
15897: procedure SIRegister_JvBoxProcs(CL: TPPascalCompiler);
15898: begin
15899:   Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl );
15900:   Procedure BoxMoveAllItems( SrcList, DstList : TWinControl );
15901:   Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
15902:   Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer );
15903:   Procedure BoxMoveSelected( List : TWinControl; Items : TStrings );
15904:   Procedure BoxSetItem( List : TWinControl; Index : Integer );
15905:   Function BoxGetFirstSelection( List : TWinControl ) : Integer );

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15906: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer) : Boolean';
15907: end;
15908:
15909: procedure SIRegister_UrlMon(CL: TPSPascalCompiler);
15910: begin
15911: //CL.AddConstantN('SZ_URLCONTEXT','POLEStr').SetString( 'URL Context');
15912: //CL.AddConstantN('SZ_ASYNC_CALLEE','POLEStr').SetString( 'AsyncCallee');
15913: CL.AddConstantN('MKSYS_URLMONIKER','LongInt').SetInt( 6);
15914: type ULONG', 'Cardinal');
15915:     LPCWSTR', 'PChar');
15916: CL.AddTypeS('LPWSTR', 'PChar');
15917: LPSTR', 'PChar');
15918: TBindVerb', 'ULONG');
15919: TBindInfoF', 'ULONG');
15920: TBindF', 'ULONG');
15921: TBindStatus', 'ULONG');
15922: TCIPStatus', 'ULONG');
15923: TBindString', 'ULONG');
15924: TPiFlags', 'ULONG');
15925: TOIBdgFlags', 'ULONG');
15926: TParseAction', 'ULONG');
15927: TPSUAction', 'ULONG');
15928: TQueryOption', 'ULONG');
15929: TPUAF', 'ULONG');
15930: TSZMFlags', 'ULONG');
15931: TUrlZone', 'ULONG');
15932: TUrlTemplate', 'ULONG');
15933: TZAFlags', 'ULONG');
15934: TUrlZoneReg', 'ULONG');
15935: 'URLMON_OPTION_USERAGENT', 'LongWord').SetUInt( $10000001);
15936: CL.AddConstantN('URLMON_OPTION_USERAGENT_REFRESH','LongWord').SetUInt( $10000002);
15937: const 'URLMON_OPTION_URL_ENCODING','LongWord').SetUInt( $10000004);
15938: const 'URLMON_OPTION_USE_BINDSTRINGCREDS','LongWord').SetUInt( $10000008);
15939: const 'CF_NULL','LongInt').SetInt( 0);
15940: const 'CFSTR_MIME_NULL','LongInt').SetInt( 0);
15941: const 'CFSTR_MIME_TEXT','String').SetString( 'text/plain');
15942: const 'CFSTR_MIME_RICHTEXT','String').SetString( 'text/richtext');
15943: const 'CFSTR_MIME_X_BITMAP','String').SetString( 'image/x-bitmap');
15944: const 'CFSTR_MIME_POSTSCRIPT','String').SetString( 'application/postscript');
15945: const 'CFSTR_MIME_AIFF','String').SetString( 'audio/aiff');
15946: const 'CFSTR_MIME_BASICAUDIO','String').SetString( 'audio/basic');
15947: const 'CFSTR_MIME_WAV','String').SetString( 'audio/wav');
15948: const 'CFSTR_MIME_X_WAV','String').SetString( 'audio/x-wav');
15949: const 'CFSTR_MIME_GIF','String').SetString( 'image/gif');
15950: const 'CFSTR_MIME_PJPEG','String').SetString( 'image/pjpeg');
15951: const 'CFSTR_MIME_JPEG','String').SetString( 'image/jpeg');
15952: const 'CFSTR_MIME_TIFF','String').SetString( 'image/tiff');
15953: const 'CFSTR_MIME_X_PNG','String').SetString( 'image/x-png');
15954: const 'CFSTR_MIME_BMP','String').SetString( 'image/bmp');
15955: const 'CFSTR_MIME_X_ART','String').SetString( 'image/x-jg');
15956: const 'CFSTR_MIME_X_EMF','String').SetString( 'image/x-emf');
15957: const 'CFSTR_MIME_X_WMF','String').SetString( 'image/x-wmf');
15958: const 'CFSTR_MIME_AVI','String').SetString( 'video/avi');
15959: const 'CFSTR_MIME_MPEG','String').SetString( 'video/mpeg');
15960: const 'CFSTR_MIME_FRACTALS','String').SetString( 'application/fractals');
15961: const 'CFSTR_MIME_RAWDATA','String').SetString( 'application/octet-stream');
15962: const 'CFSTR_MIME_RAWDATASTR','String').SetString( 'application/octet-stream');
15963: const 'CFSTR_MIME_PDF','String').SetString( 'application/pdf');
15964: const 'CFSTR_MIME_X_AIFF','String').SetString( 'audio/x-aiff');
15965: const 'CFSTR_MIME_X_REALAUDIO','String').SetString( 'audio/x-pn-realaudio');
15966: const 'CFSTR_MIME_X_XBM','String').SetString( 'image/xbm');
15967: const 'CFSTR_MIME_QUICKTIME','String').SetString( 'video/quicktime');
15968: const 'CFSTR_MIME_X_MSVIDEO','String').SetString( 'video/x-msvideo');
15969: const 'CFSTR_MIME_X_SGI_MOVIE','String').SetString( 'video/x-sgi-movie');
15970: const 'CFSTR_MIME_HTML','String').SetString( 'text/html');
15971: const 'MK_S_ASYNCNROUS','LongWord').SetUInt( $000401E8);
15972: const 'S_ASYNCNROUS','LongWord').SetUInt( $000401E8);
15973: const 'E_PENDING','LongWord').SetUInt( $8000000A);
15974: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IBinding, 'IBinding');
15975: SIRegister_IPersistMoniker(CL);
15976: SIRegister_IBindProtocol(CL);
15977: SIRegister_IBinding(CL);
15978: SIRegister_IBinding(CL);
15979: const 'BINDVERB_GET','LongWord').SetUInt( $00000000);
15980: const 'BINDVERB_POST','LongWord').SetUInt( $00000001);
15981: const 'BINDVERB_PUT','LongWord').SetUInt( $00000002);
15982: const 'BINDVERB_CUSTOM','LongWord').SetUInt( $00000003);
15983: const 'BINDINFO_URLENCODESTGMEDDATA','LongWord').SetUInt( $00000001);
15984: const 'BINDINFO_URLENCODEDEXTRAINFO','LongWord').SetUInt( $00000002);
15985: const 'BINDF_ASYNCNROUS','LongWord').SetUInt( $00000001);
15986: const 'BINDF_ASYNCNSTORAGE','LongWord').SetUInt( $00000002);
15987: const 'BINDF_NOPROGRESSIVERENDERING','LongWord').SetUInt( $00000004);
15988: const 'BINDF_OFFLINEOPERATION','LongWord').SetUInt( $00000008);
15989: const 'BINDF_GETNEWESTVERSION','LongWord').SetUInt( $00000010);
15990: const 'BINDF_NOWRITECACHE','LongWord').SetUInt( $00000020);
15991: const 'BINDF_NEEDFILE','LongWord').SetUInt( $00000040);
15992: const 'BINDF_PULLDATA','LongWord').SetUInt( $00000080);
15993: const 'BINDF_IGNORESECURITYPROBLEM','LongWord').SetUInt( $00000100);
15994: const 'BINDF_RESYNCHRONIZE','LongWord').SetUInt( $00000200);

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15995: const 'BINDF_HYPERLINK','LongWord').SetUInt( $00000400);
15996: const 'BINDF_NO_UI','LongWord').SetUInt( $00000800);
15997: const 'BINDF_SILENTOPERATION','LongWord').SetUInt( $00001000);
15998: const 'BINDF_PRAGMA_NO_CACHE','LongWord').SetUInt( $00002000);
15999: const 'BINDF_FREE_THREADS','LongWord').SetUInt( $00010000);
16000: const 'BINDF_DIRECT_READ','LongWord').SetUInt( $00020000);
16001: const 'BINDF_FORMS_SUBMIT','LongWord').SetUInt( $00040000);
16002: const 'BINDF_GETFROMCACHE_IF_NET_FAIL','LongWord').SetUInt( $00080000);
16003: //const 'BINDF_DONTUSECACHE','').SetString( BINDF_GETNEWESTVERSION);
16004: //const 'BINDF_DONTPUTINCACHE','').SetString( BINDF_NOWRITECACHE);
16005: //const 'BINDF_NOCOPYDATA','').SetString( BINDF_PULLDATA);
16006: const 'BSCF_FIRSTDATANOTIFICATION','LongWord').SetUInt( $00000001);
16007: const 'BSCF_INTERMEDIATEDATANOTIFICATION','LongWord').SetUInt( $00000002);
16008: const 'BSCF_LASTDATANOTIFICATION','LongWord').SetUInt( $00000004);
16009: const 'BSCF_DATAFULLYAVAILABLE','LongWord').SetUInt( $00000008);
16010: const 'BSCF_AVAILABLEDATASIZEUNKNOWN','LongWord').SetUInt( $00000010);
16011: const 'BINDSTATUS_FINDINGRESOURCE','LongInt').SetInt( 1);
16012: const 'BINDSTATUS_CONNECTING','LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
16013: const 'BINDSTATUS_REDIRECTING','LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
16014: const 'BINDSTATUS_BEGINDOWNLOADDATA','LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
16015: const 'BINDSTATUS_DOWNLOADINGDATA','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADDATA + 1);
16016: const 'BINDSTATUS_ENDDOWNLOADDATA','LongInt').SetInt( BINDSTATUS_DOWNLOADINGDATA + 1);
16017: const 'BINDSTATUS_BEGINDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADDATA + 1);
16018: const 'BINDSTATUS_INSTALLINGCOMPONENTS','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADCOMPONENTS + 1);
16019: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
16020: const 'BINDSTATUS_USINGCACHEDCOPY','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
16021: const 'BINDSTATUS_SENDINGREQUEST','LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
16022: const 'BINDSTATUS_CLASSIDAVAILABLE','LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
16023: const 'BINDSTATUS_MIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
16024: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
16025: const 'BINDSTATUS_BEGINSYNCOOPERATION','LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
16026: const 'BINDSTATUS_ENDSYNCOOPERATION','LongInt').SetInt( BINDSTATUS_BEGINSYNCOOPERATION + 1);
16027: const 'BINDSTATUS_BEGINUPLOADDATA','LongInt').SetInt( BINDSTATUS_ENDSYNCOOPERATION + 1);
16028: const 'BINDSTATUS_UPLOADINGDATA','LongInt').SetInt( BINDSTATUS_BEGINUPLOADDATA + 1);
16029: const 'BINDSTATUS_ENDUPLOADDATA','LongInt').SetInt( BINDSTATUS_UPLOADINGDATA + 1);
16030: const 'BINDSTATUS_PROTOCOLCLASSID','LongInt').SetInt( BINDSTATUS_ENDUPLOADDATA + 1);
16031: const 'BINDSTATUS_ENCODING','LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
16032: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_ENCODING + 1);
16033: const 'BINDSTATUS_CLASSINSTALLOCATION','LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
16034: const 'BINDSTATUS_DECODING','LongInt').SetInt( BINDSTATUS_CLASSINSTALLOCATION + 1);
16035: const 'BINDSTATUS_LOADINGMIMEHANDLER','LongInt').SetInt( BINDSTATUS_DECODING + 1);
16036: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH','LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
16037: const 'BINDSTATUS_FILTERREPORTMIMETYPE','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
16038: const 'BINDSTATUS_CLSIDCANINSTANTIATE','LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
16039: const 'BINDSTATUS_IUNKNOWNAVAILABLE','LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
16040: const 'BINDSTATUS_DIRECTBIND','LongInt').SetInt( BINDSTATUS_IUNKNOWNAVAILABLE + 1);
16041: const 'BINDSTATUS_RAWMIMETYPE','LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
16042: const 'BINDSTATUS_PROXYDETECTING','LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
16043: const 'BINDSTATUS_ACCEPTRANGES','LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
16044: const 'BINDSTATUS_COOKIE_SENT','LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
16045: const 'BINDSTATUS_COMPACT_POLICY_RECEIVED','LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);
16046: const 'BINDSTATUS_COOKIE_SUPPRESSED','LongInt').SetInt( BINDSTATUS_COMPACT_POLICY_RECEIVED + 1);
16047: const 'BINDSTATUS_COOKIE_STATE_UNKNOWN','LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
16048: const 'BINDSTATUS_COOKIE_STATE_ACCEPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_UNKNOWN + 1);
16049: const 'BINDSTATUS_COOKIE_STATE_REJECT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_ACCEPT + 1);
16050: const 'BINDSTATUS_COOKIE_STATE_PROMPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_REJECT + 1);
16051: const 'BINDSTATUS_COOKIE_STATE_LEASH','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_PROMPT + 1);
16052: const 'BINDSTATUS_COOKIE_STATE_DOWNGRADE','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_LEASH + 1);
16053: const 'BINDSTATUS_POLICY_HREF','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
16054: const 'BINDSTATUS_P3P_HEADER','LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
16055: const 'BINDSTATUS_SESSION_COOKIE_RECEIVED','LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
16056: const 'BINDSTATUS_PERSISTENT_COOKIE_RECEIVED','LongInt').SetInt( BINDSTATUS_SESSION_COOKIE_RECEIVED + 1);
16057: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED','LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE_RECEIVED + 1);
16058: const 'BINDSTATUS_CACHECONTROL','LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
16059: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME','LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
16060: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
16061: const 'BINDSTATUS_PUBLISHERAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
16062: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);
16063: // PBindInfo', '^TBindInfo // will not work');
16064: {_tagBINDINFO, 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
16065: +'medData : TStgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
16066: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
16067: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
16068: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
16069: TBindInfo', '_tagBINDINFO');
16070: BINDINFO', '_tagBINDINFO');
16071: _REMSecurityAttributes', 'record nLength : DWORD; lpSecurityDes'
16072: +'cryptor : DWORD; bInheritHandle : BOOL; end');
16073: TRemSecurityAttributes', '_REMSecurityAttributes');
16074: REMSecurityAttributes', '_REMSecurityAttributes');
16075: //PremBindInfo', '^TRemBindInfo // will not work');
16076: {_tagRemBINDINFO, 'record cbSize : ULONG; szExtraInfo : LPWSTR; '
16077: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16078: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16079: +'; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknow'
16080: +'n; dwReserved : DWORD; end');
16081: TRemBindInfo', '_tagRemBINDINFO');
16082: RemBINDINFO', '_tagRemBINDINFO');
16083: //PremFormatEtc', '^TRemFormatEtc // will not work');

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16084: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
16085: TRemFormatEtc', 'tagRemFORMATETC');
16086: RemFORMATETC', 'tagRemFORMATETC');
16087: SIRegister_IBindStatusCallback(CL);
16088: SIRegister_IAuthenticate(CL);
16089: SIRegister_IHttpNegotiate(CL);
16090: SIRegister_IWindowForBindingUI(CL);
16091: const 'CIP_DISK_FULL','LongInt').SetInt( 0 );
16092: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1 );
16093: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1 );
16094: const 'CIP_OLDER_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1 );
16095: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_OLDER_VERSION_EXISTS + 1 );
16096: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1 );
16097: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT','LongInt').SetInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1 );
16098: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1 );
16099: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1 );
16100: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1 );
16101: SIRegister_ICodeInstall(CL);
16102: SIRegister_IWInetInfo(CL);
16103: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534 );
16104: SIRegister_IHttpSecurity(CL);
16105: SIRegister_IWInetHttpInfo(CL);
16106: SIRegister_IBindHost(CL);
16107: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001 );
16108: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002 );
16109: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003 );
16110: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback ) : HResult';
16111: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback ) : HResult';
16112: Function URLDownloadToFile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB : IBindStatusCallback ) : HResult';
16113: Function URLDownloadToCacheFile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 : IBindStatusCallback ) : HResult';
16114: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out p3:IStream;p4:DWORD;p5:IBindStatusCallback):HResult';
16115: Function HlinkGoBack( unk : IUnknown ) : HResult';
16116: Function HlinkGoForward( unk : IUnknown ) : HResult';
16117: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult';
16118: // Function HlinkNavigateMoniker( Unk : IUnknown; mkTarget : IMoniker ) : HResult';
16119: SIRegister_IInternet(CL);
16120: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1 );
16121: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1 );
16122: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1 );
16123: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1 );
16124: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1 );
16125: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1 );
16126: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1 );
16127: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1 );
16128: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1 );
16129: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1 );
16130: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1 );
16131: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1 );
16132: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1 );
16133: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1 );
16134: //const 'POLEStrArray', '^TOLESTRArray // will not work';
16135: SIRegister_IInternetBindInfo(CL);
16136: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001 );
16137: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002 );
16138: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004 );
16139: const 'PI_USE_WORKERTHREAD','LongWord').SetUInt( $00000008 );
16140: const 'PI_MIMEVERIFICATION','LongWord').SetUInt( $00000010 );
16141: const 'PI_CLSIDLOOKUP','LongWord').SetUInt( $00000020 );
16142: const 'PI_DATAPROGRESS','LongWord').SetUInt( $00000040 );
16143: const 'PI_SYNCHRONOUS','LongWord').SetUInt( $00000080 );
16144: const 'PI_APARTMENTTHREADED','LongWord').SetUInt( $00000100 );
16145: const 'PI_CLASSINSTALL','LongWord').SetUInt( $00000200 );
16146: const 'PD_FORCE_SWITCH','LongWord').SetUInt( $00010000 );
16147: //const 'PI_DOCFILECLSIDLOOKUP','','').SetString( PI_CLSIDLOOKUP );
16148: //PProtocolData', '^TProtocolData // will not work';
16149: _tagPROTOCOLDATA', 'record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16150: TProtocolData', '_tagPROTOCOLDATA');
16151: PROTOCOLDATA', '_tagPROTOCOLDATA');
16152: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IIInternetProtocolSink, 'IIInternetProtocolSink');
16153: SIRegister_IInternetProtocolRoot(CL);
16154: SIRegister_IInternetProtocol(CL);
16155: SIRegister_IInternetProtocolSink(CL);
16156: const 'OIBDG_APARTMENTTHREADED','LongWord').SetUInt( $00000100 );
16157: SIRegister_IInternetSession(CL);
16158: SIRegister_IInternetThreadSwitch(CL);
16159: SIRegister_IInternetPriority(CL);
16160: const 'PARSE_CANONICALIZE','LongInt').SetInt( 1 );
16161: const 'PARSE_FRIENDLY','LongInt').SetInt( PARSE_CANONICALIZE + 1 );
16162: const 'PARSE_SECURITY_URL','LongInt').SetInt( PARSE_FRIENDLY + 1 );
16163: const 'PARSE_ROOTDOCUMENT','LongInt').SetInt( PARSE_SECURITY_URL + 1 );
16164: const 'PARSE_DOCUMENT','LongInt').SetInt( PARSE_ROOTDOCUMENT + 1 );
16165: const 'PARSE_ANCHOR','LongInt').SetInt( PARSE_DOCUMENT + 1 );
16166: const 'PARSE_ENCODE','LongInt').SetInt( PARSE_ANCHOR + 1 );
16167: const 'PARSE_DECODE','LongInt').SetInt( PARSE_ENCODE + 1 );
16168: const 'PARSE_PATH_FROM_URL','LongInt').SetInt( PARSE_DECODE + 1 );
16169: const 'PARSE_URL_FROM_PATH','LongInt').SetInt( PARSE_PATH_FROM_URL + 1 );

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16170: const 'PARSE_MIME','LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16171: const 'PARSE_SERVER','LongInt').SetInt( PARSE_MIME + 1);
16172: const 'PARSE_SCHEMA','LongInt').SetInt( PARSE_SERVER + 1);
16173: const 'PARSE_SITE','LongInt').SetInt( PARSE_SCHEMA + 1);
16174: const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16175: const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16176: const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16177: const 'PSU_DEFAULT','LongInt').SetInt( 1);
16178: const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16179: const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( 1);
16180: const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16181: const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16182: const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16183: const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16184: const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16185: const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16186: const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16187: const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16188: const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16189: const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16190: const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16191: const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16192: const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16193: SIRegister_IInternetProtocolInfo(CL);
16194: IOInet , 'IInternet');
16195: IOInetBindInfo , 'IInternetBindInfo');
16196: IOInetProtocolRoot , 'IInternetProtocolRoot');
16197: IOInetProtocol , 'IInternetProtocol');
16198: IOInetProtocolSink , 'IInternetProtocolSink');
16199: IOInetProtocolInfo , 'IInternetProtocolInfo');
16200: IOInetSession , 'IInternetSession');
16201: IOInetPriority , 'IInternetPriority');
16202: IOInetThreadSwitch , 'IInternetThreadSwitch');
16203: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16204: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16205: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult');
16206: Function CoInternetGetProtocolFlags(pwzUrl: LPCWSTR; var dwFlags DWORD; dwReserved:DWORD):HResult');
16207: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16208: Function CoInternetGetSession(dwSessionMode:DWORD; var pIInternetSession: IInternetSession;dwReserved:DWORD):HResult;
16209: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TPSUAction;dwReserv:DWORD):HResult;
16210: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16211: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16212: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : Hresult');
16213: Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult');
16214: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16215: Function OInetGetSession(dwSessionMode:DWORD; var pIInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16216: //Function CopyBindInfo( const cbisrc : TBindInfo; var bidest : TBindInfo) : HResult';
16217: //Procedure ReleaseBindInfo( const bindinfo : TBindInfo)');
16218: // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult ( $800C0011 ) );
16219: // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult ( $800C0012 ) );
16220: //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult ( $800C0011 ) );
16221: //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult ( $800C0013 ) );
16222: //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult ( $800C0014 ) );
16223: const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001);
16224: SIRegister_IInternetSecurityMgrSite(CL);
16225: const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001);
16226: const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002);
16227: const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16228: const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16229: const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16230: const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512);
16231: const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000);
16232: const 'PUAF_NOUI','LongWord').SetUInt( $00000001);
16233: const 'PUAF_ISFILE','LongWord').SetUInt( $00000002);
16234: const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004);
16235: const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008);
16236: const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010);
16237: const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020);
16238: const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040);
16239: const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16240: const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16241: const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200);
16242: const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16243: const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000);
16244: const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000);
16245: const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000);
16246: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000);
16247: const 'PUAF_NOUIIFLOCKED','LongWord').SetUInt( $00100000);
16248: const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0);
16249: const 'PUAFOUT_ISLOCKZONEPOLICY','LongWord').SetUInt( $1);

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16250: const 'SZM_CREATE', 'LongWord').SetUInt( $00000000);
16251: const 'SZM_DELETE', 'LongWord').SetUInt( $00000001);
16252: SIRegister_IInternetSecurityManager(CL);
16253: SIRegister_IInternetHostSecurityManager(CL);
16254: SIRegister_IInternetSecurityManagerEx(CL);
16255: const 'URLACTION_MIN', 'LongWord').SetUInt( $00001000);
16256: const 'URLACTION_DOWNLOAD_MIN', 'LongWord').SetUInt( $00001000);
16257: const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX', 'LongWord').SetUInt( $00001001);
16258: const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX', 'LongWord').SetUInt( $00001004);
16259: const 'URLACTION_DOWNLOAD_CURR_MAX', 'LongWord').SetUInt( $00001004);
16260: const 'URLACTION_DOWNLOAD_MAX', 'LongWord').SetUInt( $000011FF);
16261: const 'URLACTION_ACTIVEX_MIN', 'LongWord').SetUInt( $00001200);
16262: const 'URLACTION_ACTIVEX_RUN', 'LongWord').SetUInt( $00001200);
16263: const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY', 'LongWord').SetUInt( $00001201);
16264: const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY', 'LongWord').SetUInt( $00001202);
16265: const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY', 'LongWord').SetUInt( $00001203);
16266: const 'URLACTION_SCRIPT_OVERRIDE_SAFETY', 'LongWord').SetUInt( $00001401);
16267: const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY', 'LongWord').SetUInt( $00001204);
16268: const 'URLACTION_ACTIVEX_TREATASUNTRUSTED', 'LongWord').SetUInt( $00001205);
16269: const 'URLACTION_ACTIVEX_NOWEBOC_SCRIPT', 'LongWord').SetUInt( $00001206);
16270: const 'URLACTION_ACTIVEX_CURR_MAX', 'LongWord').SetUInt( $00001206);
16271: const 'URLACTION_ACTIVEX_MAX', 'LongWord').SetUInt( $000013FF);
16272: const 'URLACTION_SCRIPT_MIN', 'LongWord').SetUInt( $00001400);
16273: const 'URLACTION_SCRIPT_RUN', 'LongWord').SetUInt( $00001400);
16274: const 'URLACTION_SCRIPT_JAVA_USE', 'LongWord').SetUInt( $00001402);
16275: const 'URLACTION_SCRIPT_SAFE_ACTIVEX', 'LongWord').SetUInt( $00001405);
16276: const 'URLACTION_SCRIPT_CURR_MAX', 'LongWord').SetUInt( $00001405);
16277: const 'URLACTION_SCRIPT_MAX', 'LongWord').SetUInt( $000015FF);
16278: const 'URLACTION_HTML_MIN', 'LongWord').SetUInt( $00001600);
16279: const 'URLACTION_HTML_SUBMIT_FORMS', 'LongWord').SetUInt( $00001601);
16280: const 'URLACTION_HTML_SUBMIT_FORMS_FROM', 'LongWord').SetUInt( $00001602);
16281: const 'URLACTION_HTML_SUBMIT_FORMS_TO', 'LongWord').SetUInt( $00001603);
16282: const 'URLACTION_HTML_FONT_DOWNLOAD', 'LongWord').SetUInt( $00001604);
16283: const 'URLACTION_HTML_JAVA_RUN', 'LongWord').SetUInt( $00001605);
16284: const 'URLACTION_HTML_CURR_MAX', 'LongWord').SetUInt( $00001605);
16285: const 'URLACTION_HTML_MAX', 'LongWord').SetUInt( $000017FF);
16286: const 'URLACTION_SHELL_MIN', 'LongWord').SetUInt( $00001800);
16287: const 'URLACTION_SHELL_INSTALL_DTITEMS', 'LongWord').SetUInt( $00001800);
16288: const 'URLACTION_SHELL_MOVE_OR_COPY', 'LongWord').SetUInt( $00001802);
16289: const 'URLACTION_SHELL_FILE_DOWNLOAD', 'LongWord').SetUInt( $00001803);
16290: const 'URLACTION_SHELL_VERB', 'LongWord').SetUInt( $00001804);
16291: const 'URLACTION_SHELL_WEBVIEW_VERB', 'LongWord').SetUInt( $00001805);
16292: const 'URLACTION_SHELL_SHELLEXECUTE', 'LongWord').SetUInt( $00001806);
16293: const 'URLACTION_SHELL_EXECUTE_HIGHRISK', 'LongWord').SetUInt( $00001806);
16294: const 'URLACTION_SHELL_EXECUTE_MODRISK', 'LongWord').SetUInt( $00001807);
16295: const 'URLACTION_SHELL_EXECUTE_LOWRISK', 'LongWord').SetUInt( $00001808);
16296: const 'URLACTION_SHELL_POPUPMGR', 'LongWord').SetUInt( $00001809);
16297: const 'URLACTION_SHELL_CURR_MAX', 'LongWord').SetUInt( $00001809);
16298: const 'URLACTION_SHELL_MAX', 'LongWord').SetUInt( $000019ff);
16299: const 'URLACTION_NETWORK_MIN', 'LongWord').SetUInt( $00001A00);
16300: const 'URLACTION_CREDENTIALS_USE', 'LongWord').SetUInt( $00001A00);
16301: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK', 'LongWord').SetUInt( $00000000);
16302: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER', 'LongWord').SetUInt( $00010000);
16303: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT', 'LongWord').SetUInt( $00020000);
16304: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY', 'LongWord').SetUInt( $00030000);
16305: const 'URLACTION_AUTHENTICATE_CLIENT', 'LongWord').SetUInt( $00001A01);
16306: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK', 'LongWord').SetUInt( $00000000);
16307: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE', 'LongWord').SetUInt( $00010000);
16308: const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY', 'LongWord').SetUInt( $00030000);
16309: const 'URLACTION_NETWORK_CURR_MAX', 'LongWord').SetUInt( $00001A01);
16310: const 'URLACTION_NETWORK_MAX', 'LongWord').SetUInt( $00001BFF);
16311: const 'URLACTION_JAVA_MIN', 'LongWord').SetUInt( $00001C00);
16312: const 'URLACTION_JAVA_PERMISSIONS', 'LongWord').SetUInt( $00001C00);
16313: const 'URLPOLICY_JAVA_PROHIBIT', 'LongWord').SetUInt( $00000000);
16314: const 'URLPOLICY_JAVA_HIGH', 'LongWord').SetUInt( $00010000);
16315: const 'URLPOLICY_JAVA_MEDIUM', 'LongWord').SetUInt( $00020000);
16316: const 'URLPOLICY_JAVA_LOW', 'LongWord').SetUInt( $00030000);
16317: const 'URLPOLICY_JAVA_CUSTOM', 'LongWord').SetUInt( $00800000);
16318: const 'URLACTION_JAVA_CURR_MAX', 'LongWord').SetUInt( $00001C00);
16319: const 'URLACTION_JAVA_MAX', 'LongWord').SetUInt( $00001CFF);
16320: const 'URLACTION_INFODELIVERY_MIN', 'LongWord').SetUInt( $00001D00);
16321: const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS', 'LongWord').SetUInt( $00001D00);
16322: const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS', 'LongWord').SetUInt( $00001D01);
16323: const 'URLACTION_INFODELIVERY_NO_NO_Removing_CHANNELS', 'LongWord').SetUInt( $00001D02);
16324: const 'URLACTION_INFODELIVERY_NO_NO_ADDING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D03);
16325: const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D04);
16326: const 'URLACTION_INFODELIVERY_NO_NO_Removing_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D05);
16327: const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING', 'LongWord').SetUInt( $00001D06);
16328: const 'URLACTION_INFODELIVERY_CURR_MAX', 'LongWord').SetUInt( $00001D06);
16329: const 'URLACTION_INFODELIVERY_MAX', 'LongWord').SetUInt( $00001Dff);
16330: const 'URLACTION_CHANNEL_SOFTDIST_MIN', 'LongWord').SetUInt( $00001E00);
16331: const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS', 'LongWord').SetUInt( $00001E05);
16332: const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT', 'LongWord').SetUInt( $00010000);
16333: const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE', 'LongWord').SetUInt( $00020000);
16334: const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL', 'LongWord').SetUInt( $00030000);
16335: const 'URLACTION_CHANNEL_SOFTDIST_MAX', 'LongWord').SetUInt( $00001EFF);
16336: const 'URLACTION_BEHAVIOR_MIN', 'LongWord').SetUInt( $00002000);
16337: const 'URLACTION_BEHAVIOR_RUN', 'LongWord').SetUInt( $00002000);
16338: const 'URLPOLICY_BEHAVIOR_CHECK_LIST', 'LongWord').SetUInt( $00010000);

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16339: const 'URLACTION_FEATURE_MIN','LongWord').SetUInt( $00002100);
16340: const 'URLACTION_FEATURE_MIME_SNIFFING','LongWord').SetUInt( $00002100);
16341: const 'URLACTION_FEATURE_ZONE_ELEVATION','LongWord').SetUInt( $00002101);
16342: const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS','LongWord').SetUInt( $00002102);
16343: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN','LongWord').SetUInt( $00002200);
16344: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI','LongWord').SetUInt( $00002200);
16345: const 'URLACTION_AUTOMATIC_ACTIVEX_UI','LongWord').SetUInt( $00002201);
16346: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS','LongWord').SetUInt( $00002300);
16347: const 'URLPOLICY_ALLOW','LongWord').SetUInt( $00);
16348: const 'URLPOLICY_QUERY','LongWord').SetUInt( $01);
16349: const 'URLPOLICY_DISALLOW','LongWord').SetUInt( $03);
16350: const 'URLPOLICY_NOTIFY_ON_ALLOW','LongWord').SetUInt( $10);
16351: const 'URLPOLICY_NOTIFY_ON_DISALLOW','LongWord').SetUInt( $20);
16352: const 'URLPOLICY_LOG_ON_ALLOW','LongWord').SetUInt( $40);
16353: const 'URLPOLICY_LOG_ON_DISALLOW','LongWord').SetUInt( $80);
16354: const 'URLPOLICY_MASK_PERMISSIONS','LongWord').SetUInt( $0f);
16355: Function GetUrlPolicyPermissions( dw : DWORD ) : DWORD';
16356: Function SetUrlPolicyPermissions( dw, dw2 : DWORD ) : DWORD';
16357: const 'URLZONE_PREDEFINED_MIN','LongInt').SetInt( 0);
16358: const 'URLZONE_LOCAL_MACHINE','LongInt').SetInt( 0);
16359: const 'URLZONE_INTRANET','LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16360: const 'URLZONE_TRUSTED','LongInt').SetInt( URLZONE_INTRANET + 1);
16361: const 'URLZONE_INTERNET','LongInt').SetInt( URLZONE_TRUSTED + 1);
16362: const 'URLZONE_UNTRUSTED','LongInt').SetInt( URLZONE_INTERNET + 1);
16363: const 'URLZONE_PREDEFINED_MAX','LongInt').SetInt( 999);
16364: const 'URLZONE_USER_MIN','LongInt').SetInt( 1000);
16365: const 'URLZONE_USER_MAX','LongInt').SetInt( 10000);
16366: const 'URLTEMPLATE_CUSTOM','LongWord').SetUInt( $00000000);
16367: const 'URLTEMPLATE_PREDEFINED_MIN','LongWord').SetUInt( $00010000);
16368: const 'URLTEMPLATE_LOW','LongWord').SetUInt( $00010000);
16369: const 'URLTEMPLATE_MEDIUM','LongWord').SetUInt( $00011000);
16370: const 'URLTEMPLATE_HIGH','LongWord').SetUInt( $00012000);
16371: const 'URLTEMPLATE_PREDEFINED_MAX','LongWord').SetUInt( $00020000);
16372: const 'MAX_ZONE_PATH','LongInt').SetInt( 260);
16373: const 'MAX_ZONE_DESCRIPTION','LongInt').SetInt( 200);
16374: const 'ZAFLAGS_CUSTOM_EDIT','LongWord').SetUInt( $00000001);
16375: const 'ZAFLAGS_ADD_SITES','LongWord').SetUInt( $00000002);
16376: const 'ZAFLAGS_REQUIRE_VERIFICATION','LongWord').SetUInt( $00000004);
16377: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE','LongWord').SetUInt( $00000008);
16378: const 'ZAFLAGS_INCLUDE_INTRANET_SITES','LongWord').SetUInt( $00000010);
16379: const 'ZAFLAGS_NO_UI','LongWord').SetUInt( $00000020);
16380: const 'ZAFLAGS_SUPPORTS_VERIFICATION','LongWord').SetUInt( $00000040);
16381: const 'ZAFLAGS_UNC_AS_INTRANET','LongWord').SetUInt( $00000080);
16382: const 'ZAFLAGS_USE_LOCKED_ZONES','LongWord').SetUInt( $00010000);
16383: //PZoneAttributes', '^TZoneAttributes // will not work');
16384: _ZONEATTRIBUTES', 'record cbSize:ULONG;szDisplayName:array [0..260-1] of Char;szDescription:array [0..200 - 1] of Char;szIconPath: array [0..260 - 1] of char; dwTemplateMinLevel: DWORD; dwTemplateRecommended: DWORD; dwTemplateCurrentLevel: DWORD; dwFlags: DWORD; end');
16385: { _ZONEATTRIBUTES = packed record
16386:   cbSize: ULONG;
16387:   szDisplayName: array [0..260 - 1] of WideChar;
16388:   szDescription: array [0..200 - 1] of WideChar;
16389:   szIconPath: array [0..260 - 1] of WideChar;
16390:   dwTemplateMinLevel: DWORD;
16391:   dwTemplateRecommended: DWORD;
16392:   dwTemplateCurrentLevel: DWORD;
16393:   dwFlags: DWORD;
16394: end; }
16395: TZoneAttributes', '_ZONEATTRIBUTES');
16396: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16397: const 'URLZONEREG_DEFAULT','LongInt').SetInt( 0);
16398: const 'URLZONEREG_HKLM','LongInt').SetInt( URLZONEREG_DEFAULT + 1);
16399: const 'URLZONEREG_HKCU','LongInt').SetInt( URLZONEREG_HKLM + 1);
16400: SIRegister_IInternetZoneManager(CL);
16401: SIRegister_IInternetZoneManagerEx(CL);
16402: const 'SOFTDIST_FLAG_USAGE_EMAIL','LongWord').SetUInt( $00000001);
16403: const 'SOFTDIST_FLAG_USAGE_PRECACHE','LongWord').SetUInt( $00000002);
16404: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL','LongWord').SetUInt( $00000004);
16405: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION','LongWord').SetUInt( $00000008);
16406: const 'SOFTDIST_ADSTATE_NONE','LongWord').SetUInt( $00000000);
16407: const 'SOFTDIST_ADSTATE_AVAILABLE','LongWord').SetUInt( $00000001);
16408: const 'SOFTDIST_ADSTATE_DOWNLOADED','LongWord').SetUInt( $00000002);
16409: const 'SOFTDIST_ADSTATE_INSTALLED','LongWord').SetUInt( $00000003);
16410: //PCCodeBaseHold', '^TCodeBaseHold // will not work');
16411: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR; '
16412: +'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionLS : DWORD; dwStyle : DWORD; dwAdve' );
16413: TCodeBaseHold', '_tagCODEBASEHOLD');
16414: CODEBASEHOLD', '_tagCODEBASEHOLD');
16415: //PSoftDistInfo', '^TSoftDistInfo // will not work');
16416: _tagSOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd'
16417: +'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI'
16418: +'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS'
16419: +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve'
16420: +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16421: TSoftDistInfo', '_tagSOFTDISTINFO');
16422: SOFTDISTINFO', '_tagSOFTDISTINFO');
16423: SIRegister_ISoftDistExt(CL);
16424: Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo ) : HResult';
16425: Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : DWORD) : HResult';

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16426:  SIRegister_IDataFilter(CL);
16427:  // PProtocolFilterData', '^TProtocolFilterData // will not work');
16428:  _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink : '
16429:  +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil'
16430:  +'terFlags : DWORD; end');
16431:  TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16432:  PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16433:  //PDATADInfo', '^TDataInfo // will not work');
16434:  _tagDATADINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL'
16435:  +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16436:  TDataInfo', '_tagDATADINFO');
16437:  DATADINFO', '_tagDATADINFO');
16438:  SIRegister_IEncodingFilterFactory(CL);
16439:  Function IsLoggingEnabled( pszUrl : PChar ) : BOOL';
16440:  //Function IsLoggingEnabledA( pszUrl : PAnsiChar ) : BOOL';
16441:  //Function IsLoggingEnabledW( pszUrl : PWideChar ) : BOOL';
16442:  //PHitLoggingInfo', '^THitLoggingInfo // will not work');
16443:  _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU'
16444:  +'rlName : LPSTR; StartTime : TSystemTime; EndTime: TSystemTime; lpszExtendedInfo : LPSTR; end');
16445:  THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16446:  HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16447:  Function WriteHitLogging( const Logginginfo : THitLoggingInfo ) : BOOL';
16448: end;
16449:
16450: procedure SIRegister_DFFUtils(CL: TPPSPascalCompiler);
16451: begin
16452:  Procedure reformatMemo( const m : TCustomMemo );
16453:  Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer );
16454:  Procedure MoveToTop( memo : TMemo );
16455:  Procedure ScrollToTop( memo : TMemo );
16456:  Function LineNumberClicked( memo : TMemo ) : integer';
16457:  Function MemoClickedLine( memo : TMemo ) : integer';
16458:  Function ClickedMemoLine( memo : TMemo ) : integer');
16459:  Function MemoLineClicked( memo : TMemo ) : integer');
16460:  Function LinePositionClicked( Memo : TMemo ) : integer');
16461:  Function ClickedMemoPosition( memo : TMemo ) : integer');
16462:  Function MemoPositionClicked( memo : TMemo ) : integer');
16463:  Procedure AdjustGridSize( grid : TDrawGrid );
16464:  Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer );
16465:  Procedure InsertgridRow( Grid : TStringGrid; const ARow : integer );
16466:  Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer );
16467:  Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascending : boolean );
16468:  Procedure sortstrDown( var s : string );
16469:  Procedure sortstrUp( var s : string );
16470:  Procedure rotatestrleft( var s : string );
16471:  Function dffstrtofloatdef( s : string; default : extended ) : extended';
16472:  Function deblank( s : string ) : string';
16473:  Function IntToBinaryString( const n : integer; MinLength : integer ) : string';
16474:  Procedure FreeAndClearListBox( C : TListBox );
16475:  Procedure FreeAndClearMemo( C : TMemo );
16476:  Procedure FreeAndClearStringList( C : TStringList );
16477:  Function dffgetfilesize( f : TSearchrec ) : int64';
16478: end;
16479:
16480: procedure SIRegister_MathsLib(CL: TPPSPascalCompiler);
16481: begin
16482:  CL.AddTypeS('intset', 'set of byte');
16483:  TPoint64', 'record x: int64; y : int64; end');
16484:  Function GetNextPandigital( size : integer; var Digits : array of integer ) : boolean';
16485:  Function IsPolygonal( T : int64; var rank : array of integer ) : boolean';
16486:  Function GeneratePentagon( n : integer ) : integer';
16487:  Function IsPentagon( p : integer ) : boolean';
16488:  Function isSquare( const N : int64 ) : boolean';
16489:  Function isCube( const N : int64 ) : boolean';
16490:  Function isPalindrome( const n : int64 ) : boolean';
16491:  Function isPalindromel( const n : int64; var len : integer ) : boolean';
16492:  Function GetEulerPhi( n : int64 ) : int64';
16493:  Function dffIntPower( a, b : int64 ) : int64';
16494:  Function IntPowerl( a : extended; b : int64 ) : extended';
16495:  Function gcd2( a, b : int64 ) : int64';
16496:  Function GCDMany( A : array of integer ) : integer';
16497:  Function LCMMany( A : array of integer ) : integer';
16498:  Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16499:  Function dffFactorial( n : int64 ) : int64';
16500:  Function digitcount( n : int64 ) : integer';
16501:  Function nextpermute( var a : array of integer ) : boolean';
16502:  Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string';
16503:  Function convertStringToDecimal( s : string; var n : extended ) : Boolean';
16504:  Function InttoBinaryStr( nn : integer ) : string';
16505:  Function StrtoAngle( const s : string; var angle : extended ) : boolean';
16506:  Function AngleToStr( angle : extended ) : string';
16507:  Function deg2rad( deg : extended ) : extended';
16508:  Function rad2deg( rad : extended ) : extended';
16509:  Function GetLongToMercProjection( const long : extended ) : extended';
16510:  Function GetLatToMercProjection( const Lat : Extended ) : Extended';
16511:  Function GetMercProjectionToLong( const ProjLong : extended ) : extended';
16512:  Function GetMercProjectionToLat( const ProjLat : extended ) : extended';
16513:  SIRegister_TPrimes(CL);
16514:  //RIRegister_TPrimes(CL);

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16515: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16516: CL.AddConstantN('minmark','LongInt').SetInt( 180));
16517: Function Random64( const N : Int64) : Int64;');
16518: Procedure Randomize64');
16519: Function Random641 : extended;');
16520: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist)//DFFUUtils
16521: end;
16522:
16523: procedure SIRegister_UGeometry(CL: TPSPascalCompiler);
16524: begin
16525:   TrealPoint', 'record x : extended; y : extended; end');
16526:   Tline', 'record p1 : TPoint; p2 : TPoint; end');
16527:   TRealLine', 'record p1 : TRealPoint; p2 : TRealPoint; end');
16528:   TCircle', 'record cx : integer; cy : integer; r : integer; end');
16529:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16530:   PPResult', '( PPOutside, PPInside, PPVertex, PPEdge, PPError )');
16531:   Function realpoint( x, y : extended ) : TRealPoint');
16532:   Function dist( const p1, p2 : TrealPoint ) : extended');
16533:   Function intdist( const p1, p2 : TPoint ) : integer');
16534:   Function dffline( const p1, p2 : TPoint ) : Tline');
16535:   Function Line1( const p1, p2 : TRealPoint ) : TRealLine');
16536:   Function dffCircle( const cx, cy, R : integer ) : TCircle');
16537:   Function Circle1( const cx, cy, R : extended ) : TRealCircle');
16538:   Function GetTheta( const L : TLine ) : extended');
16539:   Function GetTheta1( const p1, p2 : TPoint ) : extended');
16540:   Function GetTheta2( const p1, p2 : TRealPoint ) : extended');
16541:   Procedure Extendline( var L : TLine; dist : integer );
16542:   Procedure Extendline1( var L : TRealLine; dist : extended );
16543:   Function Linesintersect( line1, line2 : TLine ) : boolean');
16544:   Function ExtendedLinesIntersect(Line1,Line2:TLine; const extendlines:bool;var IP:TPoint):bool;
16545:   Function ExtendedlinesIntersect1(const Line1,Line2:TLine;const extendlines:bool;var IP:TRealPoint):bool;
16546:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean');
16547:   Function PointPerpendicularLine( L : TLine; P : TPoint ) : TLine');
16548:   Function PerpDistance( L : TLine; P : TPoint ) : Integer');
16549:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine');
16550:   Function
     AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16551:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult');
16552:   Function PolygonArea(const points:array of TPoint;const screencoordinates:boolean;var
     Clockwise:bool):integer;
16553:   Procedure InflatePolygon(const points:array of Tpoint; var points2:array of TPoint;var area:integer;
     const screenCoordinates : boolean; const inflateby : integer)');
16554:   Function PolyBuiltClockwise(const points:array of TPoint;const screencoordinates:boolean):bool;
16555:   Function DegtoRad( d : extended ) : extended');
16556:   Function RadtoDeg( r : extended ) : extended');
16557:   Procedure TranslateLeftTo( var L : TLine; newend : TPoint );
16558:   Procedure TranslateLeftTol( var L : TrealLine; newend : TrealPoint );
16559:   Procedure RotateRightEndBy( var L : TLine; alpha : extended );
16560:   Procedure RotateRightEndTo( var L : TLine; alpha : extended );
16561:   Procedure RotateRightEndTol( var p1, p2 : Trealpoint; alpha : extended );
16562:   Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, Ip2 : TPoint ) : boolean );
16563:   Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, Ip2 : TRealPoint ) : boolean );
16564:   Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine ) : boolean );
16565:   Function CircleCircleExtTangentLines(C1,C2:TCircle;var C3:TCircle;var L1,L2,PL1,PL2,TL1,TL2:TLine):Bool;
16566: end;
16567:
16568:
16569: procedure SIRegister_UAstronomy(CL: TPSPascalCompiler);
16570: begin
16571:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat )');
16572:   TDType', '( ttLocal, ttUT, ttGST, ttLST )');
16573:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16574:   TSunrec', 'record TrueEclLon:extended;
     AppEclLon:extended;AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
     TrueAzAl:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRpoint;SunMeanAnomaly:extended;end;
16575:   TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl : '
     +' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'
16576:   +'arth : extended; Phase : extended; end');
16577:   +'arth : extended; Phase : extended; end');
16578:   TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16579:   +'Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDateTime; end');
16580:   TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16581:   +'ct : TDatetime; LastContact : Date; Magnitude:Extended;MaxeclipseUTime:TDateTIme;end');
16582:   TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16583:   TPlanetRec', 'record AsOf : Date; Name : string; MeanLon : '
16584:   +'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16585:   +'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16586:   +'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16587:   TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentricLonLat : TRpoint; RadiusVector : '
     extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRpoint; CorrectedEarthDistance:extended;
     ApparentRaDecl:TRPoint; end');
16588:   SIRegister_TAstronomy(CL);
16589:   Function AngleToStr( angle : extended ) : string );
16590:   Function StrToAngle( s : string; var angle : extended ) : boolean );
16591:   Function HoursToStr24( t : extended ) : string );
16592:   Function RPoint( x, y : extended ) : TRPoint );
16593:   Function getStimename( t : TDType ) : string );
16594: end;
16595:
16596: procedure SIRegister_UCardComponentV2(CL: TPSPascalCompiler);

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16597: begin
16598:   TCardValue', 'Integer');
16599:   TCardSuit', '( Spades, Diamonds, Clubs, Hearts )');
16600:   TShortSuit', '( cardsS, cardD, cardC, cardH )');
16601:   Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16602:   SIRegister_TCard(CL);
16603:   SIRegister_TDeck(CL);
16604: end;
16605:
16606: procedure SIRegister_UTGraphSearch(CL: TPPascalCompiler);
16607: begin
16608:   tMethodCall', 'Procedure');
16609:   tVerboseCall', 'Procedure ( s : string)');
16610: // PTEdge', '^TEdge // will not work');
16611:   TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer;
16612:     +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16613:   SIRegister_TNode(CL);
16614:   SIRegister_TGraphList(CL);
16615: end;
16616:
16617: procedure SIRegister_UParser10(CL: TPPascalCompiler);
16618: begin
16619:   ParserFloat', 'extended');
16620: //PParserFloat', '^ParserFloat // will not work');
16621:   TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod'
16622:     +'ulo, IntDiv, IntDIVZ, integerpower, realpower,square,third,fourth,FuncOneVar,FuncTwoVar ');
16623: //POperation', 'TOperation // will not work');
16624:   TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16625:     +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure'
16626:     +'; Token : TDFFToken; end');
16627:   TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16628:   (CL.FindClass('TOBJECT'),'EMathParserError');
16629:   CL.FindClass('TOBJECT'),'ESyntaxError');
16630:   (CL.FindClass('TOBJECT'),'EExpressionHasBlanks');
16631:   (CL.FindClass('TOBJECT'),'EExpressionTooComplex');
16632:   (CL.FindClass('TOBJECT'),'ETooManyNestings');
16633:   (CL.FindClass('TOBJECT'),'EMissMatchingBracket');
16634:   (CL.FindClass('TOBJECT'),'EBadName');
16635:   (CL.FindClass('TOBJECT'),'EParseInternalError');
16636: ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16637:   SIRegister_TCustomParser(CL);
16638:   SIRegister_TExParser(CL);
16639: end;
16640:
16641:   function isService: boolean;
16642: begin
16643:   result:= NOT(Application is TApplication);
16644:   {result:= Application is TServiceApplication;}
16645: end;
16646:   function isApplication: boolean;
16647: begin
16648:   result:= Application is TApplication;
16649: end;
16650: //SM_REMOTESESSION = $1000
16651:   function isTerminalSession: boolean;
16652: begin
16653:   result:= GetSystemMetrics(SM_REMOTESESSION) > 0;
16654: end;
16655:
16656: procedure SIRegister_cyIEUtils(CL: TPPascalCompiler);
16657: begin
16658:   CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header : '
16659:     +'String; margin_bottom : String; margin_left : String; margin_right : String'
16660:     +'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16661:   Function cyURLEncode( const S : string ) : string';
16662:   Function MakeResourceURL( const ModuleName:string;const ResName:PChar;const ResType:PChar ):string;
16663:   Function MakeResourceURL1( const Module:HMODULE;const ResName:PChar;const ResType:PChar ):string;
16664:   Function cyColorToHtml( aColor : TColor ) : String';
16665:   Function HtmlToColor( aHtmlColor : String ) : TColor';
16666: //Function GetStreamEncoding( aStream : TStream ) : TEncoding';
16667: // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding ) : Boolean';
16668:   Function AddHtmlUnicodePrefix( aHtml : String ) : String';
16669:   Function RemoveHtmlUnicodePrefix( aHtml : String ) : String';
16670:   Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16671:   Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16672:   CL.AddConstantN('IEBodyBorderless','String').SetString('none');
16673:   CL.AddConstantN('IEBodySingleBorder','String').SetString('');
16674:   CL.AddConstantN('IEDesignModeOn','String').SetString('On');
16675:   CL.AddConstantN('IEDesignModeOff','String').SetString('Off');
16676:   CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF );
16677:   CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE );
16678: end;
16679:
16680:
16681: procedure SIRegister_UcomboV2(CL: TPPascalCompiler);
16682: begin
16683:   CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16684:   CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe'
16685:     +'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe'

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16686:   +'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb'
16687:   +'inationsRepeat, CombinationsRepeatDown ');
16688: CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16689: SIRegister_TComboSet(CL);
16690: end;
16691:
16692: procedure SIRegister_cyBaseComm(CL: TPSPascalCompiler);
16693: begin
16694:   TcyCommandType', '( ctDeveloperDefined, ctUserDefined )');
16695:   TStreamContentType', '( scDeveloperDefined, scUserDefined, scString )');
16696:   TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16697:   TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo'
16698:   +'mmHandle : THandle; aString : String; userParam : Integer )';
16699:   TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from'
16700:   +'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16701:   SIRegister_TcyBaseComm(CL);
16702: CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1);
16703: CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16704: Function ValidateFileName( aName : String ) : String';
16705: procedure makeCaption(leftSide, Rightside:string; form:TForm);
16706: end;
16707:
16708: procedure SIRegister_cyDERUtils(CL: TPSPascalCompiler);
16709: begin
16710:   CL.AddTypeS('DERString', 'String');
16711:   CL.AddTypeS('DERChar', 'Char');
16712:   CL.AddTypeS('TElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt'
16713:   +'eger, etFloat, etPercentage, etwebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph )');
16714:   CL.AddTypeS('TElementsTypes', 'set of TELEMENTSType');
16715:   CL.AddTypeS('DERNString', 'String');
16716: const DERDecimalSeparator', 'String').SetString( '.' );
16717: const DERDefaultChars', 'String')('+@/%-
16718: -.:0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ');
16719: const DERNDefaultChars', 'String').SetString( '/%-.0123456789abcdefghijklmnopqrstuvwxyz' );
16720: CL.AddDelphiFunction('Function isValidWebSiteChar( aChar : Char ) : Boolean');
16721: Function isValidWebSite( aStr : String ) : Boolean';
16722: Function isValidWebMail( aStr : String ) : Boolean';
16723: Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16724: Function DERStrToDate( aDERStr, aFormat : String ) : TDate';
16725: Function IsDERChar( aChar : Char ) : Boolean';
16726: Function IsDERDefaultChar( aChar : Char ) : Boolean';
16727: Function IsDERMoneyChar( aChar : Char ) : Boolean';
16728: Function IsDERExceptionCar( aChar : Char ) : Boolean';
16729: Function IsDERSymbols( aDERString : String ) : Boolean';
16730: Function StringToDERCharSet( aStr : String ) : DERString';
16731: Function IsDERDefaultChar( aChar : Char ) : Boolean';
16732: Function IsDERNChar( aChar : Char ) : Boolean';
16733: Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16734: Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String';
16735: Function DERExtractWebMail( aDERStr : DERString ) : String';
16736: Function DERExtractPhoneNr( aDERStr : DERString ) : String';
16737: Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16738: Function DERExecute(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16739: Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition: Boolean;
aElementsType : TELEMENTSType) : String');
16740: Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
Boolean; var RsltDERStr : DERString; var RsltElementType : TELEMENTSType);';
16741: end;
16742:
16743: procedure SIRegister_cyImage(CL: TPSPascalCompiler);
16744: begin
16745:   PRGBQuadArray', '^TRGBQuadArray // will not work';
16746:   Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer';
16747:   Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)';
16748:   Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)';
16749:   Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16750:   Procedure BitmapSetPixelsContrast( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)';
16751:   Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean)';
16752:   Procedure BitmapModifyRGB(Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool;
16753:   Procedure BitmapReplaceColor( Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean);';
16754:   Procedure BitmapReplaceColor1( Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
PercentRange2Blue:Double;SingleDestinationColor: Boolean;RefreshBmp:Bool;');
16755:   Procedure BitmapReplaceColors(Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
SingleDestinationColor, RefreshBmp : Boolean)');
16756:   Procedure BitmapResize(SourceBmp TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean)';
16757:   Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor)');
16758:   Procedure BitmapBlur( SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent:Integer;RefreshBmp:Bool;
16759:   Procedure GraphicMirror(Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal,Vertical:Bool;
16760:   Procedure GraphicMirror1(Source:TGraphic;Destination:TBitmap;Horizontal:Boolean;Vertical:Boolean);');
16761:   Function BitmapCreate(BmpWidth:Integer;BmpHeight:Integer;BgColor:TColor;PixelFormat:TPixelFormat):TBitmap;
16762:   Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word)' );
16763:   Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String)' );
16764: end;

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16765:
16766: procedure SIRегистер_WaveUtils(CL: TPSPascalCompiler);
16767: begin
16768:   TMS2StrFormat', '( msHMSh, msHMS, msMSh, msMS, msSh, msS, msAh,msA )');
16769:   TPCMChannel', '( cMono, cStereo )');
16770:   TPCMSamplesPerSec', '( ss8000Hz, ss11025Hz, ss22050Hz, ss44100Hz, ss48000Hz )');
16771:   TPCMBitsPerSample', '( bs8Bit, bs16Bit )');
16772:   TPCMFormat', '( nonePCM, Mono8Bit8000Hz, Stereo8bit8000Hz, Mono16b' +
16773:     +'6bit8000Hz, Stereo16bit8000Hz, Mono8bit11025Hz, Stereo8bit11025Hz, Mono16b' +
16774:     +'it11025Hz, Stereo16bit11025Hz, Mono8bit22050Hz, Stereo8bit22050Hz, Mono16b' +
16775:     +'it22050Hz, Stereo16bit22050Hz, Mono8bit44100Hz, Stereo8bit44100Hz, Mono16b' +
16776:     +'it44100Hz, Stereo16bit44100Hz, Mono8bit48000Hz, Stereo8bit48000Hz, Mono16b' +
16777:     +'it48000Hz, Stereo16bit48000Hz )');
16778:   PWaveFormatEx', 'record wFormatTag : word; nChannels: word; nSamplesPerSec: DWORD; ' +
16779:     +'nAvgBytesPerSec: DWORD; nBlockAlign: Word; wBitsPerSample: Word; ecbSiz: Word; end');
16780:   tWaveFormatEx', 'PWaveFormatEx');
16781:   HMMIO', 'Integer');
16782:   TWaveDeviceFormats', 'set of TPCMFormat');
16783:   TWaveOutDeviceSupport', '( dsVolume, dsStereoVolume, dsPitch, ds' +
16784:     +'PlaybackRate, dsPosition, dsAsynchronous, dsDirectSound )');
16785:   CL.AddTypeS('TWaveOutDeviceSupports', 'set of TWaveOutDeviceSupport');
16786:   TWaveOutOption', '( woSetVolume, woSetPitch, woSetPlaybackRate )');
16787:   TWaveOutOptions', 'set of TWaveOutOption');
16788:   TStreamOwnership2', '( soReference, soOwned )');
16789:   TWaveStreamState', '( wssReady, wssReading, wssWriting, wssWritingEx )');
16790: // PRawWave', '^TRawWave // will not work');
16791:   TRawWave', 'record pData : TObject; dwSize : DWORD; end');
16792:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioError');
16793:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioSysError');
16794:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioInvalidOperation');
16795:   TWaveAudioEvent', 'Procedure ( Sender : TObject)');
16796:   TWaveAudioGetFormatEvent', 'Procedure ( Sender : TObject; var pW' +
16797:     +'aveFormat : PWaveFormatEx; var FreeIt : Boolean)');
16798:   TWaveAudioGetDataEvent', 'Function ( Sender : TObject; const Buf' +
16799:     +'fer : TObject; BufferSize : DWORD; var NumLoops : DWORD) : DWORD');
16800:   TWaveAudioGetDataPtrEvent', 'Function ( Sender : TObject; var Bu' +
16801:     +'ffer : TObject; var NumLoops : DWORD; var FreeIt : Boolean) : DWORD');
16802:   TWaveAudioDataReadyEvent', 'Procedure ( Sender : TObject; const ' +
16803:     +'Buffer : TObject; BufferSize : DWORD; var FreeIt : Boolean)');
16804:   TWaveAudioLevelEvent', 'Procedure ( Sender : TObject; Level : Integer)');
16805:   TWaveAudioFilterEvent', 'Procedure (Sender : TObject; const Buffer:TObject; BufferSize:DWORD)');
16806:   GetWaveAudioInfo(mmIO:HMMIO;var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16807:   CreateWaveAudio(mmIO: HMMIO; const pWaveFormat:PWaveFormatEx;var ckRIFF,ckData:TMMCKInfo):Bool;
16808:   CloseWaveAudio( mmIO : HMMIO; var ckRIFF, ckData : TMMCKInfo );
16809:   GetStreamWaveAudioInfo(Stream:TStream; var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16810:   CreateStreamWaveAudio(Stream : TStream;const pWaveFormat:PWaveFormatEx; var ckRIFF,ckData:TMMCKInfo):HMMIO;
16811:   OpenStreamWaveAudio( Stream : TStream ) : HMMIO';
16812:   CalcWaveBufferSize( const pWaveFormat : PWaveFormatEx; Duration : DWORD ) : DWORD');
16813:   GetAudioFormat( FormatTag : Word ) : String');
16814:   GetWaveAudioFormat( const pWaveFormat : PWaveFormatEx ) : String');
16815:   GetWaveAudioLength( const pWaveFormat : PWaveFormatEx; DataSize : DWORD ) : DWORD');
16816:   GetWaveAudioBitRate( const pWaveFormat : PWaveFormatEx ) : DWORD');
16817:   GetWaveAudioPeakLevel( const Data : TObject; DataSize:DWORD; const pWaveFormat:PWaveFormatEx) : Integer');
16818:   InvertWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx) : Boolean');
16819:   SilenceWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx) : Boolean');
16820:   ChangeWaveAudioVolume( const Data:TObject;DataSize:DWORD;const pWaveFormat:PWaveFormatEx;Percent:Int) :Bool;
16821:   MixWaveAudio( const RawWaves : TRawWave; Count : Integer; const pWaveFormat : PWaveFormatEx; Buffer : TObject; BufferSize : DWORD ) : Boolean');
16822:   ConvertWaveFormat( const srcFormat : PWaveFormatEx; srcData : TObject; srcDataSize : DWORD; const dstFormat : PWaveFormatEx; var dstData : TObject; var dstDataSize : DWORD ) : Boolean');
16823:   SetPCMFormat( const pWaveFormat : PWaveFormatEx; Channels : TPCMChannel; SamplesPerSec : TPCMSamplesPerSec; BitsPerSample : TPCMbitsPerSample)');
16824:   Procedure SetPCMFormatS( const pWaveFormat : PWaveFormatEx; PCMFormat : TPCMFormat)');
16825:   GetPCMFormat( const pWaveFormat : PWaveFormatEx ) : TPCMFormat');
16826:   GetWaveDataPositionOffset( const pWaveFormat : PWaveFormatEx; Position : DWORD ) : DWORD');
16827:   MS2str( Milliseconds : DWORD; Fmt : TMS2StrFormat ) : String');
16828:   WaitForSyncObject( SyncObject : THandle; Timeout : DWORD ) : DWORD');
16829: //mmioStreamProc( lpmmIOInfo : PMMIOInfo; uMsg, lParam1, lParam2 : DWORD ) : LRESULT');
16830: end;
16831;
16832: procedure SIRегистер_NamedPipes(CL: TPSPascalCompiler);
16833: begin
16834:   'DEFAULT_PIPE_BUFFER_SIZE','LongInt').SetInt( 4096 );
16835:   CL.AddConstantN('DEFAULT_PIPE_TIMEOUT','LongInt').SetInt( 5000 );
16836:   'PIPE_NAMING_SCHEME','String').SetString( '\\%s\pipe\%s' );
16837:   'WAIT_ERROR','LongWord').SetUInt( DWORD( $FFFFFF ) );
16838:   'WAIT_OBJECT_1','LongInt').SetInt( WAIT_OBJECT_0 + 1 );
16839:   'STATUS_SUCCESS','LongWord').SetUInt( $00000000 );
16840:   'STATUS_BUFFER_OVERFLOW','LongWord').SetUInt( $80000005 );
16841:   CL.AddTypeS('TPipeDirection', '( pdir_Duplex, pdir_ClientToServer, pdir_ServerToClient )');
16842:   CL.AddTypeS('TPipeType', '( ptyp_BytByte, ptyp_MsgByte, ptyp_MsgMsg )');
16843:   CL.AddTypeS('TOverlappedResult', '( ov_Failed, ov_Pending, ov_MoreData, ov_Complete )');
16844:   SIRегистер_TNamedPipe(CL);
16845:   SIRегистер_TServerPipe(CL);
16846:   SIRегистер_TClientPipe(CL);
16847:   CL.AddDelphiFunction('Function CalculateTimeout( aBasis : DWORD ) : DWORD');
16848:   Function HasOverlappedIoCompleted( const ov : OVERLAPPED ) : Boolean');
16849:   Function GetOverlappedPipeResult(aHandle:THandle;const ov:OVERLAPPED;var dwBytes:DWORD;bWait:Boolean) :
  OverlappedResult;

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16850: Function GetStreamAsText( stm : TStream ) : string');
16851: Procedure SetStreamAsText( const aTxt : string; stm : TStream );
16852: end;
16853;
16854: procedure SIRegister_DPUtils(CL: TPSPascalCompiler);
16855: begin
16856: // CL.AddTypeS('pRGBTripleArray', '^TRGBTripleArray // will not work');
16857: SIRegister_TThumbData(CL);
16858: 'PIC_BMP','LongInt').SetInt( 0 );
16859: 'PIC_JPG','LongInt').SetInt( 1 );
16860: 'THUMB_WIDTH','LongInt').SetInt( 60 );
16861: 'THUMB_HEIGHT','LongInt').SetInt( 60 );
16862: Function IsEqualFile(Filename:string; Size:Integer; LastWriteTime : TDateTime) : Boolean');
16863: Procedure GetFileInfo(Filename : string; var Size : Integer; var LastWriteTime : TDateTime)');
16864: Function ReadBitmap( Filehandle : Integer; Width, Height : Integer ) : TBitmap');
16865: Procedure WriteBitmap( Filehandle : Integer; bmp : TBitmap)');
16866: Function OpenPicture( fn : string; var tp : Integer ) : Integer');
16867: Function ConvertPicture( pi : Integer; tp : Integer ) : TBitmap');
16868: Function LoadPicture( fn : string; var w, h : Integer ) : TBitmap');
16869: Function TurnBitmap( bmp : TBitmap; ang : Integer ) : TBitmap');
16870: Function RotateBitmap( Bitmap : TBitmap; Direction : Integer ) : TBitmap');
16871: Function StretchBitmap( Canvas : TCanvas; re : TRect; bmp : TBitmap ) : TRect');
16872: Function ThumbBitmap( Bitmap : TBitmap; Width, Height : Integer ) : TBitmap');
16873: Procedure ClearFrame( Canvas : TCanvas; Rect : TRect; Width, Height : Integer ) );
16874: Procedure FindFiles( path, mask : string; items : TStringList );
16875: Function LetFileName( s : string ) : string');
16876: Function LetParentPath( path : string ) : string');
16877: Function AddBackSlash( path : string ) : string');
16878: Function CutBackSlash( path : string ) : string');
16879: end;
16880;
16881: procedure SIRegister_CommonTools(CL: TPSPascalCompiler);
16882: begin
16883: //BYTES','LongInt').SetInt( 1 );
16884: 'KBYTES','LongInt').SetInt( 1024 );
16885: 'DBG_ALIVE','LongWord').SetUInt( Integer ( $11BABEL1 ) );
16886: 'DBG_DESTROYING','LongWord').SetUInt( Integer ( $44FADE44 ) );
16887: 'DBG_GONE','LongWord').SetUInt( $99AC1D99 );
16888: 'SHELL_NS_MYCOMPUTER','String').SetString( '::{2D04FEO-3AEA-1069-A2D8-08002B30309D}' );
16889: SIRegister_MakeComServerMethodsPublic(CL);
16890: CL.AddTypeS('TSomeFileInfo', '( fi_DisplayType, fi_Application )');
16891: Function IsFlagSet( dwTestForFlag, dwFlagSet : DWORD ) : Boolean');
16892: Procedure TBSetFlag( const dwThisFlag : DWORD; var dwFlagSet : DWORD; aSet : Boolean );
16893: Function TBGetTempFolder : string');
16894: Function TBGetTempFile : string');
16895: Function TBGetModuleFilename : string');
16896: Function FormatModuleVersionInfo( const aFilename : string ) : string');
16897: Function GetVersionInfoString( const aFile, aEntry : string; aLang : WORD ) : string');
16898: Function TBGetFileSize( aFile : string; aMultipleOf : Integer ) : Integer');
16899: Function FormatAttribString( aAttr : Integer ) : string');
16900: Function GetSomeFileInfo( aFile : string; aWhatInfo : TSomeFileInfo ) : string');
16901: Function ShellRecycle( aWnd : HWnd; aFileOrFolder : string ) : Boolean');
16902: Function IsDebuggerPresent : BOOL );
16903: Function TBNotImplemented : HRESULT );
16904: end;
16905;
16906: procedure SIRegister_D2_VistaHelperU(CL: TPSPascalCompiler);
16907: begin
16908: //CL.AddTypeS('OSVERSIONINFOEXA', '_OSVERSIONINFOEXA');
16909: //CL.AddTypeS('TOSVersionInfoExA', '_OSVERSIONINFOEXA');
16910: CL.AddTypeS('TOSVersionInfoEx', 'TOSVersionInfo');
16911: CL.AddTypeS('TDrivesProperty', 'array[1..26] of boolean');
16912: //TDrivesProperty = array['A'..'Z'] of boolean;
16913: Function TBSetSystemTime( DateTime : TDateTime; DOW : word ) : boolean');
16914: Function IsElevated : Boolean );
16915: Procedure CoCreateInstanceAsAdmin(aHWnd:HWND;const aClassID:GUID;const aIID:GUID;out aObj:TObject);
16916: CL.AddTypeS('TPasswordUsage', '( pu_None, pu_Default, pu_Defined )');
16917: Function TrimNetResource( UNC : string ) : string');
16918: Procedure GetFreeDrives( var FreeDrives : TDrivesProperty );
16919: Procedure GetMappedDrives( var MappedDrives : TDrivesProperty );
16920: Function MapDrive(UNCPath:string; Drive : char; PasswordUsage : TPasswordUsage; Password : string;
UserUsage : TPasswordUsage; User : string; Comment : string ) : boolean');
16921: Function UnmapDrive( Drive : char; Force : boolean ) : boolean');
16922: Function TBIsWindowsVista : Boolean );
16923: Procedure SetVistaFonts( const AForm : TForm );
16924: Procedure SetVistaContentFonts( const AFont : TFont );
16925: Function GetProductType( var sType : String ) : Boolean );
16926: Function lstrcmp( lpString1, lpString2 : PChar ) : Integer );
16927: Function lstrcmpi( lpString1, lpString2 : PChar ) : Integer );
16928: Function lstrcpyn( lpString1, lpString2 : PChar; iMaxLength : Integer ) : PChar );
16929: Function lstrcpy( lpString1, lpString2 : PChar ) : PChar );
16930: Function lstrcat( lpString1, lpString2 : PChar ) : PChar );
16931: Function lstrlen( lpString : PChar ) : Integer );
16932: Function GetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD; var ReturnLength : DWORD ) : BOOL );
16933: Function SetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD ) : BOOL );
16934: end;
16935:

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16936: procedure SIRegister_dwsXPlatform(CL: TPSPascalCompiler);
16937: begin
16938:   'cLineTerminator','Char').SetString( #10 );
16939:   'clineTerminators','String').SetString( #13#10 );
16940:   'INVALID_HANDLE_VALUE','LongInt').SetInt( DWORD ( - 1 ) );
16941:   SIRegister_TFixedCriticalSection(CL);
16942:   SIRegister_TMultiReadWrite(CL);
16943:   CL.AddDelphiFunction('Procedure SetDecimalSeparator( c : Char)');
16944:   Function GetDecimalSeparator : Char');
16945:   TCollectFileProgressEvent', 'Procedure ( const directory : String; var skipScan : Boolean)');
16946:   Procedure CollectFiles(const directory,fileMask:UnicodeString; list:TStrings;
reurseSubdirectories:Boolean; onProgress : TCollectFileProgressEvent)');
16947:   CL.AddTypeS('NativeInt', 'Integer');
16948:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16949:   CL.AddTypeS('NativeUInt', 'Cardinal');
16950:   //CL.AddTypeS('PNativeUInt', '^NativeUInt // will not work');
16951:   //CL.AddTypeS('TBytes', 'array of Byte');
16952:   CL.AddTypeS('RawByteString', 'UnicodeString');
16953:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16954:   //CL.AddTypeS('PUInt64', '^UInt64 // will not work');
16955:   SIRegister_TPath(CL);
16956:   SIRegister_TFile(CL);
16957:   SIRegister_TdwsThread(CL);
16958:   Function GetSystemMilliseconds : Int64');
16959:   Function UTCDateTime : TDateTime');
16960:   Function UnicodeFormat(const fmt:UnicodeString; const args : array of const): UnicodeString');
16961:   Function UnicodeCompareStr( const S1, S2 : UnicodeString) : Integer');
16962:   Function dwsAnsiCompareText( const S1, S2 : UnicodeString) : Integer');
16963:   Function dwsAnsiCompareStr( const S1, S2 : UnicodeString) : Integer');
16964:   Function UnicodeComparePChars( p1 : PChar; n1 : Integer; p2 : PChar; n2 : Integer) : Integer');
16965:   Function UnicodeComparePChars1( p1, p2 : PChar; n : Integer) : Integer');
16966:   Function UnicodeLowerCase( const s : UnicodeString) : UnicodeString');
16967:   Function UnicodeUpperCase( const s : UnicodeString) : UnicodeString');
16968:   Function ASCIICompareText( const s1, s2 : UnicodeString) : Integer');
16969:   Function ASCIISameText( const s1, s2 : UnicodeString) : Boolean');
16970:   Function InterlockedIncrement( var val : Integer) : Integer');
16971:   Function InterlockedDecrement( var val : Integer) : Integer');
16972:   Procedure FastInterlockedIncrement( var val : Integer)');
16973:   Procedure FastInterlockedDecrement( var val : Integer)');
16974:   Function InterlockedExchangePointer( var target : __Pointer; val : __Pointer) : __Pointer');
16975:   Procedure SetThreadName( const threadName : Char; threadID : Cardinal)');
16976:   Procedure dwsOutputDebugString( const msg : UnicodeString)');
16977:   Procedure WriteToOSEventLog(const logName,logCaption,logDetails:UnicodeString;const logRawData:Str);
16978:   Function TryTextToFloat(const s:PChar;var value:Extended;const formatSettings:TFormatSettings):Bool;
16979:   Procedure VarCopy( out dest : Variant; const src : Variant)');
16980:   Function VarToUnicodeStr( const v : Variant) : UnicodeString');
16981:   Function LoadTextFromBuffer( const buf : TBytes) : UnicodeString');
16982:   Function LoadTextFromStream( aStream : TStream) : UnicodeString');
16983:   Function LoadTextFromFile( const fileName : UnicodeString) : UnicodeString');
16984:   Procedure SaveTextToUTF8File( const fileName, text : UnicodeString)');
16985:   Function OpenFileForSequentialReadOnly( const fileName : UnicodeString) : THandle');
16986:   Function OpenFileForSequentialWriteOnly( const fileName : UnicodeString) : THandle');
16987:   Procedure CloseFileHandle( hFile : THandle)');
16988:   Function FileCopy(const existing, new : UnicodeString; failIfExists : Boolean):Boolean';
16989:   Function FileMove( const existing, new : UnicodeString) : Boolean');
16990:   Function dwsFileDelete( const fileName : String) : Boolean');
16991:   Function FileRename( const oldName, newName : String) : Boolean');
16992:   Function dwsFileSize( const name : String) : Int64');
16993:   Function dwsFileDateTime( const name : String) : TDateTime');
16994:   Function DirectSet8087CW( newValue : Word) : Word');
16995:   Function DirectSetMXCSR( newValue : Word) : Word');
16996:   Function TtoObject( const T: byte) : TObject');
16997:   Function TtoPointer( const T: byte) : __Pointer');
16998:   Procedure GetMemForT(var T: byte; Size : integer)');
16999:   Function FindDelimiter( const Delimiters, S : string; StartIdx : Integer) : Integer');
17000: end;
17001:
17002: procedure SIRegister_AdSocket(CL: TPSPascalCompiler);
17003: begin
17004:   'IPstrSize','LongInt').SetInt( 15 );
17005:   'CM_APDSOCKETMESSAGE','LongWord').SetUInt( WM_USER + $0711 );
17006:   'CM_APDSOCKETQUIT','LongWord').SetUInt( WM_USER + $0712 );
17007:   'ADWSBASE','LongInt').SetInt( 9000 );
17008:   CL.AddTypeS('TCMADPSocketMessage', 'record Msg : Cardinal; Socket : TSocket; '
17009:     + 'SelectEvent : Word; SelectError : Word; Result : Longint; end');
17010:   SIRegister_EApdSocketException(CL);
17011:   'TWsMode', '( wsClient, wsServer )');
17012:   'TWsNotifyEvent', 'Procedure ( Sender : TObject; Socket : TSocket)');
17013:   'TWsSocketErrorEvent', 'Procedure ( Sender : TObject; Socket : TSocket; ErrorCode : Integer)');
17014:   SIRegister_TApdSocket(CL);
17015: end;
17016:
17017: procedure SIRegister_AdPort(CL: TPSPascalCompiler);
17018: begin
17019:   SIRegister_TApdCustomComPort(CL);
17020:   SIRegister_TApdComPort(CL);
17021:   Function ComName( const ComNumber : Word) : shortString');
17022:   Function SearchComPort( const C : TComponent) : TApdCustomComPort');
17023: end;

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17024:
17025: procedure SIRегистер_PathFunc(CL: TPSPascalCompiler);
17026: begin
17027:   Function inAddBackslash( const S : String ) : String';
17028:   Function PathChangeExt( const Filename, Extension : String ) : String';
17029:   Function PathCharCompare( const S1, S2 : PChar ) : Boolean';
17030:   Function PathCharIsSlash( const C : Char ) : Boolean';
17031:   Function PathCharIsTrailByte( const S : String; const Index : Integer ) : Boolean';
17032:   Function PathCharLength( const S : String; const Index : Integer ) : Integer';
17033:   Function inPathCombine( const Dir, Filename : String ) : String';
17034:   Function PathCompare( const S1, S2 : String ) : Integer';
17035:   Function PathDrivePartLength( const Filename : String ) : Integer';
17036:   Function PathDrivePartLengthEx(const Filename:String;const IncludeSignificantSlash:Bool):Int;
17037:   Function inPathExpand( const Filename : String ) : String';
17038:   Function PathExtensionPos( const Filename : String ) : Integer';
17039:   Function PathExtractDir( const Filename : String ) : String';
17040:   Function PathExtractDrive( const Filename : String ) : String';
17041:   Function PathExtractExt( const Filename : String ) : String';
17042:   Function PathExtractName( const Filename : String ) : String';
17043:   Function PathExtractPath( const Filename : String ) : String';
17044:   Function PathIsRooted( const Filename : String ) : Boolean';
17045:   Function PathLastChar( const S : String ) : PChar';
17046:   Function PathLastDelimiter( const Delimiters, S : string ) : Integer';
17047:   Function PathLowercase( const S : String ) : String';
17048:   Function PathNormalizeSlashes( const S : String ) : String';
17049:   Function PathPathPartLength(const Filename:String;const IncludeSlashesAfterPath:Bool):Int;
17050:   Function PathPos( Ch : Char; const S : String ) : Integer';
17051:   Function PathStartsWith( const S, AStartsWith : String ) : Boolean';
17052:   Function PathStrNextChar( const S : PChar ) : PChar';
17053:   Function PathStrPrevChar( const Start, Current : PChar ) : PChar';
17054:   Function PathStrScan( const S : PChar; const C : Char ) : PChar';
17055:   Function inRemoveBackslash( const S : String ) : String';
17056:   Function RemoveBackslashUnlessRoot( const S : String ) : String';
17057: Procedure PathFuncRunTests( const AlsoTestJapaneseDBCS : Boolean );
17058: end;
17059:
17060:
17061: procedure SIRегистер_CmnFunc2(CL: TPSPascalCompiler);
17062: begin
17063:   NEWREGSTR_PATH_SETUP , 'String').SetString( 'Software\Microsoft\Windows\CurrentVersion');
17064:   NEWREGSTR_PATH_EXPLORER , 'String').SetString( NEWREGSTR_PATH_SETUP + '\Explorer');
17065:   NEWREGSTR_PATH_SPECIAL_FOLDERS , 'String').SetString(NEWREGSTR_PATH_EXPLORER + '\Shell Folders');
17066:   NEWREGSTR_PATH_UNINSTALL , 'String').SetString( NEWREGSTR_PATH_SETUP + '\Uninstall');
17067:   NEWREGSTR_VAL_UNINSTALLER_DISPLAYNAME , 'String').SetString( 'DisplayName');
17068:   NEWREGSTR_VAL_UNINSTALLER_COMMANDLINE , 'String').SetString( 'UninstallString');
17069:   KEY_WOW64_64KEY , 'LongWord').SetUInt( $0100);
17070:   //CL.AddTypes('PLeadByteSet', '^TLeadByteSet // will not work');
17071:   CL.AddTypeS('TLeadByteSet', 'set of Char');
17072:   SIRегистер_TOneShotTimer(CL);
17073:   CL.AddTypeS('TRegView', '( rvDefault, rv32Bit, rv64Bit )');
17074:   'RegViews64Bit', 'LongInt').Value.ts32 := ord(rv64Bit);
17075:   Function NewFileExists( const Name : String ) : Boolean';
17076:   Function inDirExists( const Name : String ) : Boolean';
17077:   Function FileOrDirExists( const Name : String ) : Boolean';
17078:   Function IsDirectoryAndNotReparsePoint( const Name : String ) : Boolean';
17079:   Function GetIniString( const Section, Key : String; Default:String; const Filename:String): String';
17080:   Function GetIniInt(const Section,Key:String;const Default,Min,Max:Longint;const Filenam:String):Longint;
17081:   Function GetIniBool( const Section,Key:String; const Default:Boolean;const Filename:String): Boolean';
17082:   Function IniKeyExists( const Section, Key, Filename : String ) : Boolean';
17083:   Function IsInSectionEmpty( const Section, Filename : String ) : Boolean';
17084:   Function SetIniString( const Section, Key, Value, Filename : String ) : Boolean';
17085:   Function SetIniInt(const Section,Key:String;const Value: Longint;const Filename: String):Boolean';
17086:   Function SetIniBool(const Section,Key:String;const Value: Boolean;const Filename: String):Boolean';
17087: Procedure DeleteIniEntry( const Section, Key, Filename : String );
17088: Procedure DeleteIniSection( const Section, Filename : String );
17089: Function GetEnv( const EnvVar : String ) : String';
17090: Function GetCmdTail : String';
17091: Function GetCmdTailEx( StartIndex : Integer ) : String';
17092: Function NewParamCount : Integer';
17093: Function NewParamStr( Index : Integer ) : string';
17094: Function AddQuotes( const S : String ) : String';
17095: Function RemoveQuotes( const S : String ) : String';
17096: Function inGetShortName( const LongName : String ) : String';
17097: Function inGetWinDir : String';
17098: Function inGetSystemDir : String';
17099: Function GetSysWow64Dir : String';
17100: Function GetSysNativeDir( const IsWin64 : Boolean ) : String';
17101: Function inGetTempDir : String';
17102: Function StringChange( var S : String; const FromStr,ToStr : String ) : Integer';
17103: Function StringChangeEx(var S:String;const FromStr,ToStr:String;const SupportDBCS:Bool):Int;
17104: Function AdjustLength( var S : String; const Res : Cardinal ) : Boolean';
17105: Function UsingWinNT : Boolean';
17106: Function ConvertConstPercentStr( var S : String ) : Boolean';
17107: Function ConvertPercentStr( var S : String ) : Boolean';
17108: Function ConstPos( const Ch : Char; const S : String ) : Integer';
17109: Function SkipPastConst( const S : String; const Start : Integer ) : Integer';
17110: Function RegQueryStringValue( H : HKEY; Name : PChar; var ResultStr : String ) : Boolean';
17111: Function RegQueryMultiStringValue( H : HKEY; Name : PChar; var ResultStr : String ):Boolean;
17112: Function RegValueExists( H : HKEY; Name : PChar ) : Boolean';

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17113: Function RegCreateKeyExView( const RegView:TRegView; hKey:HKEY; lpSubKey:PChar; Reserved:DWORD; lpClass:PChar;
17114: dwOptions:DWORD; samDesired:REGSAM; lpSecurityAttributes:TObject; var
17115: phkResult:HKEY; lpdwDisposition:DWORD ):Longint;
17116: Function RegOpenKeyExView( const
17117: RegView:TRegView; hKey:HKEY; lpSubKey:PChar; ulOptions:DWORD; samDesired:REGSAM; var phkResult:HKEY ):Longint;
17118: Function RegDeleteKeyView( const RegView : TRegView; const Key : HKEY; const Name : PChar ) : Longint;
17119: Function RegDeleteKeyIncludingSubkeys( const RegView:TRegView; const Key:HKEY;const Name:PChar ):Longint;
17120: Function GetShellFolderPath( const FolderID : Integer ) : String );
17121: Function IsAdminLoggedOn : Boolean );
17122: Function IsPowerUserLoggedOn : Boolean );
17123: Function IsMultiByteString( const S : AnsiString ) : Boolean );
17124: Function FontExists( const FaceName : String ) : Boolean );
17125: //Procedure FreeAndNil( var Obj );
17126: Function SafeLoadLibrary( const Filename : String; ErrorMode : UINT ) : HMODULE );
17127: Function RemoveAccelChar( const S : String ) : String );
17128: Function GetTextWidth( const DC : HDC; S : String; const Prefix:Boolean ):Integer );
17129: Function AddPeriod( const S : String ) : String );
17130: Function GetPreferredUIFont : String );
17131: Function IsWildcard( const Pattern : String ) : Boolean );
17132: Function WildcardMatch( const Text, Pattern : PChar ) : Boolean );
17133: Function IntMax( const A, B : Integer ) : Integer );
17134: Function Win32ErrorString( ErrorCode : Integer ) : String );
17135: Procedure GetLeadBytes( var ALeadBytes : TLeadByteSet );
17136: Function inCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean );
17137: Function DeleteDirTree( const Dir : String ) : Boolean );
17138: Function SetNTFSCompression( const FileOrDir: String; Compress : Boolean ) : Boolean );
17139: Procedure AddToWindowMessageFilterEx( const Wnd : HWND; const Msg : UINT );
17140: // CL.AddTypes('TSysCharSet', 'set of AnsiChar');
17141: Function inCharInSet( C : Char; const CharSet : TSysCharSet ) : Boolean );
17142: Function ShutdownBlockReasonCreate( Wnd : HWND; const Reason : String ) : Boolean );
17143: Function ShutdownBlockReasonDestroy( Wnd : HWND ) : Boolean );
17144: Function TryStrToBoolean( const S : String; var BoolResult : Boolean ) : Boolean );
17145: Procedure WaitMessageWithTimeout( const Milliseconds : DWORD );
17146: Function MoveFileReplace( const ExistingFileName, NewFileName : String ) : Boolean );
17147: Procedure TryEnableAutoCompleteFileSystem( Wnd : HWND );
17148: end;
17149:
17150: procedure SIRegister_CmnFunc(CL: TPPascalCompiler);
17151: begin
17152:   SIRegister_TWindowDisabler(CL);
17153:   TMsgBoxType', '( mbInformation, mbConfirmation, mbError, mbCriticalError )');
17154:   TMsgBoxCallbackFunc', procedure(const Flags:LongInt;const After:Bool;const Param:LongInt);
17155:   Procedure UpdateHorizontalExtent( const ListBox : TCustomListBox );
17156:   Function MinimizePathName( const Filename:String; const Font:TFont;MaxLen:Integer ):String;
17157:   Function AppMessageBox( const Text, Caption : PChar; Flags : Longint ) : Integer );
17158:   Function MsgBoxP( const Text,Caption: PChar; const Typ: TMMsgBoxType;const Buttons:Cardinal):Int;
17159:   Function inMsgBox( const Text,Caption:String; const Typ: TMMsgBoxType;const Buttons:Cardinal):Int;
17160:   Function MsgBoxFmt( const Text:String;const Args:array of const;const Caption:String;const
17161:   Typ:TMMsgBoxType;const Buttons:Cardinal):Integer );
17162:   Procedure ReactivateTopWindow();
17163:   Procedure SetMessageBoxCaption( const Typ : TMMsgBoxType; const NewCaption : PChar );
17164:   Procedure SetMessageBoxRightToLeft( const ARightToLeft : Boolean );
17165:   Procedure SetMessageBoxCallbackFunc( const AFunc : TMMsgBoxCallbackFunc; const AParam : LongInt );
17166: end;
17167: procedure SIRegister_ImageGrabber(CL: TPPascalCompiler);
17168: begin
17169:   SIRegister_TImageGrabber(CL);
17170:   SIRegister_TCaptureDrivers(CL);
17171:   SIRegister_TCaptureDriver(CL);
17172: end;
17173:
17174: procedure SIRegister_SecurityFunc(CL: TPPascalCompiler);
17175: begin
17176:   Function GrantPermissionOnFile( const DisableFsRedir:Boolean; Filename:String;const
17177:   Entries:TGrantPermissionEntry; const EntryCount:Integer ):Boolean );
17178:   Function GrantPermissionOnKey( const RegView:TRegView;const RootKey:HKEY;const Subkey:String;const
17179:   Entries: TGrantPermissionEntry; const EntryCount:Integer ): Boolean );
17180: procedure SIRegister_RedirFunc(CL: TPPascalCompiler);
17181: begin
17182:   CL.AddTypeS('TPreviousFsRedirectionState', record DidDisable : Boolean; OldValue : __Pointer; end );
17183:   CL.AddDelphiFunction('Function AreFsRedirectionFunctionsAvailable : Boolean');
17184:   Function DisableFsRedirectionIf( const Disable:Boolean;var PreviousState:TPreviousFsRedirectionState ):Bool;
17185:   Procedure RestoreFsRedirection( const PreviousState : TPreviousFsRedirectionState );
17186:   Function CreateDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL );
17187:   Function CreateProcessRedir( const DisableFsRedir:Boolean;const lpApplicationName:PChar;const
17188:   lpCommandLine:PChar; const lpProcessAttributes, lpThreadAttributes:PSecurityAttributes;const
17189:   bInheritHandles:BOOL; const dwCreationFlags:DWORD;const lpEnvironment:Pointer; const
17190:   lpCurrentDirectory:PChar; const lpStartupInfo : TStartupInfo; var
17191:   lpProcessInformation:TProcessInformation):BOOL;
17192:   Function CopyFileRedir( const DisableFsRedir:Boolean; const ExistingFilename, NewFilename : String; const
17193:   FailIfExists : BOOL ) : BOOL );
17194:   Function DeleteFileRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL );
17195:   Function DirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean );

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17191: Function FileOrDirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17192: Function FindFirstFileRedir( const DisableFsRedir : Boolean; const Filename : String; var FindData : TWin32FindData ) : THandle';
17193: Function GetfileAttributesRedir( const DisableFsRedir : Boolean; const Filename : String ) : DWORD';
17194: Function GetShortNameRedir( const DisableFsRedir : Boolean; const Filename : String ) : String';
17195: Function GetVersionNumbersRedir( const DisableFsRedir: Boolean; const Filename: String; var VersionNumbers : TFileVersionNumbers ) : Boolean';
17196: Function IsDirectoryAndNotReparsePointRedir( const DisableFsRedir: Boolean; const Name: String ) : Bool;
17197: Function MoveFileRedir( const DisableFsRedir: Boolean; const ExistingFilename, NewFilename: String ) : Boolean;
17198: Function MoveFileExRedir( const DisableFsRedir: Boolean; const ExistingFile, NewFilename: String; const Flags: DWORD ) : Boolean;
17199: Function NewfileExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17200: Function RemoveDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17201: Function SetfileAttributesRedir( const DisableFsRedir: Boolean; const Filename: String; const Attrib: DWORD ) : Boolean;
17202: Function SetNTFSCompressionRedir( const DisableFsRedir: Boolean; const FileOrDir: String; Compress: Boolean );
17203: SIRegister_TFileRedir(CL);
17204: SIRegister_TTextfileReaderRedir(CL);
17205: SIRegister_TTextfileWriterRedir(CL);
17206: end;
17207:
17208: procedure SIRegister_Int64Em(CL: TPSPascalCompiler);
17209: begin
17210:   //CL.AddTypeS('LongWord', 'Cardinal');
17211:   CL.AddTypeS('Integer64', 'record Lo : LongWord; Hi : LongWord; end');
17212:   Function Compare64( const N1, N2 : Integer64 ) : Integer';
17213:   Procedure Dec64( var X : Integer64; N : LongWord );
17214:   Procedure Dec6464( var X : Integer64; const N : Integer64 );
17215:   Function Div64( var X : Integer64; const Divisor : LongWord ) : LongWord';
17216:   Function Inc64( var X : Integer64; N : LongWord ) : Boolean';
17217:   Function Inc6464( var X : Integer64; const N : Integer64 ) : Boolean';
17218:   Function Integer64ToStr( X : Integer64 ) : String';
17219:   Function Mod64( const X : Integer64; const Divisor : LongWord ) : LongWord';
17220:   Function Mul64( var X : Integer64; N : LongWord ) : Boolean';
17221:   Procedure Multiply32x32to64( N1, N2 : LongWord; var X : Integer64 );
17222:   Procedure Shr64( var X : Integer64; Count : LongWord );
17223:   Function StrToInteger64( const S : String; var X : Integer64 ) : Boolean';
17224: end;
17225:
17226: procedure SIRegister_InstFunc(CL: TPSPascalCompiler);
17227: begin
17228:   //CL.AddTypeS('PSimpleStringListArray', '^TSimpleStringListArray // will not work');
17229:   SIRegister_TSsimpleStringList(CL);
17230:   CL.AddTypeS('TExecWait', '( ewNoWait, ewWaitUntilTerminated, ewWaitUntilIdle )');
17231:   CL.AddTypeS('TDetermineDefaultLanguageResult', '( ddNoMatch, ddMatch, ddMatchLangParameter )');
17232:   CL.AddTypeS('TMD5Digest', 'array[0..15] of Byte');
17233:   CL.AddTypeS('TSHA1Digest', 'array[0..19] of Byte');
17234:   // TMD5Digest = array[0..15] of Byte;
17235:   // TSHA1Digest = array[0..19] of Byte;
17236:   Function CheckForMutexes( Mutexes : String ) : Boolean';
17237:   Function CreateTempDir : String';
17238:   Function DecrementSharedCount( const RegView : TRegView; const Filename : String ) : Boolean';
17239:   Procedure DelayDeleteFile( const DisableFsRedir : Boolean; const Filename : String; const MaxTries, FirstRetryDelayMS, SubsequentRetryDelayMS : Integer );
17240:   //Function DelTree( const DisableFsRedir : Boolean; const Path : String; const IsDir, DeleteFiles, DeleteSubdirsAlso, BreakOnError : Boolean; const DeleteDirProc : TDeleteDirProc; const DeleteFileProc : TDeleteFileProc; const Param : Pointer ) : Boolean';
17241:   //Function DetermineDefaultLanguage( const GetLanguageEntryProc : TGetLanguageEntryProc; const Method : TSetupLanguageDetectionMethod; const LangParameter : String; var ResultIndex : Integer ) : TDetermineDefaultLanguageResult';
17242:   //Procedure EnumFileReplaceOperationsFilenames(const EnumFunc:TEnumFROfilenamesProc;Param:Pointer);
17243:   Function GenerateNonRandomUniqueFilename( Path : String; var Filename : String ) : Boolean';
17244:   Function GenerateUniqueName( const DisableFsRedir: Boolean; Path: String; const Extension: String ) : String;
17245:   Function GetComputerNameString : String';
17246:   Function GetfileDateTime( const DisableFsRedir: Boolean; const Filename: String; var DateTime: TFileTime ) : Boolean;
17247:   Function GetMD5OfFile( const DisableFsRedir : Boolean; const Filename : String ) : TMD5Digest';
17248:   Function GetMD5OfAnsiString( const S : AnsiString ) : TMD5Digest';
17249:   // Function GetMD5OfUnicodeString( const S : UnicodeString ) : TMD5Digest';
17250:   Function GetSHA1OfFile( const DisableFsRedir: Boolean; const Filename: String ) : TSHA1Digest';
17251:   Function GetSHA1OfAnsiString( const S : AnsiString ) : TSHA1Digest';
17252:   // Function GetSHA1OfUnicodeString( const S : UnicodeString ) : TSHA1Digest';
17253:   Function GetRegRootKeyName( const RootKey : HKEY ) : String';
17254:   Function GetSpaceOnDisk( const DisableFsRedir: Boolean; const DriveRoot: String; var FreeBytes, TotBytes: Int64 ) : Boolean;
17255:   Function GetSpaceOnNearestMountPoint( const DisableFsRedir: Boolean; const StartDir: String; var FreeBytes, TotalBytes: Int64 ) : Boolean;
17256:   Function GetUserNamesString : String';
17257:   Procedure IncrementSharedCount( const RegView: TRegView; const Filename: String; const AlreadyExisted: Boolean );
17258:   //Function InstExec( const DisableFsRedir : Boolean; const Filename, Params : String; WorkingDir : String; const Wait:TExecWait; const ShowCmd: Integer; const ProcessMessagesProc: TProcedure; var ResultCode: Integer ) : Boolean;
17259:   // Function InstShellExec( const Verb, Filename, Params : String; WorkingDir : String; const Wait : TExecWait; const ShowCmd: Integer; const ProcessMessagesProc: TProcedure; var ResultCode: Integer ) : Boolean;
17260:   Procedure InternalError( const Id : String );
17261:   Procedure InternalErrorFmt( const S : String; const Args : array of const );
17262:   Function IsDirEmpty( const DisableFsRedir : Boolean; const Dir : String ) : Boolean';
17263:   Function IsProtectedSystemFile( const DisableFsRedir: Boolean; const Filename: String ) : Boolean';
17264:   Function MakePendingFileRenameOperationsChecksum : TMD5Digest';
17265:   Function ModifyPifFile( const Filename : String; const CloseOnExit : Boolean ) : Boolean';
17266:   Procedure RaiseFunctionFailedError( const FunctionName : String );

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17267: Procedure RaiseOleError( const FunctionName : String; const ResultCode : HRESULT)' );
17268: Procedure RefreshEnvironment');
17269: Function ReplaceSystemDirWithSysWow64( const Path : String ) : String');
17270: Function ReplaceSystemDirWithSysNative( Path : String; const IsWin64 : Boolean ) : String');
17271: Procedure UnregisterFont( const FontName, FontFilename : String)' );
17272: Function RestartComputer( Boolean');
17273: Procedure RestartReplace( const DisableFsRedir : Boolean; TempFile, DestFile : String)' );
17274: Procedure SplitNewParamStr( const Index : Integer; var AName, AValue : String)' );
17275: Procedure Win32ErrorMsg( const FunctionName : String)' );
17276: Procedure Win32ErrorMsgEx( const FunctionName : String; const ErrorCode : DWORD)' );
17277: Function inForceDirectories(const DisableFsRedir:Boolean; Dir : String) : Boolean');
17278: //from Func2
17279: //Function inCreateShellLink( const Filename, Description, ShortcutTo, Parameters, WorkingDir : String,
17280: //Iconfilename : String; const IconIndex, ShowCmd : Integer; const HotKey : Word; FolderShortcut : Boolean;
17281: //+'const AppUserModelID:String;const ExcludeFromShowInNewInstall,PreventPinning:Bool):String');
17282: Procedure RegisterTypeLibrary( const Filename : String)' );
17283: //Procedure UnregisterTypeLibrary( const Filename : String)' );
17284: function getVersionInfoEx3: TOSVersionInfoEx);
17285: Function GetVersionEx3(out verinfo: TOSVersionInfoEx): boolean;');
17286: procedure InitOle;');
17287: Function ExpandConst( const S : String ) : String');
17288: Function ExpandConstEx( const S : String; const CustomConsts : array of String ) : String');
17289: Function ExpandConstEx2(const S:String;const CustConsts:array of Str;const DoExpandIndividualConst:Bool):Str;
17290: Function ExpandConstIfPrefixed( const S : String ) : String');
17291: Procedure LogWindowsVersion');
17292: Function EvalCheck( const Expression : String ) : Boolean');
17293: end;
17294:
17295: procedure SIRegister_unitResourceDetails(CL: TPPascalCompiler);
17296: begin
17297:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TResourceDetails');
17298:   //CL.AddTypes('TResourceDetailsClass', 'class of TResourceDetails');
17299:   SIRegister_TResourceModule(CL);
17300:   SIRegister_TResourceDetails(CL);
17301:   SIRegister_TAnsiResourceDetails(CL);
17302:   SIRegister_TUnicodeResourceDetails(CL);
17303:   Procedure RegisterResourceDetails( resourceClass : TResourceDetailsClass );
17304:   Procedure UnRegisterResourceDetails( resourceClass : TResourceDetailsClass );
17305:   Function ResourceWideCharToStr( var wstr : PWideChar; codePage : Integer ) : string );
17306:   Procedure ResourceStrToWideChar( const s : string; var p : PWideChar; codePage : Integer );
17307:   Function ResourceNameToInt( const s : string ) : Integer );
17308:   Function CompareDetails( p1, p2 : TObject(Pointer) ) : Integer );
17309: end;
17310:
17311:
17312: procedure SIRegister_TSsimpleComPort(CL: TPPascalCompiler);
17313: begin
17314:   //with RegClassS(CL,'TObject', 'TSimpleComPort') do
17315:   with CL.AddClassN(CL.FindClass('TObject'), 'TSimpleComPort') do begin
17316:     RegisterMethod('Constructor Create');
17317:     RegisterMethod('Procedure Free');
17318:     RegisterMethod('Procedure Open( PortNumber : Integer; const Parameters : String)');
17319:     RegisterMethod('Procedure WriteString( const S : String)');
17320:     RegisterMethod('Procedure ReadString( var S : String)');
17321:   end;
17322:   Ex:= SimpleComPort:= TSimpleComPort.Create;
17323:   SimpleComPort.Open(1, 'baud=115200 parity=N data=8 stop=1');
17324:   SimpleComPort.WriteString(AsciiChar);
17325: end;
17326:
17327:
17328: procedure SIRegister_Console(CL: TPPascalCompiler);
17329: begin
17330:   CL.AddConstantN('White','LongInt').SetInt( 15 );
17331:   // CL.AddConstantN('Blink','LongInt').SetInt( 128 );
17332:   ('conBW40','LongInt').SetInt( 0 );
17333:   ('conCO40','LongInt').SetInt( 1 );
17334:   ('conBW80','LongInt').SetInt( 2 );
17335:   ('conCO80','LongInt').SetInt( 3 );
17336:   ('conMono','LongInt').SetInt( 7 );
17337:   CL.AddConstantN('conFont8x8','LongInt').SetInt( 256 );
17338:   //CL.AddConstantN('C40','','').SetString( CO40 );
17339:   //CL.AddConstantN('C80','','').SetString( CO80 );
17340:   Function conReadKey : Char );
17341:   Function conKeyPressed : Boolean );
17342:   Procedure conGotoXY( X, Y : Smallint );
17343:   Function conWhereX : Integer );
17344:   Function conWhereY : Integer );
17345:   Procedure conTextColor( Color : Byte );
17346:   Function conTextColor1 : Byte );
17347:   Procedure conTextBackground( Color : Byte );
17348:   Function conTextBackground1 : Byte );
17349:   Procedure conTextMode( Mode : Word );
17350:   Procedure conLowVideo );
17351:   Procedure conHighVideo );
17352:   Procedure conNormVideo );
17353:   Procedure conClrScr );
17354:   Procedure conClrEol );

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17355: Procedure conInsLine');
17356: Procedure conDelLine');
17357: Procedure conWindow( Left, Top, Right, Bottom : Integer)');
17358: Function conScreenWidth : Smallint');
17359: Function conScreenHeight : Smallint');
17360: Function conBufferWidth : Smallint');
17361: Function conBufferHeight : Smallint');
17362: procedure InitScreenMode;');
17363: end;
17364:
17365: (*-----*)
17366: procedure SIRегистер_тестutils(CL: TPSPascalCompiler);
17367: begin
17368:   SIRегистер_TNoRefCountObject(CL);
17369:   Procedure FreeObjects( List : TFPList)');
17370:   Procedure GetMethodList( AObject : TObject; AList : TStrings);');
17371:   Procedure GetMethodList1( AClass : TClass; AList : TStrings);');
17372: end;
17373:
17374: procedure SIRегистер_ToolsUnit(CL: TPSPascalCompiler);
17375: begin
17376:   'MaxDataSet','LongInt').SetInt( 35);
17377:   //CL.AddTypeS('TDBConnectorClass', 'class of TDBConnector');
17378:   SIRегистер_TDBConnector(CL);
17379:   SIRегистер_TDBBasicsTestSetup(CL);
17380:   SIRегистер_TTestDataLink(CL);
17381:   'testValuesCount','LongInt').SetInt( 25);
17382:   Procedure InitialiseDBConnector');
17383:   Procedure FreeDBConnector');
17384:   Function DateTimeToString( d : tdatetime) : string');
17385:   Function StringToDate( d : String) : TDate');
17386: end;
17387:
17388: procedure SIRегистер_fpcunit(CL: TPSPascalCompiler);
17389: begin
17390:   SIRегистер_EAssertionFailedError(CL);
17391:   CL.AddTypeS('TTestStep', '( stSetUp, stRunTest, stTearDown, stNothing )');
17392:   CL.AddTypeS('TRunMethod', 'Procedure');
17393:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TTestResult');
17394:   SIRегистер_TTest(CL);
17395:   SIRегистер_TAssert(CL);
17396:   SIRегистер_TTestFailure(CL);
17397:   SIRегистер_TTestListener(CL);
17398:   SIRегистер_TTestCase(CL);
17399:   //CL.AddTypeS('TTestCaseClass', 'class of TTestCase');
17400:   SIRегистер_TTestSuite(CL);
17401:   SIRегистер_TTestResult(CL);
17402:   Function ComparisonMsg( const aExpected : string; const aActual : string) : string');
17403: end;
17404:
17405: procedure SIRегистер_cTCPBuffer(CL: TPSPascalCompiler);
17406: begin
17407:   TOBJECT','ETCPBuffer');
17408:   TTCPBuffer', 'record Ptr : TObject; Size : Integer; Max : Integer';
17409:     +r; Head : Integer; Used : Integer; end');
17410:   'ETHERNET_MTU_100MBIT','LongInt').SetInt( 1500);
17411:   'ETHERNET_MTU_1GBIT','LongInt').SetInt( 9000);
17412:   'TCP_BUFFER_DEFAULTMAXSIZE','LongInt').SetInt( ETHERNET_MTU_1GBT * 4);
17413:   'TCP_BUFFER_DEFAULTBUFSIZE','LongInt').SetInt( ETHERNET_MTU_100MBIT * 4);
17414:   Procedure TCPBufferInitialise(var TCPBuf:TTCPBuffer;const TCPBufMaxSize:Int;const TCPBufSize:Int);
17415:   Procedure TCPBufferFinalise( var TCPBuf : TTCPBuffer)');
17416:   Procedure TCPBufferPack( var TCPBuf : TTCPBuffer)');
17417:   Procedure TCPBufferResize( var TCPBuf : TTCPBuffer; const TCPBufSize : Integer)');
17418:   Procedure TCPBufferExpand( var TCPBuf : TTCPBuffer; const Size : Integer)');
17419:   Procedure TCPBufferShrink( var TCPBuf : TTCPBuffer)');
17420:   Function TCPBufferAddPtr( var TCPBuf : TTCPBuffer; const Size : Integer) : Pointer');
17421:   Procedure TCPBufferAddBuf( var TCPBuf : TTCPBuffer; const Buf : string; const Size : Integer)');
17422:   Function TCPBufferPeekPtr( const TCPBuf : TTCPBuffer; var BufPtr : Pointer) : Integer');
17423:   Function TCPBufferPeek( var TCPBuf : TTCPBuffer; var Buf: string; const Size:Integer): Integer');
17424:   Function TCPBufferRemove(var TCPBuf : TTCPBuffer;var Buf: string; const Size:Integer): Integer');
17425:   Procedure TCPBufferClear( var TCPBuf : TTCPBuffer)');
17426:   Function TCPBufferDiscard( var TCPBuf : TTCPBuffer; const Size : Integer) : Integer');
17427:   Function TCPBufferUsed( const TCPBuf : TTCPBuffer) : Integer');
17428:   Function TCPBufferEmpty( const TCPBuf : TTCPBuffer) : Boolean');
17429:   Function TCPBufferAvailable( const TCPBuf : TTCPBuffer) : Integer');
17430:   Function TCPBufferPtr( const TCPBuf : TTCPBuffer) : Pointer');
17431:   Procedure TCPBufferSetMaxSize( var TCPBuf : TTCPBuffer; const MaxSize : Integer)');
17432: end;
17433:
17434: procedure SIRегистер_Glut(CL: TPSPascalCompiler);
17435: begin
17436:   //CL.AddTypeS('PInteger', '^Integer // will not work');
17437:   //CL.AddTypeS('PPChar', '^PChar // will not work');
17438:   CL.AddConstantN('GLUT_API_VERSION','LongInt').SetInt( 3);
17439:   CL.AddConstantN('GLUT_XLIB_IMPLEMENTATION','LongInt').SetInt( 12);
17440:   CL.AddConstantN('GLUT_RGB','LongInt').SetInt( 0);
17441:   CL.AddConstantN('GLUT_GAME_MODE_REFRESH_RATE','LongInt').SetInt( 5);
17442:   CL.AddConstantN('GLUT_GAME_MODE_DISPLAY_CHANGED','LongInt').SetInt( 6);
17443:   Procedure LoadGlut( const dll : String)');

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17444: Procedure FreeGlut');
17445: end;
17446:
17447: procedure SIRegister_LEDBitmaps(CL: TPSPPascalCompiler);
17448: begin
17449:   CL.AddTypeS('TLEDColor', '( ledcGreen, ledcRed, ledcGray )');
17450:   Function GetLEDBitmapHandle( Color : TLEDColor; State : Boolean) : THandle';
17451: end;
17452:
17453: procedure SIRegister_SwitchLed(CL: TPSPPascalCompiler);
17454: begin
17455:   TLEDColor', '( Aqua, Pink, Purple, Red, Yellow, Green, Blue, Orange, Black )');
17456:   TTLEDState', '( LedOn, LedOff, LedDisabled )';
17457:   SIRegister_TSswitchLed(CL);
17458: //CL.AddDelphiFunction('Procedure Register');
17459: end;
17460:
17461: procedure SIRegister_FileClass(CL: TPSPPascalCompiler);
17462: begin
17463:   CL.AddTypeS('TFileCreateDisposition', '( fdCreateAlways, fdCreateNew, fdOpenE'
17464:     + 'xisting, fdOpenAlways, fdTruncateExisting )');
17465:   CL.AddTypeS('TFileAccess', '( faRead, faWrite, faReadWrite )');
17466:   CL.AddTypeS('TFileSharing', '( fsNone, fsRead, fsWrite, fsReadWrite )');
17467:   SIRegister_TCustomFile(CL);
17468:   SIRegister_TFILE(CL);
17469:   SIRegister_TMemoryFile(CL);
17470:   SIRegister_TTextFileReader(CL);
17471:   SIRegister_TTextFileWriter(CL);
17472:   SIRegister_TFileMapping(CL);
17473:   SIRegister_EFileError(CL);
17474: end;
17475:
17476: procedure SIRegister_FileUtilsClass(CL: TPSPPascalCompiler);
17477: begin
17478:   CL.AddTypeS('TFileAttributes', '( ffaReadOnly, ffaHidden, ffaSysFile, ffaVolumeID'
17479:     + ', ffaDirectory, ffaArchive, ffaAnyFile )');
17480:   CL.AddTypeS('TAttributeSet', 'set of TFileAttributes');
17481:   SIRegister_TFileSearch(CL);
17482: end;
17483:
17484: procedure SIRegister_uColorFunctions(CL: TPSPPascalCompiler);
17485: begin
17486:   TRGBTypte', 'record RedHex : string; GreenHex : string; BlueHex :'
17487:     + 'string; Red : integer; Green : integer; Blue : integer; end');
17488:   Function FadeColor( aColor : Longint; aFade : integer) : Tcolor');
17489:   Function CountColor( aColor : Tcolor; CompareColor : Tcolor; AdjustVale:integer):Tcolor;
17490: end;
17491:
17492: procedure SIRegister_uSettings(CL: TPSPPascalCompiler);
17493: begin
17494:   Procedure SaveOscSettings');
17495:   Procedure GetOscSettings');
17496: end;
17497:
17498: procedure SIRegister_cyDebug(CL: TPSPPascalCompiler);
17499: begin
17500:   TProcProcessEvent', 'Procedure ( Sender : TObject; Index : Integer)');
17501:   RecProcess', 'record Name : ShortString; DurationMs : Cardinal; '
17502:     FirstDurationMs : Cardinal; LastDurationMs : Cardinal; MinDurationMs : Int'
17503:     64; MaxDurationMs : Cardinal; MarksCount : Integer; ArrayMarks : array of '
17504:       Cardinal; EnterCount : Integer; ExitCount : Integer; end');
17505:   SIRegister_TcyDebug(CL);
17506: end;
17507:
17508: (*-----*)
17509: procedure SIRegister_cyCopyFiles(CL: TPSPPascalCompiler);
17510: begin
17511:   TCopyFileResult', '( cfCreate, cfOverwrite, cfNoNeed, cfForceDirectoryError, cfCopyError )';
17512:   TCopyFileExists', '( feDoNothing, feCopy, feCopyIfModified, feCopyIfMoreRecent )';
17513:   TCopyFileNotExists', '( fnDoNothing, fnCopy, fnCopyForceDir )';
17514:   SIRegister_TDestinationOptions(CL);
17515:   TProcCustomCopyFileEvent', 'Procedure ( Sender : TObject; var CopyFileResult : TCopyFileResult)';
17516:   TProcOnCopyFileProgressEvent', 'Procedure(Sender:TObject;FileBytes,
TransferredBytes:int64;PercentDone:Int64);
17517:   TProcOnCustomSetFileDestination', 'Procedure ( Sender : TObject; var FileName : String)';
17518:   SIRegister_TcyCopyFiles(CL);
17519:   Function cyCopyFile(FromFile,ToFile: String; FileExists:TCopyFileExists;FileNotExists:TCopyFileNotExists;
ResetAttr:boolean): TCopyFileResult);
17520:   Function cyCopyFileEx( FromFile,ToFile: String;FileExists: TCopyFileExists;FileNotExists
TCopyFileNotExists; ResetAttr:boolean; aProgressBar:TProgressBar): TCopyFileResult');
17521:   Function cyCopyFilesEx(SourcePath, DestinationPath, IncludeFilters, ExcludeFilters : String; ArchiveFiles,
ReadOnlyFiles, HiddenFiles, SystemFiles : TcyFileAttributeMode; FileExists : TCopyFileExists;''
17522:     + FileNotExists: TCopyFileNotExists; SubFolders, ResetAttributes:Boolean) : Integer');
17523: end;
17524:
17525: procedure SIRegister_cySearchFiles(CL: TPSPPascalCompiler);
17526: begin
17527:   CL.AddTypeS('TcyFileAttributeMode', '( faYes, faNo, faBoth )');
17528:   SIRegister_TcyFileAttributes(CL);

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17529:   SIRegister_TSearchRecInstance(CL);
17530:   TOption', '(
17531:     soOnlyDirs, soIgnoreAttributes, soIgnoreMaskInclude, soIgnoreMaskExclude )');
17532:   TOptions', 'set of TOption');
17533:   TSearchState', '(
17534:     ssIdle, ssPaused, ssSearch, ssPausing, ssResuming, ssAborting )');
17535:   TProcOnValidateFileEvent Procedure(Sender:TObject;ValidMaskIncl,ValidMaskExcl,ValidAttribs:bool;var
17536:   Accept:boolean;
17537:   TProcOnValidateDirectoryEvent ', Procedure(Sender:TObject;Directory:String;var Accept:boolean)');
17538:   SIRegister_TcyCustomSearchFiles(CL);
17539:   SIRegister_TcySearchFiles(CL);
17540:   Function FileNameRespondToMask( aFileName : String; aMask : String ) : Boolean';
17541:   Function IscyFolder( aSRec : TSearchrec : Boolean');
17542:   end;
17543:   procedure SIRegister_jcontrolutils(CL: TPSPascalCompiler);
17544:   begin
17545:     Function jCountChar( const s : string; ch : char ) : integer';
17546:     Procedure jSplit( const Delimiter : char; Input : String; Strings : TStrings );
17547:     Function jNormalizeDate(const Value: String; theValue: TDateTime;const theFormat:string): String';
17548:     Function jNormalizeTime(const Value: String; theValue: TTime;const theFormat : String) : String';
17549:     Function jNormalizeDateSeparator( const s : String ) : String';
17550:     Function jIsValidDateString( const Value : String ) : boolean';
17551:     Function jIsValidTimeString( const Value : String ) : boolean';
17552:     Function jIsValidDateTimeString( const Value : String ) : boolean';
17553:   end;
17554:   procedure SIRegister_kcMapView(CL: TPSPascalCompiler);
17555:   begin
17556:     CL.AddClassN(CL.FindClass('TOBJECT'),'TMapView');
17557:     CL.AddTypeS('TMapSource', '(
17558:       msNone, msGoogleNormal, msGoogleSatellite, msGoo'
17559:       +'gleHybrid, msGooglePhysical, msGooglePhysicalHybrid, msOpenStreetMapMapnik'
17560:       +', msOpenStreetMapOsmarender, msOpenCycleMap, msVirtualEarthBing, msVirtual'
17561:       +'EarthRoad, msVirtualEarthAerial, msVirtualEarthHybrid, msYahooNormal, msYa'
17562:       +'hooSatellite, msYahooHybrid, msOviNormal, msOviSatellite, msOviHybrid, msOviPhysical )');
17563:     TArea', 'record top : Int64; left : Int64; bottom : Int64; right: Int64; end');
17564:     TRealArea', 'record top : Extended; left : Extended; bottom : Extended; right : Extended; end');
17565:     TIntPoint', 'record X : Int64; Y : Int64; end');
17566:     TkRealPoint', 'record X : Extended; Y : Extended; end');
17567:     TOnBeforeDownloadEvent', 'Procedure ( Url : String; str : TStream; var CanHandle : Boolean)';
17568:     TOnAfterDownloadEvent', 'Procedure ( Url : String; str : TStream)');
17569:     SIRegister_TCustomeDownloadEngine(CL);
17570:     SIRegister_TCustomGeolocationEngine(CL);
17571:     SIRegister_TMapView(CL);
17572:   end;
17573:   procedure SIRegister_cparserutils(CL: TPSPascalCompiler);
17574:   begin
17575:     (*CL.AddDelphiFunction('Function isFunc( name : TNamePart ) : Boolean');*)
17576:     CL.AddDelphiFunction('Function isUnnamedFunc( name : TNamepart ) : Boolean');
17577:     Function isPtrToFunc( name : TNamePart ) : Boolean';
17578:     Function isFuncRetFuncPtr( name : TNamePart ) : Boolean';
17579:     Function isPtrToFuncRetFuncPtr( name : TNamePart ) : Boolean';
17580:     Function GetFuncParam( name : TNamePart ) : TNamePart';
17581:     Function isArray( name : TNamePart ) : Boolean';
17582:     Function GetArrayPart( name : TNamePart ) : TNamePart';
17583:     Function GetIdFromPart( name : TNamePart ) : AnsiString';
17584:     Function GetIdPart( name : TNamePart ) : TNamePart';
17585:     Function isNamePartPtrToFunc( part : TNamePart ) : Boolean';
17586:     Function isAnyBlock( part : TNamePart ) : Boolean';*)
17587:     CL.AddTypeS('TLineInfo', 'record linestart : Integer; lineend : Integer; end');
17588:     SIRegister_TLineBreaker(CL);
17589:     CL.AddTypeS('TNameKind', 'Integer');
17590:     CL.AddClassN(CL.FindClass('TOBJECT'),'TNamePart');
17591:     //CL.AddTypeS('TFuncParam', 'record prmtype : TEntity; name : TNamePart; end');
17592:     Function SphericalMod( X : Extended ) : Extended';
17593:     Function cSign( Value : Extended ) : Extended';
17594:     Function LimitFloat( const eValue, eMin, eMax : Extended ) : Extended';
17595:     Function AngleToRadians( iAngle : Extended ) : Extended';
17596:     Function RadiansToAngle( eRad : Extended ) : Extended';
17597:     Function Cross180( iLong : Double ) : Boolean';
17598:     Function Mod180( Value : integer ) : Integer';
17599:     Function Mod180Float( Value : Extended ) : Extended';
17600:     Function MulDivFloat( a, b, d : Extended ) : Extended';
17601:     Function LongDiff( iLong1, iLong2 : Double ) : Double';
17602:     Procedure Bmp_AssignFromPersistent( Source : TPersistent; Bmp : TbitMap );
17603:     Function Bmp_CreateFromPersistent( Source : TPersistent ) : TbitMap';
17604:     Function FixFilePath( const Inpath, CheckPath : String ) : String';
17605:     Function UnFixFilePath( const Inpath, CheckPath : String ) : String';
17606:     Procedure FillStringList( sl : TStringList; const aText : String );
17607:   end;
17608:
17609:   procedure SIRegister_LedNumber(CL: TPSPascalCompiler);
17610:   begin
17611:     TLedSegmentSize', 'Integer';
17612:     TLedNumberBorderStyle', '(
17613:       lnbNone, lnbSingle, lnbSunken, lnbRaised )');
17614:     SIRegister_TCustomLEDNumber(CL);
17615:     SIRegister_TLEDNumber(CL);
17616:

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17617: procedure SIRegister_StStrL(CL: TPSPascalCompiler);
17618: begin
17619:   CL.AddTypeS('LStrRec', 'record AllocSize : Longint; RefCount : Longint; Length : Longint; end');
17620:   CL.AddTypes('AnsiChar', 'Char');
17621:   CL.AddTypeS('BTable', 'array[0..255] of Byte'); //!!!
17622:   CL.AddDelphiFunction('Function HexBL( B : Byte) : AnsiString');
17623:   Function HexWL( W : Word) : AnsiString';
17624:   Function HexLL( L : LongInt) : AnsiString';
17625:   Function HexPtrL( P : __Pointer) : AnsiString';
17626:   Function BinaryBL( B : Byte) : AnsiString';
17627:   Function BinaryWL( W : Word) : AnsiString';
17628:   Function BinaryLL( L : LongInt) : AnsiString';
17629:   Function OctalBL( B : Byte) : AnsiString';
17630:   Function OctalWL( W : Word) : AnsiString';
17631:   Function OctalLL( L : LongInt) : AnsiString';
17632:   Function Str2Int16L( const S : AnsiString; var I : SmallInt) : Boolean';
17633:   Function Str2WordL( const S : AnsiString; var I : Word) : Boolean';
17634:   Function Str2LongL( const S : AnsiString; var I : LongInt) : Boolean';
17635:   Function Str2RealL( const S : AnsiString; var R : Double) : Boolean';
17636:   Function Str2RealL( const S : AnsiString; var R : Real) : Boolean';
17637:   Function Str2ExtL( const S : AnsiString; var R : Extended) : Boolean';
17638:   Function Long2StrL( L : LongInt) : AnsiString';
17639:   Function Real2StrL( R : Double; Width : Byte; Places : ShortInt) : AnsiString';
17640:   Function Ext2StrL( R : Extended; Width : Byte; Places : ShortInt) : AnsiString';
17641:   Function ValPrepL( const S : AnsiString) : AnsiString';
17642:   Function CharStrL( C : Char; Len : Cardinal) : AnsiString';
17643:   Function PadChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString';
17644:   Function PadLL( const S : AnsiString; Len : Cardinal) : AnsiString';
17645:   Function LeftPadChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString';
17646:   Function LeftPadL( const S : AnsiString; Len : Cardinal) : AnsiString';
17647:   Function TrimLeadL( const S : AnsiString) : AnsiString';
17648:   Function TrimTrailL( const S : AnsiString) : AnsiString';
17649:   Function TrimL( const S : AnsiString) : AnsiString';
17650:   Function TrimSpacesL( const S : AnsiString) : AnsiString';
17651:   Function CenterChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString';
17652:   Function CenterL( const S : AnsiString; Len : Cardinal) : AnsiString';
17653:   Function EntabL( const S : AnsiString; TabSize : Byte) : AnsiString';
17654:   Function DatabL( const S : AnsiString; TabSize : Byte) : AnsiString';
17655:   Function ScrambleL( const S, Key : AnsiString) : AnsiString';
17656:   Function SubstituteL( const S, FromStr, ToStr : AnsiString) : AnsiString';
17657:   Function FilterL( const S, Filters : AnsiString) : AnsiString';
17658:   Function CharExistsL( const S : AnsiString; C : AnsiChar) : Boolean';
17659:   Function CharCountL( const S : AnsiString; C : AnsiChar) : Cardinal';
17660:   Function WordCountL( const S, WordDelims : AnsiString) : Cardinal';
17661:   Function WordPositionL( N : Cardinal; const S, WordDelims : AnsiString; var Pos : Cardinal) : Boolean';
17662:   Function ExtractWordL( N : Cardinal; const S, WordDelims : AnsiString) : AnsiString';
17663:   Function AsciiCountL( const S, WordDelims : AnsiString; Quote : AnsiChar) : Cardinal';
17664:   Function AsciiPositionL(N : Cardinal;const S,WordDelims:AnsiString;Quote:AnsiChar;var Pos:Cardinal):Bool;
17665:   Function ExtractAsciiL( N : Cardinal; const S, WordDelims : AnsiString; Quote : AnsiChar) : AnsiString';
17666:   Procedure WordWrapL(const Inst:AnsiString;var OutSt,Overlap:AnsiString;Margin:Cardinal;PadToMargin:Bool;
17667:   Procedure WordWrap(const Inst:AnsiString;var OutSt,Overlap:AnsiString;Margin:Cardinal;PadToMargin:Bool;
17668:   Function CompStringL( const S1, S2 : AnsiString) : Integer';
17669:   Function CompUCStringL( const S1, S2 : AnsiString) : Integer';
17670:   Function SoundexL( const S : AnsiString) : AnsiString';
17671:   Function MakeLetterSetL( const S : AnsiString) : Longint';
17672:   Procedure BMMakeTableL( const MatchString : AnsiString; var BT : BTable)');
17673:   Function BMSearchL(var Buffer,Buflength:Cardinal;var BT:BTable;const MatchString:AnsiString;var
Pos:Card):Bool;
17674:   Function BMSearchUCL( var Buffer, BufLength : Cardinal; var BT : BTable; const MatchString : AnsiString;
var Pos : Cardinal) : Boolean';
17675:   Function DefaultExtensionL( const Name, Ext : AnsiString) : AnsiString';
17676:   Function ForceExtensionL( const Name, Ext : AnsiString) : AnsiString';
17677:   Function JustFilenameL( const PathName : AnsiString) : AnsiString';
17678:   Function JustNameL( const PathName : AnsiString) : AnsiString';
17679:   Function JustExtensionL( const Name : AnsiString) : AnsiString';
17680:   Function JustPathnameL( const PathName : AnsiString) : AnsiString';
17681:   Function AddBackSlashL( const DirName : AnsiString) : AnsiString)';
17682:   Function CleanPathNameL( const PathName : AnsiString) : AnsiString';
17683:   Function HasExtensionL( const Name : AnsiString; var DotPos : Cardinal) : Boolean';
17684:   Function CommaizeL( L : LongInt) : AnsiString';
17685:   Function CommaizeChL( L : Longint; Ch : AnsiChar) : AnsiString';
17686:   Function FloatFormL(const Mask:AnsiString;R:TstFloat;const LtCurr,RtCurr:AnsiString;Sep,
DecPt:Char):AnsiString;
17687:   Function LongIntFormL(const Mask:AnsiString;L:LongInt;const LtCurr,
RtCurr:AnsiString;Sep:Char):AnsiString';
17688:   Function StrChPosL( const P : AnsiString; C : AnsiChar; var Pos : Cardinal) : Boolean';
17689:   Function StrPosL( const P, S : AnsiString; var Pos : Cardinal) : Boolean';
17690:   Function StrStCopyL( const S : AnsiString; Pos, Count : Cardinal) : AnsiString';
17691:   Function StrChInsertL( const S : AnsiString; C : AnsiChar; Pos : Cardinal) : AnsiString';
17692:   Function StrStInsertL( const S1, S2 : AnsiString; Pos : Cardinal) : AnsiString';
17693:   Function StrChDeleteL( const S : AnsiString; Pos : Cardinal) : AnsiString';
17694:   Function StrStDeleteL( const S : AnsiString; Pos, Count : Cardinal) : AnsiString';
17695:   Function ContainsOnlyL( const S, Chars : AnsiString; var BadPos : Cardinal) : Boolean';
17696:   Function ContainsOtherThanL( const S, Chars : AnsiString; var BadPos : Cardinal) : Boolean';
17697:   Function CopyLeftL( const S : AnsiString; Len : Cardinal) : AnsiString';
17698:   Function CopyMidL( const S : AnsiString; First, Len : Cardinal) : AnsiString';
17699:   Function CopyRightL( const S : AnsiString; First : Cardinal) : AnsiString';
17700:   Function CopyRightAbsL( const S : AnsiString; NumChars : Cardinal) : AnsiString';
17701:   Function CopyFromNthWordL(const S,WordDelims:AString;const AWord:AString;N:Cardinal;var
SubString:AString):Bool;

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17702: Function CopyFromToWordL( const S, WordDelims, Word1, Word2: AnsiString; N1, N2: Cardinal; var
17703:   SubString: AnsiString): Bool;
17704: Function CopyWithinL( const S, Delimiter : AnsiString; Strip : Boolean) : AnsiString');
17705: Function DeleteFromNthWordL( const S, WordDelims : AnsiString; const AWord : AnsiString; N : Cardinal;
17706:   var SubString : AnsiString') : Boolean';
17707: Function DeleteFromToWordL( const S, WordDelims, Word1, Word2 : AnsiString; N1, N2 : Cardinal; var
17708:   SubString : AnsiString) : Boolean';
17709: Function ExtractTokensL(const S,
17710:   Delims: AnsiString; QuoteChar: AnsiChar; AllowNulls: Bool; Tokens:TStrings):Cardinal;
17711: Function IsChAlphaL( C : AnsiChar ) : Boolean';
17712: Function IsChNumericL( C : AnsiChar; const Numbers : AnsiString ) : Boolean';
17713: Function IsChAlphaNumericL( C : AnsiChar; const Numbers : AnsiString ) : Boolean');
17714: Function IsStrAlphaL( const S : AnsiString ) : Boolean';
17715: Function IsStrNumericL( const S, Numbers : AnsiString ) : Boolean';
17716: Function IsStrAlphaNumericL( const S, Numbers : AnsiString ) : Boolean');
17717: Function KeepCharsL( const S, Chars : AnsiString ) : AnsiString');
17718: Function LastWordL( const S, WordDelims, AWord : AnsiString; var Position : Cardinal ) : Boolean');
17719: Function LastWordAbsL( const S, WordDelims : AnsiString; var Position : Cardinal ) : Boolean');
17720: Function LastStringL( const S, AString : AnsiString; var Position : Cardinal ) : Boolean');
17721: Function LeftTrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17722: Function ReplaceWordL(const S, WordDelims, OldWord, NewWord:AnsiString;N:Card;var
17723:   Replacements:Card):AnsiString;
17724: Function ReplaceWordAllL(const S,WordDelims,OldWord,NewWord:AnsiString;var
17725:   Replacements:Cardinal):AnsiString');
17726: Function ReplaceStringL(const S,OldString,NewString:AnsiString;N:Cardinal;var
17727:   Replacements:Cardinal):AnsiString;
17728: Function ReplaceStringAllL(const S,OldString,NewString:AnsiString; var Replacements:Cardinal):AnsiString;
17729: Function RepeatStringL(const RepeatString:AnsiString;var Repetitions:Cardinal;MaxLen:Cardinal):AnsiString;
17730: Function RightTrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17731: Function StrWithinL( const S, SearchStr : string; Start : Cardinal; var Position : Cardinal ) : boolean');
17732: Function TrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17733: Function WordPosL(const S,WordDelims,AWord: AnsiString;N:Cardinal;var Position:Cardinal):Bool;
17734: Function WordPos(const S,WordDelims,AWord:AnsiString;N:Cardinal;var Position:Cardinal):Bool;
17735: end;
17736: procedure SIRegister_pwnative_out(CL: TPSPascalCompiler);
17737: begin
17738:   CL.AddConstantN('STDIN','LongInt').SetInt( 0 );
17739:   ('STDOUT','LongInt').SetInt( 1 );
17740:   ('STDERR','LongInt').SetInt( 2 );
17741:   Procedure NativeWrite( s : astr);';
17742:   Procedure NativeWriteln( PString : PChar);';
17743:   Procedure NativeWrite2( Buffer : PChar; NumChars : Cardinal);';
17744:   Procedure NativeWriteLn( s : astr);';
17745:   Procedure NativeWriteLn1();';
17746: end;
17747: procedure SIRegister_synwrap1(CL: TPSPascalCompiler);
17748: begin
17749:   CL.AddTypeS(TSynwInfo', 'record Err : byte; UrlHtml : ansistring; ErrResponse
17750:   : integer; UltimateURL : ansistring; Headers : ansistring; end');
17751:   CL.AddTypeS('TUrlInfo', 'record Err : byte; UltimateURL : string; end');
17752:   Function GetHttpFile( const Url, UserAgent, Outfile : string; verbose : boolean): TSynwInfo;');
17753:   Function GetHttpFile1( const Url, UserAgent, Outfile : string ) : TSynwInfo;');
17754:   Function GetHttpFile2( const Url, Outfile : string ) : TSynwInfo;');
17755:   Function GetHttpFile3( const Url, outfile : string; verbose : boolean ) : TSynwInfo;');
17756:   Function GetHtm( const Url : string ) : string;');
17757:   Function GetHtml( const Url, UserAgent : string ) : string;');
17758:   Function GetUrl( const Url : string; verbose : boolean ) : TSynwInfo;');
17759:   Function GetUrl1( const Url, useragent : string ) : TSynwInfo;');
17760:   Function GetUrl2( const Url : string ) : TSynwInfo;');
17761:   Function GetUrl3( const Url : string; const http : THTTPSSend; verbose : boolean): TUrlInfo;');
17762:   Function GetUrl4( const Url : string; const http : THTTPSSend ) : TUrlInfo;');
17763:   Procedure StrToStream( s : String; strm : TMemoryStream );
17764:   Function StrLoadStream( strm : TStream ) : String );
17765: end;
17766: procedure SIRegister_HTMLUtil(CL: TPSPascalCompiler);
17767: begin
17768:   Function GetVal( const tag, attribname_ci : string ) : string';
17769:   Function GetTagName( const Tag : string ) : string';
17770:   Function GetUpTagName( const tag : string ) : string';
17771:   Function GetNameValPair( const tag, attribname_ci : string ) : string');
17772:   Function GetValFromNameVal( const namevalpair : string ) : string');
17773:   Function GetNameValPair_cs( const tag, attribname : string ) : string');
17774:   Function GetVal_JAMES( const tag, attribname_ci : string ) : string');
17775:   Function GetNameValPair_JAMES( const tag, attribname_ci : string ) : string');
17776:   Function CopyBuffer( StartIndex : PChar; Len : integer ) : string );
17777:   Function Ucase( s : string ) : string');
17778: end;
17779: procedure SIRegister_pwmain(CL: TPSPascalCompiler);
17780: begin
17781:   CL.AddConstantN('FUTURE_COOKIE','String').SetString( 'Mon, 01 Dec 2099 12:00:00 GMT' );
17782:   EXPIRED_COOKIE','String').SetString( 'Mon, 01 Jan 2001 12:00:00 GMT' );
17783:   'SECURE_OFF','LongInt').SetInt( 0 );
17784:   'SECURE_ON','LongInt').SetInt( 2 );

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17784: 'SECURE_FILTER','LongInt').SetInt( 3);
17785: THandle or DWord!
17786: //  astr = ansiString;
17787: CL.AddTypeS('pastr', 'ansiString');
17788: CL.AddTypeS('TFilterFunc', 'function(const s: pastr): pastr;');
17789: uses pwin32 at begin
17790: //type TFilterFunc = function(const s: astr): astr;
17791: Demo: ..\maxbox3\examples2\519_powlts.txt
17792:
17793: //CL.AddConstantN('CASE_SENSITIVE','Boolean')BoolToStr( false);
17794: //CL.AddConstantN('CASE_IGNORE','Boolean')BoolToStr( false);
17795: Procedure pwInit();
17796: Procedure OffReadln();
17797: Function Lcase( const s : pastr) : pastr';
17798: Function Ucase( const s : pastr) : pastr';
17799: Function CountPostVars : longword';
17800: Function GetPostVar( const name : pastr) : pastr';
17801: Function GetPostVar1( const name : pastr; filter : TFilterFunc) : pastr';
17802: Function GetPostVar_S( const name : pastr; Security : integer) : pastr';
17803: Function GetPostVar_SF( const name : pastr; Security : integer) : pastr';
17804: Function GetPostVarAsFloat( const name : pastr) : double';
17805: Function GetPostVarAsInt( const name : pastr) : longint';
17806: Function GetPostVar_SafeHTML( const name : pastr) : pastr';
17807: Function FetchPostVarName( idx : longword) : pastr';
17808: Function FetchPostVarVal( idx : longword) : pastr';
17809: Function FetchPostVarVal1( idx : longword; filter : TFilterFunc) : pastr';
17810: Function FetchPostVarName_S( idx : longword; Security : integer) : pastr';
17811: Function FetchPostVarVal_S( idx : longword; Security : integer) : pastr';
17812: Function IsPostVar( const name : pastr) : boolean';
17813: Function CountAny : longword';
17814: Function GetAny( const name : pastr) : pastr';
17815: Function GetAny1( const name : pastr; filter : TFilterFunc) : pastr';
17816: Function GetAny_S( const name : pastr; Security : integer) : pastr';
17817: Function GetAnyAsFloat( const name : pastr) : double';
17818: Function GetAnyAsInt( const name : pastr) : longint';
17819: Function IsAny( const name : pastr) : byte';
17820: Function CountCookies : longword';
17821: Function FetchCookieName( idx : longword) : pastr';
17822: Function FetchCookieVal( idx : longword) : pastr';
17823: Function FetchCookieVal1( idx : longword; filter : TFilterFunc) : pastr';
17824: Function GetCookie( const name : pastr) : pastr';
17825: Function GetCookie1( const name : pastr; filter : TFilterFunc) : pastr';
17826: Function GetCookieAsFloat( const name : pastr) : double';
17827: Function GetCookieAsInt( const name : pastr) : longint';
17828: Function IsCookie( const name : pastr) : boolean';
17829: Function SetCookie( const name, value : pastr) : boolean';
17830: Function SetCookieAsFloat( const name : pastr; value : double) : boolean';
17831: Function SetCookieAsInt( const name : pastr; value : longint) : boolean';
17832: Function SetCookieEx( const name, value, path, domain, expiry : pastr) : boolean';
17833: Function SetCookieAsFloatEx( const name:pastr;value : double; const path,domain,expiry:pastr):bool;
17834: Function SetCookieAsIntEx( const name:pastr;value : longint; const path,domain,expiry:pastr):bool;
17835: Function UnsetCookie( const name : pastr) : boolean';
17836: Function UnsetCookieEx( const name, path, domain : pastr) : boolean';
17837: Function FilterHtml( const input : pastr) : pastr';
17838: Function FilterHtml_S( const input : pastr; security : integer) : pastr';
17839: Function TrimBadChars( const input : pastr) : pastr';
17840: Function TrimBadFile( const input : pastr) : pastr';
17841: Function TrimBadDir( const input : pastr) : pastr';
17842: Function TrimBad_S( const input : pastr; security : integer) : pastr';
17843: Function CountHeaders : longword';
17844: Function FetchHeaderName( idx : longword) : pastr';
17845: Function FetchHeaderVal( idx : longword) : pastr';
17846: Function GetHeader( const name : pastr) : pastr';
17847: Function IsHeader( const name : pastr) : boolean';
17848: Function SetHeader( const name, value : pastr) : boolean';
17849: Function UnsetHeader( const name : pastr) : boolean';
17850: Function PutHeader( const header : pastr) : boolean';
17851: Procedure Out1( const s : pastr)');
17852: Procedure OutLn( const s : pastr)');
17853: Procedure OutA( args : array of const)');
17854: Procedure OutF( const s : pastr)');
17855: Procedure OutLnF( const s : pastr)');
17856: Procedure OutFF( const s : pastr)');
17857: Procedure OutF_FI( const s : pastr; HTMLFilter : boolean)');
17858: Procedure OutLnFF( const s : pastr)');
17859: Procedure OutLnF_FI( const s : pastr; HTMLFilter : boolean)');
17860: Function FileOut( const fname : pastr) : word');
17861: Function ResourceOut( const fname : pastr) : word');
17862: Procedure BufferOut( const buff, len : LongWord)');
17863: Function TemplateOut( const fname : pastr; HtmlFilter : boolean) : word');
17864: Function TemplateOut1( const fname : pastr) : word');
17865: Function TemplateOut2( const fname : pastr; filter : TFilterFunc) : word');
17866: Function TemplateOut3( const fname : pastr; HtmlFilter : boolean) : word');
17867: Function TemplateRaw( const fname : pastr) : word');
17868: Function Fmt( const s : pastr) : pastr');
17869: Function Fmt1( const s : pastr; filter : TFilterFunc) : pastr');
17870: Function FmtFilter( const s : pastr) : pastr');
17871: Function Fmt_SF(const s:pastr;HTMLFilter:bool;filter:TFilterFunc;FilterSecurity:int):pastr;
17872: Function Fmt_SF1(const s:pastr; HTMLFilter:boolean; FilterSecurity : integer) : pastr');

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17873: Function CountRtiVars : longword');
17874: Function FetchRtiName( idx : longword) : pastr');
17875: Function FetchRtiVal( idx : longword) : pastr');
17876: Function GetRti( const name : pastr) : pastr');
17877: Function GetRtiAsFloat( const name : pastr) : double');
17878: Function GetRtiAsInt( const name : pastr) : longint');
17879: Function IsRti( const name : pastr) : boolean');
17880: Procedure SetRTI( const name, value : pastr)');
17881: Function FetchUpfileName( idx : longword) : pastr');
17882: Function GetUpfileName( const name : pastr) : pastr');
17883: Function GetUpfileSize( const name : pastr) : longint');
17884: Function GetUpFileType( const name : pastr) : pastr');
17885: Function CountUpfiles : longword');
17886: Function IsUpfile( const name : pastr) : boolean');
17887: Function SaveUpfile( const name, fname : pastr) : boolean');
17888: Function CountVars : longword');
17889: Function FetchVarName( idx : longword) : pastr');
17890: Function FetchVarVal( idx : longword) : pastr');
17891: Function FetchVarVal1( idx : longword; filter : TFilterFunc) : pastr');
17892: Function GetVar( const name : pastr) : pastr');
17893: Function GetVar1( const name : pastr; filter : TFilterFunc) : pastr');
17894: Function GetVar_S( const name : pastr; security : integer) : pastr');
17895: Function GetVarAsFloat( const name : pastr) : double');
17896: Function GetVarAsInt( const name : pastr) : longint');
17897: Procedure SetVar( const name, value : pastr)');
17898: Procedure SetVarAsFloat( const name : pastr; value : double)');
17899: Procedure SetVarAsInt( const name : pastr; value : longint)');
17900: Function IsVar( const name : pastr) : byte');
17901: Procedure UnsetVar( const name : pastr)');
17902: Function LineEndToBR( const s : pastr) : pastr');
17903: Function RandomStr( len : longint) : pastr');
17904: Function XorCrypt( const s : pastr; key : byte) : pastr');
17905: Function CountCfgVars : longword');
17906: Function FetchCfgVarName( idx : longword) : pastr');
17907: Function FetchCfgVarVal( idx : longword) : pastr');
17908: Function IsCfgVar( const name : pastr) : boolean');
17909: Function SetCfgVar( const name, value : pastr) : boolean');
17910: Function GetCfgVar( const name : pastr) : pastr');
17911: Procedure ThrowErr( const s : pastr)');
17912: Procedure ThrowWarn( const s : pastr)');
17913: Procedure ErrWithHeader( const s : pastr)');
17914: CL.AddTypeS('TWebVar', 'record name : pastr; value : pastr; end');
17915: CL.AddTypeS('TWebVars', 'array of TWebVar');
17916: Function iUpdateWebVar(var webv : TWebVars; const name, value:pastr; upcased:boolean):boolean');
17917: Function iAddWebCfgVar( const name, value : pastr) : boolean');
17918: Procedure iAddWebVar( var webv : TWebVars; const name, value : pastr)');
17919: Procedure iSetRTI( const name, value : pastr)');
17920: Function iCustomSessUnitSet : boolean');
17921: Function iCustomCfgUnitSet : boolean');
17922: end;
17923:
17924: function TRestRequest_createStringStreamFromStringList(strings: TStringList): TFileStream;
17925:
17926: {A simple Oscilloscope using TWaveIn class.
17927: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
17928: uses
17929:   Forms,
17930:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
17931:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
17932:   uColorFunctions in 'uColorFunctions.pas',
17933:   AMixer in 'AMixer.pas',
17934:   uSettings in 'uSettings.pas',
17935:   UWavein4 in 'UWavein4.pas',
17936:   USpectrum4 in 'USpectrum4.pas' {Form2},
17937:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
17938:
17939:
17940: Functions_max hex in the box maxbox
17941: functionslist.txt
17942: FunctionsList1 3.9.9.86/88/91/92/94/95/96/98/100
17943:
17944: ****
17945: Procedure
17946: PROCEDURE SIZE 8289 8242 7507 7401 6792 6310 5971 4438 3797 3600
17947: Procedure *****Now the Procedure list*****
17948: Procedure ( ACol, ARow : Integer; Items : TStrings)
17949: Procedure ( Agg : TAggregate)
17950: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
17951: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
17952: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
17953: Procedure ( ASender : TObject; const ABytes : Integer)
17954: Procedure ( ASender : TObject; VStream : TStream)
17955: Procedure ( AThread : TIdThread)
17956: Procedure ( AWebModule : TComponent)
17957: Procedure ( Column : TColumn)
17958: Procedure ( const AUsername : String; const APassword : String; AAAuthenticationResult : Boolean)
17959: Procedure ( const iStart : integer; const sText : string)
17960: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
17961: Procedure ( Database : TDatabase; LoginParams : TStrings)

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17962: Procedure (DataSet:TCustomClientDataSet;E:EReconcileError;UpdateKind:TUpdateKind;var
  Action:TReconcileAction)
17963: Procedure ( DATASET : TDATASET )
17964: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction)
17965: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION )
17966: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction )
17967: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN )
17968: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer )
17969: Procedure ( Done : Integer )
17970: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection )
17971: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
17972: Procedure ( HeaderControl:TCustomHeaderControl;Sect:THeaderSection;Width:Int;State:TSectionTrackState)
17973: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection )
17974: Procedure ( HeaderControl:THeaderControl;Section : THeaderSection; const Rect:TRect; Pressed : Boolean)
17975: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
17976: Procedure ( Sender : TCustomListView;const ARect : TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
17977: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
17978: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState)
17979: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
17980: Procedure ( SENDER : TFIELD; const TEXT : String)
17981: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : Boolean)
17982: Procedure ( Sender : TIdTelnet; const Buffer : String)
17983: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
17984: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : Boolean)
17985: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17986: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : Integer)
17987: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)
17988: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
17989: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
17990: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string)
17991: Procedure ( Sender : TObject; Button : TMPBtnType)
17992: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
17993: Procedure ( Sender : TObject; Button : TUDBtnType)
17994: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
17995: Procedure ( Sender: TObject; ClientSocket: TServerClientWinSocket; var SocketThread : TServerClientThread)
17996: Procedure ( Sender : TObject; Column : TListColumn)
17997: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
17998: Procedure ( Sender : TObject; Connecting : Boolean)
17999: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var
  DoneDraw:Bool
18000: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
18001: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
18002: Procedure ( Sender : TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
18003: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
18004: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
18005: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
18006: Procedure ( Sender : TObject; Index : LongInt)
18007: Procedure ( Sender : TObject; Item : TListItem)
18008: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
18009: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
18010: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
18011: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
18012: Procedure ( Sender : TObject; Item : TListItem; var S : string)
18013: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
18014: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
18015: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
18016: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
18017: Procedure ( Sender : TObject; Node : TTreenode)
18018: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
18019: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
18020: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
18021: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
18022: Procedure ( Sender : TObject; Node : TTreenode; var S : string)
18023: Procedure ( Sender : TObject; Node1, Node2 : TTreenode; Data : Integer; var Compare : Integer)
18024: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
18025: Procedure ( Sender : TObject; Rect : TRect)
18026: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
18027: Procedure ( Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
18028: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
18029: Procedure ( Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
18030: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
18031: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
18032: Procedure ( SENDER : TOBJECT; SOURCE : TMENUITEM; REBUILD : Boolean)
18033: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
18034: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
18035: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
18036: Procedure ( Sender : TObject; Thread : TServerClientThread)
18037: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
18038: Procedure ( Sender : TObject; Username, Password : string)
18039: Procedure ( Sender : TObject; var AllowChange : Boolean)
18040: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
18041: Procedure ( Sender : TObject; var Caption : string; var Alignment : THMLCaptionAlignment)
18042: Procedure ( Sender : TObject; var Continue : Boolean)
18043: Procedure (Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMETHOD:TIdHTTPMethod)
18044: Procedure ( Sender : TObject; var Username : string)
18045: Procedure ( Sender : TObject; Wnd : HWND)
18046: Procedure ( Sender : TToolbar; Button : TToolBarbutton)
18047: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
18048: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)

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18049: Procedure ( Sender : TToolbar; Index : Integer; var Allow : Boolean)
18050: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolButton)
18051: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
18052: Procedure ( StatusBar : TStatusBar; Panel : TStatusPanel; const Rect : TRect)
18053: Procedure ( var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
18054: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
18055: procedure (Sender: TObject)
18056: procedure (Sender: TObject; var Done: Boolean)
18057: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
18058: procedure _T(Name: tbtString; v: Variant);
18059: Procedure AbandonSignalHandler( RtlSigNum : Integer)
18060: Procedure Abort
18061: Procedure About1Click( Sender : TObject)
18062: Procedure Accept( Socket : TSocket)
18063: Procedure AESSymmetricExecute(const plaintext, ciphertext, password: string)
18064: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
18065: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
18066: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
18067: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
18068: Procedure Add( Addend1, Addend2 : TMyBigInt)
18069: Procedure ADD( const AKEY, AVALUE : VARIANT)
18070: Procedure Add( const Key : string; Value : Integer)
18071: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
18072: Procedure ADD( FIELD : TFIELD)
18073: Procedure ADD( ITEM : TMENUITEM)
18074: Procedure ADD( POPUP : TPOPUPMENU)
18075: Procedure AddCharacters( xCharacters : TCharSet)
18076: Procedure AddDriver( const Name : string; List : TStrings)
18077: Procedure AddImages( Value : TCustomImageList)
18078: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
18079: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
18080: Procedure AddLoader( Loader : TBitmapLoader)
18081: Procedure ADDPARAM( VALUE : TPARAM)
18082: Procedure AddPassword( const Password : string)
18083: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
18084: Procedure AddState( oState : TniRegularExpressionState)
18085: Procedure AddStrings( Strings : TStrings);
18086: procedure AddStrings(Strings: TStrings);
18087: Procedure AddString1( Strings : TWideStrings);
18088: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
18089: Procedure AddToRecentDocs( const Filename : string)
18090: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
18091: Procedure AllFunctionsList1Click( Sender : TObject)
18092: procedure AllObjectsList1Click(Sender: TObject);
18093: Procedure Allocate( AAllocateBytes : Integer)
18094: procedure AllResourceList1Click(Sender: TObject);
18095: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
18096: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
18097: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
18098: Procedure AnsiFree( var s : AnsiString)
18099: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
18100: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
18101: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
18102: Procedure Ansistring_to_stream( const Value : ansistring; Destin : TStream)
18103: Procedure AntiFreeze;
18104: Procedure APPEND
18105: Procedure Append( const S : WideString)
18106: procedure Append(S: string);
18107: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
18108: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TidBytes)
18109: Procedure AppendChunk( Val : OleVariant)
18110: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
18111: Procedure AppendStr( var Dest : string; S : string)
18112: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALength : Integer)
18113: Procedure ApplyRange
18114: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18115: Procedure Arrange( Code : TListArrangement)
18116: procedure Assert(expr : Boolean; const msg: string);
18117: procedure Assert2(expr : Boolean; const msg: string);
18118: Procedure Assign( AList : TCustomBucketList)
18119: Procedure Assign( Other : TObject)
18120: Procedure Assign( Source : TDragObject)
18121: Procedure Assign( Source : TPersistent)
18122: Procedure Assign(Source: TPersistent)
18123: procedure Assign2(mystring, mypath: string);
18124: Procedure AssignCurValues( Source : TDataSet);
18125: Procedure AssignCurValues1( const CurValues : Variant);
18126: Procedure ASSIGNFIELD( FIELD : TFIELD)
18127: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
18128: Procedure AssignFile(var F: Text; FileName: string)
18129: procedure AssignFile(var F: TextFile; FileName: string)
18130: procedure AssignFileRead(var mystring, myfilename: string);
18131: procedure AssignFileWrite(mystring, myfilename: string);
18132: Procedure AssignTo( Other : TObject)
18133: Procedure AssignValues( Value : TParameters)
18134: Procedure ASSIGNVALUES( VALUE : TPARAMS)
18135: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
18136: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
18137: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);

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18138: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
18139: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
18140: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
18141: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
18142: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
18143: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
18144: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
18145: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
18146: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
18147: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
18148: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
18149: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
18150: procedure Beep
18151: Procedure BeepOk
18152: Procedure BeepQuestion
18153: Procedure BeepHand
18154: Procedure BeepExclamation
18155: Procedure BeepAsterisk
18156: Procedure BeepInformation
18157: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
18158: Procedure BeginLayout
18159: Procedure BeginTimer( const Delay, Resolution : Cardinal)
18160: Procedure BeginUpdate
18161: procedure BeginUpdate;
18162: procedure BigScreen1Click(Sender: TObject);
18163: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
18164: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
18165: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
18166: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
18167: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
18168: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
18169: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
18170: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
18171: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
18172: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
18173: Procedure BreakPointMenuClick( Sender : TObject)
18174: procedure BRINGTOFRONT
18175: procedure BringToFront;
18176: Procedure btnBackClick( Sender : TObject)
18177: Procedure btnBrowseClick( Sender : TObject)
18178: Procedure BtnClick( Index : TNavigateBtn)
18179: Procedure btnLargeIconsClick( Sender : TObject)
18180: Procedure BuildAndSendRequest( AURI : TIdURI)
18181: Procedure BuildCache
18182: Procedure BurnMemory( var Buff, BuffLen : integer)
18183: Procedure BurnMemoryStream( Destructo : TMemoryStream)
18184: Procedure CalculateFirstSet
18185: Procedure Cancel
18186: procedure CancelDrag;
18187: Procedure CancelEdit
18188: procedure CANCELHINT
18189: Procedure CancelRange
18190: Procedure CancelUpdates
18191: Procedure CancelWriteBuffer
18192: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
18193: Procedure Capture2(ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
18194: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
18195: procedure CaptureScreenFormat(vname: string; vextension: string);
18196: procedure CaptureScreenPNG(vname: string);
18197: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
18198: procedure CASCADE
18199: Procedure CastNativeToSoap(Info:PTTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
18200: Procedure CastSoapToVariant( SoapInfo : PTTypeInfo; const SoapData : WideString; NatData : Pointer);
18201: Procedure cbPathClick( Sender : TObject)
18202: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
18203: Procedure cedebugAfterExecute( Sender : TPSScript)
18204: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
18205: Procedure cedebugCompile( Sender : TPSScript)
18206: Procedure cedebugExecute( Sender : TPSScript)
18207: Procedure cedebugIdle( Sender : TObject)
18208: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
18209: Procedure CenterHeight( const pc, pcParent : TControl)
18210: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
18211: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
18212: Procedure Change
18213: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
18214: Procedure Changed
18215: Procedure ChangeDir( const ADirName : string)
18216: Procedure ChangeDirUp
18217: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
18218: Procedure ChangeLevelBy( Value : TChangeRange)
18219: Procedure ChDir(const s: string)
18220: Procedure Check(Status: Integer)
18221: Procedure CheckCommonControl( CC : Integer)
18222: Procedure CHECKFIELDNAME( const FIELDNAME : String)
18223: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
18224: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
18225: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
18226: Procedure CheckToken( T : Char)

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18227: procedure CheckToken(t:char)
18228: Procedure CheckTokenSymbol( const S : string)
18229: procedure CheckTokenSymbol(s:string)
18230: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
18231: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18232: Procedure CIED65ToCIED50( var X, Y, Z : Extended)
18233: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal);
18234: procedure CipherFile1Click(Sender: TObject);
18235: Procedure Clear;
18236: Procedure Clear1Click( Sender : TObject)
18237: Procedure ClearColor( Color : TColor)
18238: Procedure CLEARITEM( AITEM : TMENUITEM)
18239: Procedure ClearMapping
18240: Procedure ClearSelection( KeepPrimary : Boolean)
18241: Procedure ClearWriteBuffer
18242: Procedure Click
18243: Procedure Close
18244: Procedure Close1Click( Sender : TObject)
18245: Procedure CloseDatabase( Database : TDatabase)
18246: Procedure CloseDataSets
18247: Procedure CloseDialog
18248: Procedure CloseFile(var F: Text);
18249: Procedure Closure
18250: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18251: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18252: Procedure CodeCompletionList1Click( Sender : TObject)
18253: Procedure ColEnter
18254: Procedure Collapse
18255: Procedure Collapse( Recurse : Boolean)
18256: Procedure ColorRGBtoHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word)
18257: Procedure CommaSeparatedToStringList( Alist : TStringList; const Value : string)
18258: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction)
18259: Procedure Compile1Click( Sender : TObject)
18260: procedure ComponentCount1Click(Sender: TObject);
18261: Procedure Compress(azipfolder, azipfile: string)
18262: Procedure DeCompress(azipfolder, azipfile: string)
18263: Procedure XZip(azipfolder, azipfile: string)
18264: Procedure XUnZip(azipfolder, azipfile: string)
18265: Procedure Connect( const ATimeout : Integer)
18266: Procedure Connect( Socket : TSocket)
18267: procedure Console1Click(Sender: TObject);
18268: Procedure Continue
18269: Procedure ContinueCount( var Counter : TJclCounter)
18270: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
18271: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
18272: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
18273: Procedure ConvertImage(vsource, vdestination: string);
18274: // Ex. ConvertImage(Exepath+'my233.bmp.bmp',Exepath+'mypng111.png')
18275: Procedure ConvertBitmap(vsource, vdestination: string);
18276: Procedure ConvertToGray(Cnv: TCanvas);
18277: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
18278: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
18279: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
18280: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
18281: Procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASourceIndex : Integer; var VDest : Word)
18282: Procedure CopyFrom( mbCopy : TMyBigInt)
18283: Procedure CopyMemoryStream( Source, Destination : TMemoryStream)
18284: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
18285: Procedure CopyTIDByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ALength : Integer)
18286: Procedure CopyTIDBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int)
18287: Procedure CopyTIDCardinal( const ASource : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer)
18288: Procedure CopyTIDInt64( const ASource : Int64; var VDest : TIdBytes; const ADestIndex : Integer)
18289: Procedure CopyTIDIPv6Address(const ASource:TIdIPv6Address; var VDest: TIdBytes; const ADestIndex : Integer)
18290: Procedure CopyTIDLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex : Integer)
18291: Procedure CopyTIDNetworkLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex:Integer)
18292: Procedure CopyTIDNetworkWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
18293: Procedure CopyTIDString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
18294: Procedure CopyTIDWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
18295: Procedure CopyToClipboard
18296: Procedure CountParts
18297: Procedure CreateDataSet
18298: Procedure CreateEmptyFile( const FileName : string)
18299: Procedure CreateFromFileFromString( const FileName, Data : string)
18300: Procedure CreateFromDelta( Source : TPacketDataSet)
18301: procedure CREATEHANDLE
18302: Procedure CreatePipeStreams(var InPipe:TInputPipeStream;var OutPipe:TOutputPipeStream;SecAttr:PSecurityAttributes;BufSize:Longint);
18303: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
18304: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
18305: Procedure CreateTable
18306: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
18307: procedure CSyntax1Click(Sender: TObject);
18308: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
18309: Procedure CURSORPOSCHANGED
18310: procedure CutFirstDirectory(var S: String)
18311: Procedure DataBaseError(const Message: string)
18312: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);

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18313: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
18314: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
18315: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
18316: Procedure DBIError(errorCode: Integer)
18317: Procedure DebugOutput( const AText : string)
18318: Procedure DebugRun1Click( Sender : TObject)
18319: procedure Dec;
18320: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
18321: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
18322: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
18323: Procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word)
18324: Procedure DecodeDateTime(const AValue:TDateTime;out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
18325: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
18326: Procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
18327: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
18328: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
18329: Procedure Decompile1Click( Sender : TObject)
18330: Procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
18331: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
18332: Procedure DeferLayout
18333: Procedure deferleread
18334: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL; REMOVING:BOOLEAN)
18335: Procedure DelayMicroseconds( const MicroSeconds : Integer)
18336: Procedure Delete
18337: Procedure Delete( const AFilename : string)
18338: Procedure Delete( const Index : Integer)
18339: Procedure DELETE( INDEX : INTEGER)
18340: Procedure Delete( Index : LongInt)
18341: Procedure Delete( Node : TTreeNode)
18342: procedure Delete(var s: AnyString; ifrom, icount: Longint);
18343: Procedure DeleteAlias( const Name : string)
18344: Procedure DeleteDriver( const Name : string)
18345: Procedure DeleteIndex( const Name : string)
18346: Procedure DeleteKey( const Section, Ident : String)
18347: Procedure DeleteRecords
18348: Procedure DeleteRecords( AffectRecords : TAffectRecords)
18349: Procedure DeleteString( var pStr : String; const pDelStr : string)
18350: Procedure DeleteTable
18351: procedure DelphiSite1Click(Sender: TObject);
18352: Procedure Deselect
18353: Procedure Deselect( Node : TTreeNode)
18354: procedure DestroyComponents
18355: Procedure DestroyHandle
18356: Procedure Diff( var X : array of Double)
18357: procedure Diff(var X: array of Double);
18358: Procedure DirCreate( const DirectoryName : String)');
18359: procedure DISABLEALIGN
18360: Procedure DisableConstraints
18361: Procedure Disconnect
18362: Procedure Disconnect( Socket : TSocket)
18363: Procedure Dispose
18364: procedure Dispose(P: PChar)
18365: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
18366: Procedure DoKey( Key : TDBCtrlGridKey)
18367: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
18368: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
18369: Procedure Dormant
18370: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd);
18371: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
18372: Procedure DoubleToComp( Value : Double; var Result : Comp)
18373: Procedure doWebCamPic(picname: string); //eg: c:\mypic.png
18374: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
18375: procedure Draw(X, Y: Integer; Graphic: TGraphic);
18376: Procedure Draw(Canvas:TCanvas; X,Y,
Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
18377: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
18378: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
18379: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
18380: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
18381: procedure DrawFocusRect(const Rect: TRect);
18382: Procedure DrawHBITToTBitmap( HDIB : THandle; Bitmap : TBitmap)
18383: Procedure DRAWMENUTITEM( MENUITEM: TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
18384: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean);
18385: Procedure DrawOverlay1(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle : TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
18386: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
18387: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
18388: Procedure DropConnections
18389: Procedure DropDown
18390: Procedure DumpDescription( oStrings : TStrings)
18391: Procedure DumpStateTable( oStrings : TStrings)
18392: Procedure EDIT
18393: Procedure EditButtonClick
18394: Procedure EditFont1Click( Sender : TObject)
18395: procedure Ellipse(X1, Y1, X2, Y2: Integer);
18396: Procedure Ellipse1( const Rect : TRect);
18397: Procedure EMMS
18398: Procedure Encode( ADest : TStream)
18399: procedure ENDDRAG(DROP:BOOLEAN)

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18400: Procedure EndEdit( Cancel : Boolean)
18401: Procedure EndTimer
18402: Procedure EndUpdate
18403: Procedure EraseSection( const Section : string)
18404: Procedure Error( const Ident : string)
18405: procedure Error(Ident:Integer)
18406: Procedure ErrorFmt( const Ident : string; const Args : array of const)
18407: Procedure ErrorStr( const Message : string)
18408: procedure ErrorStr(Message:String)
18409: Procedure Exchange( Index1, Index2 : Integer)
18410: procedure Exchange(Index1, Index2: Integer);
18411: Procedure Exec( FileName, Parameters, Directory : string)
18412: Procedure ExecProc
18413: Procedure ExecsSQL( UpdateKind : TUpdateKind)
18414: Procedure Execute
18415: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
18416: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
18417: Procedure ExecuteCommand(executeFile, paramstring: string)
18418: Procedure ExecuteShell(executeFile, paramstring: string)
18419: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
18420: Procedure ExitThread(ExitCode: Integer); stdcall;
18421: Procedure ExitProcess(ExitCode: Integer); stdcall;
18422: Procedure Expand( AUserName : String; AResults : TStrings)
18423: Procedure Expand( Recurse : Boolean)
18424: Procedure ExportClipboardClick( Sender : TObject)
18425: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
18426: Procedure ExtractContentFields( Strings : TStrings)
18427: Procedure ExtractCookieFields( Strings : TStrings)
18428: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
18429: Procedure ExtractHeaderFields(Separ,
 WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)
18430: Procedure ExtractHTTPFields(Separators,WhiteSpace:
  TSysCharSet;Content:PChar;Strings:TStrings;StripQuotes:Bool)
18431: Procedure ExtractQueryFields( Strings : TStrings)
18432: Procedure FastDegToGrad
18433: Procedure FastDegToRad
18434: Procedure FastGradToDeg
18435: Procedure FastGradToRad
18436: Procedure FastRadToDeg
18437: Procedure FastRadToGrad
18438: Procedure FileClose( Handle : Integer)
18439: Procedure FileClose(handle: integer)
18440: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs>ShowDirs,Multitasking:Bool)
18441: Procedure FileStructure( AStructure : TIIdFTPDataStructure)
18442: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
18443: Procedure FillBytes( var VBytes : TIddBytes; const ACount : Integer; const AValue : Byte)
18444: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
18445: Procedure FillChar2(var X: PChar ; count: integer; value: char)
18446: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
18447: Procedure FillIPList
18448: procedure FillRect(const Rect: TRect);
18449: Procedure FillTStrings( AStrings : TStrings)
18450: Procedure FilterOnBookmarks( Bookmarks : array of const)
18451: procedure FinalizePackage(Module: HMODULE)
18452: procedure FindClose;
18453: procedure FindClose2(var F: TSearchRec)
18454: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
18455: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
18456: Procedure FindNearest( const KeyValues : array of const)
18457: Procedure FinishContext
18458: Procedure FIRST
18459: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
18460: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
18461: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
18462: Procedure FlushSchemaCache( const TableName : string)
18463: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
18464: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
18465: Procedure Form1Close( Sender : TObject; var Action : TCloseAction)
18466: Procedure FormActivate( Sender : TObject)
18467: procedure FormatIn(const format: String; const args: array of const); //alias
18468: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
18469: Procedure FormCreate( Sender : TObject)
18470: Procedure FormDestroy( Sender : TObject)
18471: Procedure FormKeyPress( Sender : TObject; var Key : Char)
18472: procedure FormOutput1Click(Sender : TObject);
18473: Procedure FormToHTML( Form : TForm; Path : string)
18474: procedure FrameRect(const Rect: TRect);
18475: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
18476: Procedure NotebookHandlesNeeded( Notebook : TNotebook)
18477: Procedure Free( Buffer : TRecordBuffer)
18478: Procedure Free( Buffer : TValueBuffer)
18479: Procedure Free;
18480: Procedure FreeAndNil(var Obj:TObject)
18481: Procedure FreeImage
18482: procedure FreeMem(P: PChar; Size: Integer)
18483: Procedure FreeTreeData( Tree : TUpdateTree)
18484: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
18485: Procedure FullCollapse
18486: Procedure FullExpand

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18487: Procedure GenerateDPB(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
18488: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
18489: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
18490: Procedure Get1( AURL : string; const AResponseContent : TStream);
18491: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
18492: Procedure Get2(const ASourceFile: string;const ACanOverwrite: boolean; AResume: Boolean);
18493: Procedure GetAliasNames( List : TStrings)
18494: Procedure GetAliasParams( const AliasName : string; List : TStrings)
18495: Procedure GetApplicationsRunning( Strings : TStrings)
18496: Procedure getBox(aURL, extension: string);
18497: Procedure GetCommandTypes( List : TWideStrings)
18498: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
18499: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
18500: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
18501: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
18502: Procedure GetDatabaseNames( List : TStrings)
18503: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
18504: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
18505: Procedure GetDir(d: byte; var s: string)
18506: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
18507: Procedure GetDriverNames( List : TStrings)
18508: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
18509: Procedure GetDriverParams( const DriverName : string; List : TStrings)
18510: Procedure GetMails1Click( Sender : TObject)
18511: Procedure getEnvironmentInfo;
18512: Function getEnvironmentString: string;
18513: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
18514: Procedure GetFieldNames( const TableName : string; List : TStrings)
18515: Procedure GetFieldNames( const TableName : string; List : TStrings);
18516: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
18517: Procedure GETFIELDNAMES( LIST : TSTRINGS)
18518: Procedure GetFieldNames1( const TableName : string; List : TStrings);
18519: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
18520: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
18521: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
18522: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
18523: Procedure GetfileAttributeListEx( const Items : TStrings; const Attr : Integer)
18524: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
18525: Procedure GetFormatSettings
18526: Procedure GetFromDIB( var DIB : TBitmapInfo)
18527: Procedure GetFromHDI( HDIB : HBitmap)
18528: // GetGEOMAPX('html',ExePath+'cologne2mapX.html','cathedral_cologne')
18529: Procedure GetGEOMap(C_form,apath: string; const Data: string); //c_form: [html/json/xml]
18530: Procedure GetIcon( Index : Integer; Image : TIcon);
18531: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AIImageType:TImageType);
18532: Procedure GetIndexInfo( IndexName : string)
18533: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
18534: Procedure GetIndexNames( List : TStrings)
18535: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
18536: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
18537: Procedure GetIndexNames4( const TableName : string; List : TStrings);
18538: Procedure GetInternalResponse
18539: Procedure GETITEMNAMES( LIST : TSTRINGS)
18540: procedure GetMem(P: PChar; Size: Integer)
18541: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
18542: procedure GetPackageDescription(ModuleName: PChar): string
18543: Procedure GetPackageNames( List : TStrings);
18544: Procedure GetPackageNames1( List : TWidestrings);
18545: Procedure GetParamList( List : TList; const ParamNames : WideString)
18546: Procedure GetProcedureNames( List : TStrings);
18547: Procedure GetProcedureNames( List : TWideStrings);
18548: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
18549: Procedure GetProcedureNames1( List : TStrings);
18550: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
18551: Procedure GetProcedureNames3( List : TWideStrings);
18552: Procedure GetProcedureNames4( const PackageName : Widestring; List : TWideStrings);
18553: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
18554: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
18555: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
18556: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : Widestring; List : TList);
18557: Procedure GetProviderNames( Names : TWideStrings);
18558: Procedure GetProviderNames( Proc : TGetStrProc)
18559: Procedure GetProviderNames1( Names : TStrings);
18560: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
18561: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;apath:string); //no open image
18562: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const Data:string; aformat:string):TLinearBitmap;
18563: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
18564: Procedure GetSchemaNames( List : TStrings);
18565: Procedure GetSchemaNames1( List : TWideStrings);
18566: Procedure getScriptandRunAsk;
18567: Procedure getScriptandRun(ascript: string);
18568: Procedure getScript(ascript: string); //alias
18569: Procedure getWebScript(ascript: string); //alias
18570: Procedure GetSessionNames( List : TStrings)
18571: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
18572: Procedure GetStrings( List : TStrings)
18573: Procedure GetSystemTime; stdcall;
18574: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings)

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18575: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
18576: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
18577: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
18578: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
18579: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
18580: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
18581: Procedure GetTransitionsOn( cChar : char; oStateList : TList)
18582: Procedure GetVisibleWindows( List : TStrings)
18583: Procedure GoBegin
18584: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
18585: Procedure GotoCurrent( Table : TTable)
18586: procedure GotoEnd1Click(Sender: TObject);
18587: Procedure GotoNearest
18588: Procedure GradientFillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const
Direction:TGradientDirection)
18589: Procedure HandleException( E : Exception; var Handled : Boolean)
18590: procedure HANDLEMESSAGE
18591: procedure HandleNeeded;
18592: Procedure Head( AURL : string)
18593: Procedure Help( var AHelpContents : TStringList; ACommand : String)
18594: Procedure HexToBinary( Stream : TStream)
18595: procedure HexToBinary(Stream:TStream)
18596: Procedure HideDragImage
18597: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
18598: Procedure HideTraybar
18599: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
18600: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); { //3 seconds}
18601: Procedure HookOSExceptions
18602: Procedure HookSignal( RtlSigNum : Integer)
18603: Procedure HSLToRGB( const H, S, L : Single; out R, G, B : Single);
18604: Procedure HTMLSyntax1Click( Sender : TObject)
18605: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPPSPascalCompiler)
18606: Procedure IFPS3ClassesPlugin1ExecImport( Sender : TObject; Exec : TPSEexec; x : TPSRuntimeClassImporter)
18607: Procedure ImportfromClipboard1Click( Sender : TObject)
18608: Procedure ImportfromClipboard2Click( Sender : TObject)
18609: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
18610: procedure Incb(var x: byte);
18611: Procedure Include1Click( Sender : TObject)
18612: Procedure IncludeOFF; //preprocessing
18613: Procedure IncludeON;
18614: procedure Info1Click(Sender: TObject);
18615: Procedure InitAltRecBuffers( CheckModified : Boolean)
18616: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
18617: Procedure InitContext(WebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse)
18618: Procedure InitData( ASource : TDataSet)
18619: Procedure InitDelta( ADelta : TPacketDataSet);
18620: Procedure InitDelta1( const ADelta : OleVariant);
18621: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
18622: Procedure Initialize
18623: procedure InitializePackage(Module: HMODULE)
18624: Procedure INITIACTION
18625: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
18626: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
18627: Procedure InitModule( AModule : TComponent)
18628: Procedure InitStdConvs
18629: Procedure InitTreeData( Tree : TUpdateTree)
18630: Procedure INSERT
18631: Procedure Insert( Index : Integer; AClass : TClass)
18632: Procedure Insert( Index : Integer; AComponent : TComponent)
18633: Procedure Insert( Index : Integer; AObject : TObject)
18634: Procedure Insert( Index : Integer; const S : WideString)
18635: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
18636: Procedure Insert( Index: Integer; const S: string);
18637: procedure Insert( Index: Integer; S: string);
18638: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
18639: procedure InsertComponent(AComponent:TComponent)
18640: procedure InsertControl(AControl: TControl);
18641: Procedure InsertIcon( Index : Integer; Image : TIcon)
18642: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
18643: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
18644: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
18645: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
18646: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
18647: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
18648: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
18649: Procedure InternalBeforeResolve( Tree : TUpdateTree)
18650: Procedure InvalidateModuleCache
18651: Procedure InvalidateTitles
18652: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
18653: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
18654: Procedure InvalidDateTimeError(const AYear,AMth,ADay,AHour,AMin,ASec,AMilSec:Word;const
ABaseDate:TDateTime)
18655: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
18656: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
18657: procedure JavaSyntax1Click(Sender: TObject);
18658: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
18659: Procedure KillDataChannel
18660: Procedure Largefont1Click( Sender : TObject)
18661: Procedure LAST

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18662: Procedure LaunchCpl( FileName : string)
18663: Procedure Launch( const AFile : string)
18664: Procedure LaunchFile( const AFile : string)
18665: Procedure Let fileList( fileList: TStringlist; apath: string);
18666: Procedure lineToNumber( xmemo : String; met : boolean)
18667: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListitem;State:TCustDrawState;var
DefaultDraw:Bool)
18668: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListitem; SubItem : Integer; State
: TCustomDrawState; var DefaultDraw : Boolean)
18669: Procedure ListViewData( Sender : TObject; Item : TListitem)
18670: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
: TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
18671: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
18672: Procedure ListViewDblClick( Sender : TObject)
18673: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
18674: Procedure ListViewExports(const FileName: string; List: TStrings);
18675: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream)
18676: procedure LoadBytecode1Click(Sender: TObject);
18677: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
18678: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
18679: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
18680: Procedure LoadFromFile( AFileName : string)
18681: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
18682: Procedure LoadFromFile( const FileName : string)
18683: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
18684: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
18685: Procedure LoadFromFile( const FileName : WideString)
18686: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
18687: Procedure LoadFromFile(const AFileName: string)
18688: procedure LoadFromFile(FileName: string);
18689: procedure LoadFromFile(FileName:String)
18690: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
18691: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
18692: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
18693: Procedure LoadFromStream( const Stream : TStream)
18694: Procedure LoadFromStream( S : TStream)
18695: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18696: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18697: Procedure LoadFromStream( Stream : TStream)
18698: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOBTYPE : TBLOBTYPE)
18699: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
18700: procedure LoadFromStream(Stream: TStream);
18701: Procedure LoadFromStream( Stream : TSeekableStream; const FormatExt : string);
18702: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
18703: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
18704: Procedure LoadLastFile1Click( Sender : TObject)
18705: { LoadIconToImage loads two icons from resource named NameRes,
18706:   into two image lists ALarge and ASmall}
18707: Procedure LoadIconToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
18708: Procedure LoadMemo
18709: Procedure LoadParamsFromIniFile( FFileName : WideString)
18710: Procedure Lock
18711: Procedure Login
18712: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
18713: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
18714: Procedure MakeCaseInsensitive
18715: Procedure MakeDeterministic( var bChanged : boolean)
18716: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
18717: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
18718: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
18719: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
18720: Procedure SetComplexSoundElements(freqedit,Phaseedit,AmpEdit,WaveGrp:integer);
18721: Procedure SetRectComplexFormatStr( const S : string)
18722: Procedure SetPolarComplexFormatStr( const S : string)
18723: Procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
18724: Procedure MakeVisible
18725: Procedure MakeVisible( PartialOK : Boolean)
18726: Procedure ManualClick( Sender : TObject)
18727: Procedure MarkReachable
18728: Procedure maxBox; //shows the exe version data in a win box
18729: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
18730: Procedure Memo1Change( Sender : TObject)
18731: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var
Action:TSynReplaceAction)
18732: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
18733: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
18734: procedure Memory1Click(Sender: TObject);
18735: Procedure MERGE( MENU : TMAINMENU)
18736: Procedure MergeChangeLog
18737: procedure MINIMIZE
18738: Procedure MinimizeMaxbox;
18739: procedure MyCopyFile(Namel,Name2:string);
18740: Procedure MkDir(const s: string)
18741: Procedure MakeDir(const s: string)';
18742: Procedure ChangeDir(const s: string)';
18743: Function makeFile(const FileName: string): integer)';
18744: Procedure mnuPrintFont1Click( Sender : TObject)
18745: procedure ModalStarted
18746: Procedure Modified

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18747: Procedure ModifyAlias( Name : string; List : TStrings)
18748: Procedure ModifyDriver( Name : string; List : TStrings)
18749: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
18750: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
18751: Procedure Move( CurIndex, NewIndex : Integer)
18752: procedure Move(CurIndex, NewIndex: Integer);
18753: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
18754: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
18755: Procedure moveCube( o : TMyLabel)
18756: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
18757: procedure MoveTo(X, Y: Integer);
18758: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
18759: Procedure MovePoint(var x,y:Extended; const angle:Extended);
18760: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
18761: Procedure Multiplyl( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
18762: Procedure MsgBox(Handle:Int;const Msg.Caption:string;const IcoName:string ='MAINICON';Flags:DWORD=MB_OK);
18763: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
18764: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
18765: procedure New(P: PChar)
18766: procedure New1Click(Sender: TObject);
18767: procedure NewInstance1Click(Sender: TObject);
18768: Procedure NEXT
18769: Procedure NextMonth
18770: Procedure Noop
18771: Procedure NormalizePath( var APath : string)
18772: procedure ObjectBinaryToText(Input, Output: TStream)
18773: procedure ObjectBinaryToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18774: procedure ObjectResourceToText(Input, Output: TStream)
18775: procedure ObjectResourceToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18776: procedure ObjectTextToBinary(Input, Output: TStream)
18777: procedure ObjectTextToBinary1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18778: procedure ObjectTextToResource(Input, Output: TStream)
18779: procedure ObjectTextToResource1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18780: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
18781: Procedure Open( const UserID : WideString; const Password : WideString);
18782: Procedure Open;
18783: Procedure open1Click( Sender : TObject)
18784: Procedure OpenCdDrive
18785: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)
18786: Procedure OpenCurrent
18787: Procedure OpenFile(vfilenamepath: string)
18788: Procedure OpenDirectory1Click( Sender : TObject)
18789: Procedure OpenDir(adir: string);
18790: Procedure OpenIndexFile( const IndexName : string)
18791: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const SchemID:OleVariant;DataSet:TADODataset)
18792: Procedure OpenWriteBuffer( const AThreshold : Integer)
18793: Procedure OptimizeMem
18794: Procedure Options1( AURL : string);
18795: Procedure OutputDebugString(lpOutputString : PChar)
18796: Procedure PackBuffer
18797: Procedure Paint
18798: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean)
18799: Procedure PaintToTBitmap( Target : TBitmap)
18800: Procedure PaletteChanged
18801: Procedure ParentBidiModeChanged
18802: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT)
18803: Procedure PasteFromClipboard;
18804: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer)
18805: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
18806: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
18807: Procedure PError( Text : string)
18808: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18809: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer;X4:Integer;Y4:Integer);
18810: Procedure Play( FromFrame, ToFrame : Word; Count : Integer)
18811: procedure playmp3(mpPath: string);
18812: Procedure PlayMP31Click( Sender : TObject)
18813: Procedure PointCopy( var Dest : TPoint; const Source : TPoint)
18814: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer)
18815: procedure PolyBezier(const Points: array of TPoint);
18816: procedure PolyBezierTo(const Points: array of TPoint);
18817: procedure Polygon(const Points: array of TPoint);
18818: procedure Polyline(const Points: array of TPoint);
18819: Procedure Pop
18820: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU;GROUPS: array of INT; var WIDTHS : array of LONGINT)
18821: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float)
18822: Procedure POPUP( X, Y : INTEGER)
18823: Procedure PopupURL(URL : WideString);
18824: Procedure POST
18825: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream);
18826: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream);
18827: Procedure Post6( AURL : string; const ASource : TIIdMultiPartFormDataStream; AResponseContent : TStream);
18828: Procedure PostUser( const Email, FirstName, LastName : WideString)
18829: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
18830: procedure Pred(X: int64);
18831: Procedure Prepare
18832: Procedure PrepareStatement
18833: Procedure PreProcessXML( AList : TStrings)
18834: Procedure PreventDestruction

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18835: Procedure Print( const Caption : string)
18836: procedure PrintBitmap(aGraphic: TGraphic; Title: string);
18837: procedure printf(const format: String; const args: array of const);
18838: Procedure PrintList(Value: TStringList);
18839: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
18840: Procedure Printout1Click( Sender : TObject)
18841: Procedure ProcessHeaders
18842: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR)
18843: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean);
18844: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean);
18845: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean);
18846: Procedure ProcessMessagesOFF; //application.processmessages
18847: Procedure ProcessMessagesON;
18848: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
18849: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
18850: Procedure Proclist Size is: 3797 /1415
18851: Procedure procMessClick( Sender : TObject)
18852: Procedure PSScriptCompile( Sender : TPSScript)
18853: Procedure PSScriptExecute( Sender : TPSScript)
18854: Procedure PSScriptLine( Sender : TObject)
18855: Procedure Push( ABoundary : string)
18856: procedure PushItem(AItem: Pointer)
18857: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream);
18858: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean);
18859: procedure PutLinuxLines(const Value: string)
18860: Procedure Quit
18861: Procedure RaiseConversionError( const AText : string);
18862: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const);
18863: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string)
18864: procedure RaiseException(Ex: TIFEException; Param: String);
18865: Procedure RaiseExceptionForLastCmdResult;
18866: procedure RaiseLastException;
18867: procedure RaiseException2;
18868: Procedure RaiseException3(const Msg: string);
18869: Procedure RaiseExcept(const Msg: string);
18870: Procedure RaiseLastOSError
18871: Procedure RaiseLastWin32;
18872: procedure RaiseLastWin32Error)
18873: Procedure RaiseListError( const ATemplate : string; const AData : array of const)
18874: Procedure RandomFillStream( Stream : TMemoryStream)
18875: procedure randomize;
18876: Procedure Rasterize( TRasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect)
18877: Procedure RCS
18878: Procedure Read( Socket : TSocket)
18879: Procedure ReadBlobData
18880: procedure ReadBuffer(Buffer:String;Count:LongInt)
18881: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2.readonly:= false;
18882: Procedure ReadSection( const Section : string; Strings : TStrings)
18883: Procedure ReadSections( Strings : TStrings)
18884: Procedure ReadSections( Strings : TStrings);
18885: Procedure ReadSections1( const Section : string; Strings : TStrings);
18886: Procedure ReadSectionValues( const Section : string; Strings : TStrings)
18887: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean)
18888: Procedure ReadStrings( ADest : TStrings; AReadLinesCount : Integer)
18889: Procedure ReadVersion2(aFileName: STRING; aVersion : TStrings);
18890: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
18891: Procedure Realign;
18892: procedure Rectangle(X1, Y1, X2, Y2: Integer);
18893: Procedure Rectangle1( const Rect : TRect);
18894: Procedure RectCopy( var Dest : TRect; const Source : TRect)
18895: Procedure RectFitToScreen( var R : TRect)
18896: Procedure RectGrow( var R : TRect; const Delta : Integer)
18897: Procedure RectGrowX( var R : TRect; const Delta : Integer)
18898: Procedure RectGrowY( var R : TRect; const Delta : Integer)
18899: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer)
18900: Procedure RectMoveTo( var R : TRect; const X, Y : Integer)
18901: Procedure RectNormalize( var R : TRect)
18902: // TFileCallbackProcedure = procedure(filename:string);
18903: Procedure RecurseDirectory(Dir: String;IncludeSubs: boolean;callback: TFileCallbackProcedure);
18904: Procedure RecurseDirectory2(Dir: String; IncludeSubs : boolean);
18905: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
18906: Procedure Refresh;
18907: Procedure RefreshData( Options : TFetchOptions)
18908: Procedure REFRESHLOOKUPLIST
18909: Procedure regExPathfinder(Pathin, fileout, firsttp, aregex, ext: string; asort: boolean);
18910: Procedure RegExPathfinder2(Pathin, fileout, firsttp, aregex, ext: string; asort, acopy: boolean);
18911: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIAuthenticationClass)
18912: Procedure RegisterChanges( Value : TChangeLink)
18913: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass)
18914: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass)
18915: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int)
18916: Procedure ReInitialize( ADelay : Cardinal)
18917: procedure RELEASE
18918: Procedure Remove( const AByteCount : integer)
18919: Procedure REMOVE( FIELD : TFIELD)
18920: Procedure REMOVE( ITEM : TMENUITEM)
18921: Procedure REMOVE( POPUP : TPOPUPMENU)
18922: Procedure RemoveAllPasswords
18923: procedure RemoveComponent(AComponent:TComponent)

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18924: Procedure RemoveDir( const ADirName : string)
18925: Procedure RemoveLambdaTransitions( var bChanged : boolean)
18926: Procedure REMOVEPARAM( VALUE : TPARAM)
18927: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset);
18928: Procedure RemoveTransitionTol( oState : TniRegularExpressionState);
18929: Procedure Rename( const ASourceFile, ADestFile : string)
18930: Procedure Rename( const FileName : string; Reload : Boolean)
18931: Procedure RenameTable( const NewTableName : string)
18932: Procedure Replace( Index : Integer; Image, Mask : TBitmap)
18933: Procedure Replace1Click( Sender : TObject)
18934: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime)
18935: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime))
18936: Procedure ReplaceIcon( Index : Integer; Image : TIcon)
18937: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor)
18938: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime)
18939: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
18940: Procedure Requery( Options : TExecuteOptions)
18941: Procedure Reset
18942: Procedure Reset1Click( Sender : TObject)
18943: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor)
18944: procedure ResourceExplore1Click(Sender: TObject);
18945: Procedure RestoreContents
18946: Procedure RestoreDefaults
18947: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string)
18948: Procedure RetrieveHeaders
18949: Procedure RevertRecord
18950: Procedure RGBAToBGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal)
18951: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18952: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18953: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
18954: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
18955: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer)
18956: Procedure RleCompress2( Stream : TStream)
18957: Procedure RleDecompress2( Stream : TStream)
18958: Procedure RmDir(const S: string)
18959: Procedure Rollback
18960: Procedure Rollback( TransDesc : TTransactionDesc)
18961: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
18962: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)
18963: Procedure RollbackTrans
18964: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
18965: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
18966: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
18967: Procedure RunDll32Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
18968: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
18969: Procedure S_EBox( const AText : string)
18970: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int
18971: Procedure S_IBox( const AText : string)
18972: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
18973: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
18974: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string)
18975: Procedure SampleVarianceAndMean
18976: ( const X : TDynFloatArray; var Variance, Mean : Float)
18977: Procedure Save2Click( Sender : TObject)
18978: Procedure Saveas3Click( Sender : TObject)
18979: Procedure Savebefore1Click( Sender : TObject)
18980: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
18981: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
18982: Procedure SaveConfigFile
18983: Procedure SaveOutput1Click( Sender : TObject)
18984: procedure SaveScreenshotClick(Sender: TObject);
18985: Procedure SaveLn(pathname, content: string); //SaveLn(exepath+'mysavelntest.txt', memo2.text);
18986: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
18987: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
18988: Procedure SaveToFile( AfileName : string)
18989: Procedure SAVETOFILE( const FILENAME : String)
18990: Procedure SaveToFile( const FileName : WideString)
18991: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
18992: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
18993: procedure SaveToFile(FileName: string);
18994: procedure SaveToFile(FileName:String)
18995: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
18996: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18997: Procedure SaveToStream( S : TStream)
18998: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18999: Procedure SaveToStream( Stream : TStream)
19000: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
19001: procedure SaveToStream(Stream: TStream);
19002: procedure SaveToStream(Stream:TStream)
19003: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
19004: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
19005: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
19006: procedure Say(const sText: string)
19007: Procedure SBytecode1Click( Sender : TObject)
19008: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
19009: procedure ScriptExplorer1Click(Sender: TObject);
19010: Procedure Scroll( Distance : Integer)
19011: Procedure Scroll( DX, DY : Integer)

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19012: procedure ScrollBy(DeltaX, DeltaY: Integer);
19013: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
19014: Procedure ScrollTabs( Delta : Integer)
19015: Procedure Search1Click( Sender : TObject)
19016: procedure SearchAndOpenDoc(vfilenamepath: string)
19017: procedure SearchAndOpenFile(vfilenamepath: string)
19018: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
19019: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
19020: Procedure SearchNext1Click( Sender : TObject)
19021: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
19022: Procedure Select1( const Nodes : array of TTreeNode);
19023: Procedure Select2( Nodes : TList);
19024: Procedure SelectNext( Direction : Boolean)
19025: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
19026: Procedure SelfTestPEM //unit uPSI_cPEM
19027: Procedure Send( AMsg : TIdMessage)
19028: //config forst in const MAILINIFILE = 'maildef.ini';
19029: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','');
19030: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19031: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19032: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
19033: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
19034: Procedure SendResponse
19035: Procedure SendStream( AStream : TStream)
19036: Procedure Set8087CW( NewCW : Word)
19037: Procedure SetAll( One, Two, Three, Four : Byte)
19038: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
19039: Procedure SetAppDispatcher( const ADispatcher : TComponent)
19040: procedure SetArrayLength;
19041: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
19042: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
19043: procedure SetArrayLength2String2(arr: T2StringArray; asize1, asize2: integer); //all init
19044: procedure SetArrayLength2Integer2(arr: T2IntegerArray; asize1, asize2: integer);
19045: procedure Set2DimStrArray(var arr: T2StringArray; asize1, asize2: integer);')
19046: procedure Set2DimIntArray(var arr: T2IntegerArray; asize1, asize2: integer);')
19047: procedure Set3DimIntArray(var arr: T3IntegerArray; asize1, asize2, asize3: integer);
19048: procedure Set3DimStrArray(var arr: T3StringArray; asize1, asize2, asize3: integer);
19049: Procedure SetAsHandle( Format : Word; Value : THandle)
19050: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
19051: procedure SetCaptureControl(Control: TControl);
19052: Procedure SetColumnAttributes
19053: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
19054: Procedure SetCustomHeader( const Name, Value : string)
19055: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
  FieldName:Widestring)
19056: Procedure SetFMTBCD( Buffer : TRecordBuffer; value : TBcd)
19057: Procedure SetFocus
19058: procedure SetFocus; virtual;
19059: Procedure SetInitialState
19060: Procedure SetKey
19061: procedure SetLastError(ErrorCode: Integer)
19062: procedure SetLength;
19063: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
19064: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
19065: Procedure SetParams( ADataSet : TDataSet; UpdateKind : TUpdateKind);
19066: procedure SETPARAMS(APosition,AMIN,AMAX:INTEGER)
19067: Procedure SetParams1( UpdateKind : TUpdateKind);
19068: Procedure SetPassword( const Password : string)
19069: Procedure SetPointer( Ptr : Pointer; Size : Longint)
19070: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
19071: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
19072: Procedure SetProvider( Provider : TComponent)
19073: Procedure SetProxy( const Proxy : string)
19074: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
19075: Procedure SetRange( const StartValues, EndValues : array of const)
19076: Procedure SetRangeEnd
19077: Procedure SetRate( const aPercent, aYear : integer)
19078: procedure SetRate(const aPercent, aYear: integer)
19079: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
19080: Procedure SetsafeCallExceptionMsg( Msg : String)
19081: procedure SETSELTEXTBUF(BUFFER:PCHAR)
19082: Procedure SetSize( AWidth, AHeight : Integer)
19083: procedure SetSize(NewSize:LongInt)
19084: procedure SetString(var s: string; buffer: PChar; len: Integer)
19085: Procedure SetStrings( List : TStrings)
19086: Procedure SetText( Text : PwideChar)
19087: procedure SetText(Text: PChar);
19088: Procedure SetTextBuf( Buffer : PChar)
19089: procedure SETTEXTBUF(BUFFER:PCHAR)
19090: Procedure SetTick( Value : Integer)
19091: Procedure SetTimeout( AtimeOut : Integer)
19092: Procedure SetTraceEvent( Event : TDBXTraceEvent)
19093: Procedure SetUserName( const UserName : string)
19094: Procedure SetWallpaper( Path : string);
19095: procedure ShellStyle1Click(Sender: TObject);
19096: Procedure SHORTCUTTOKEY( SHORCUT : TSHORCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
19097: Procedure ShowFileProperties( const FileName : string)
19098: Procedure ShowInclude1Click( Sender : TObject)
19099: Procedure ShowInterfaces1Click( Sender : TObject)

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19100: Procedure ShowLastException1Click( Sender : TObject )
19101: Procedure ShowMessage( const Msg : string )
19102: Procedure ShowMessageBig(const aText : string);
19103: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
19104: Procedure ShowMessageBig3(const aText : string; fsize: byte; aautosize: boolean);
19105: Procedure MsgBig(const aText : string); //alias
19106: procedure showmessage(mytext: string);
19107: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
19108: procedure ShowMessageFmt(const Msg: string; Params: array of const))
19109: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
19110: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
19111: Procedure ShowSearchDialog( const Directory : string)
19112: Procedure ShowSpecChars1Click( Sender : TObject)
19113: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
19114: Procedure ShredFile( const FileName : string; Times : Integer)
19115: procedure Shuffle(vQ: TStringList);
19116: Procedure ShuffleList( var List : array of Integer; Count : Integer)
19117: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
19118: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
19119: Procedure SinCosE( X : Extended; out Sin, Cos : Extended)
19120: Procedure Site( const ACommand : string)
19121: Procedure SkipEOL
19122: Procedure Sleep( ATime : cardinal)
19123: Procedure Sleep( milliseconds : Cardinal)
19124: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
19125: Procedure Slinenumbers1Click( Sender : TObject)
19126: Procedure Sort
19127: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
19128: procedure Speak(const sText: string) //async like voice
19129: procedure Speak2(const sText: string) //sync
19130: procedure Split(Str: string; SubStr: string; List: TStrings);
19131: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
19132: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String)
19133: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String)
19134: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStrings)
19135: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
19136: procedure SQLSyntax1Click(Sender: TObject);
19137: Procedure SRand( Seed : RNG_IntType)
19138: Procedure Start
19139: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
19140: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
19141: //Ex. StartFileFinder3(exepath+'exercices','*.pas','record',false,seclist);
19142: Procedure StartTransaction( TransDesc : TTransactionDesc)
19143: Procedure Status( var AStatusList : TStringList)
19144: Procedure StatusBar1DblClick( Sender : TObject)
19145: Procedure StepIntolClick( Sender : TObject)
19146: Procedure StepIt
19147: Procedure StepOut1Click( Sender : TObject)
19148: Procedure Stop
19149: procedure stopmp3;
19150: procedure StartWeb(aurl: string);
19151: Procedure Str(int: integer; astr: string); //of system
19152: Procedure StrDispose( Str : PChar)
19153: procedure StrDispose(Str: PChar)
19154: Procedure StrReplace(var Str: String; Old, New: String);
19155: Procedure StretchDIBITS( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
19156: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
19157: Procedure StringToBytes( Value : String; Bytes : array of byte)
19158: procedure StrSet(c : Char; I : Integer; var s : String);
19159: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
19160: Procedure StructureMount( APath : String)
19161: procedure STYLECHANGED(SENDER:TOBJECT)
19162: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
19163: procedure Succ(X: int64);
19164: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
19165: procedure SwapChar(var X,Y: char); //swapX follows
19166: Procedure SwapFloats( var X, Y : Float)
19167: procedure SwapGrid(grd: TStringGrid);
19168: Procedure SwapOrd( var I, J : Byte);
19169: Procedure SwapOrd( var X, Y : Integer)
19170: Procedure SwapOrd1( var I, J : Shortint);
19171: Procedure SwapOrd2( var I, J : Smallint);
19172: Procedure SwapOrd3( var I, J : Word);
19173: Procedure SwapOrd4( var I, J : Integer);
19174: Procedure SwapOrd5( var I, J : Cardinal);
19175: Procedure SwapOrd6( var I, J : Int64);
19176: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
19177: Procedure Synchronizel( Method : TMethod);
19178: procedure SyntaxCheck1Click(Sender: TObject);
19179: Procedure SysFreeString(const S: WideString); stdcall;
19180: Procedure TakeOver( Other : TLinearBitmap)
19181: Procedure Talkln(const sText: string) //async voice
19182: procedure tbtn6resClick(Sender: TObject);
19183: Procedure tbtnUseCaseClick( Sender : TObject)
19184: procedure TerminalStyle1Click(Sender: TObject);
19185: Procedure Terminate
19186: Procedure texSyntax1Click( Sender : TObject)
19187: procedure TextOut(X, Y: Integer; Text: string);
19188: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);

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19189: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
19190: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat );
19191: Procedure TextStart
19192: procedure TILE
19193: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
19194: Procedure TitleClick( Column : TColumn )
19195: Procedure ToDo
19196: procedure toolbarTutorialClick(Sender: TObject);
19197: Procedure Trace1( AURL : string; const AResponseContent : TStream);
19198: Procedure TransferMode( ATransferMode : TIIdFTPTTransferMode)
19199: Procedure Truncate
19200: procedure Tutorial101Click(Sender: TObject);
19201: procedure Tutorial10Statistics1Click(Sender: TObject);
19202: procedure Tutorial11Forms1Click(Sender: TObject);
19203: procedure Tutorial12SQL1Click(Sender: TObject);
19204: Procedure tutorial1click( Sender : TObject )
19205: Procedure tutorial21click( Sender : TObject )
19206: Procedure tutorial31click( Sender : TObject )
19207: Procedure tutorial4Click( Sender : TObject )
19208: Procedure Tutorial5Click( Sender : TObject )
19209: procedure Tutorial6Click(Sender: TObject);
19210: procedure Tutorial91Click(Sender: TObject);
19211: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
19212: procedure UniqueString(var str: AnsiString)
19213: procedure UploadLoadPackage(Module: HMODULE)
19214: Procedure Unlock
19215: Procedure UNMERGE( MENU : TMAINMENU)
19216: Procedure UnRegisterChanges( Value : TChangeLink)
19217: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
19218: Procedure UnregisterConversionType( const AType : TConvType)
19219: Procedure UnRegisterProvider( Prov : TCustomProvider)
19220: Procedure UPDATE
19221: Procedure UpdateBatch( AffectRecords : TAffectRecords)
19222: Procedure UPDATECURSORPOS
19223: Procedure UpdateFile
19224: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
19225: Procedure UpdateResponse( AResponse : TWebResponse)
19226: Procedure UpdateScrollBar
19227: Procedure UpdateView1Click( Sender : TObject)
19228: procedure Val(const s: string; var n, z: Integer)
19229: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
19230: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
19231: Procedure VariantAdd( const src : Variant; var dst : Variant)
19232: Procedure VariantAnd( const src : Variant; var dst : Variant)
19233: Procedure VariantArrayRedim( var V : Variant; High : Integer)
19234: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
19235: Procedure VariantClear( var V : Variant)
19236: Procedure VariantCpy( const src : Variant; var dst : Variant)
19237: Procedure VariantDiv( const src : Variant; var dst : Variant)
19238: Procedure VariantMod( const src : Variant; var dst : Variant)
19239: Procedure VariantMul( const src : Variant; var dst : Variant)
19240: Procedure VariantOr( const src : Variant; var dst : Variant)
19241: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer);
19242: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer);
19243: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer);
19244: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer);
19245: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer);
19246: Procedure VariantShl( const src : Variant; var dst : Variant)
19247: Procedure VariantShr( const src : Variant; var dst : Variant)
19248: Procedure VariantSub( const src : Variant; var dst : Variant)
19249: Procedure VariantXor( const src : Variant; var dst : Variant)
19250: Procedure VarCastError;
19251: Procedure VarCastError1( const ASourceType, ADestType : TVarType );
19252: Procedure VarInvalidOp
19253: Procedure VarInvalidNullOp
19254: Procedure VarOverflowError( const ASourceType, ADestType : TVarType )
19255: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType )
19256: Procedure VarArrayCreateError
19257: Procedure VarResultCheck( AResult : HRESULT );
19258: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType );
19259: Procedure HandleConversionException( const ASourceType, ADestType : TVarType )
19260: Function VarTypeAsText( const AType : TVarType ) : string
19261: procedure Voice(const sText: string) //async
19262: procedure Voice2(const sText: string) //sync
19263: Procedure WaitMiliseconds( AMSec : word)
19264: Procedure WaitMS( AMSec : word );
19265: procedure WebCamPic(picname: string); //eg: c:\mypic.png
19266: Procedure WideAppend( var dst : WideString; const src : WideString)
19267: Procedure WideAssign( var dst : WideString; var src : WideString)
19268: Procedure WideDelete( var dst : WideString; index, count : Integer)
19269: Procedure WideFree( var s : WideString)
19270: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
19271: Procedure WideFromPChar( var dst : WideString; src : PChar)
19272: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
19273: Procedure WideSetLength( var dst : WideString; len : Integer)
19274: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
19275: Procedure WidestringToBytes( Value : WideString; Bytes : array of byte)
19276: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
19277: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);

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19278: Procedure HttpGet( const Url: string; Stream:TStream);
19279: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIdBytes; Index : integer)
19280: Procedure WordWrap1Click( Sender : TObject)
19281: Procedure Write( const AOut : string)
19282: Procedure Write( Socket : TSocket)
19283: procedure Write(S: string);
19284: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
19285: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
19286: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
19287: procedure WriteBuffer(Buffer:String;Count:LongInt)
19288: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
19289: Procedure WriteChar( AValue : Char)
19290: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
19291: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
19292: Procedure WriteFloat( const Section, Name : string; Value : Double)
19293: Procedure WriteHeader( AHeader : TStrings)
19294: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
19295: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
19296: Procedure WriteLn( const AOut : string)
19297: procedure Writeln(s: string);
19298: Procedure WriteLog( const FileName, LogLine : string)
19299: Procedure WriteRFCReply( AReply : TIdRFCReply)
19300: Procedure WriteRFCStrings( AStrings : TStrings)
19301: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
19302: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASize:Int)
19303: Procedure WriteString( const Section, Ident, Value : String)
19304: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
19305: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
19306: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
19307: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
19308: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
19309: Procedure WriteDataSetToCSV(DataSet: TDataSet; FileName: String)');
19310: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
19311: procedure XMLSyntax1Click(Sender: TObject);
19312: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
19313: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
19314: Procedure ZeroFillStream( Stream : TMemoryStream)
19315: procedure XMLSyntax1Click(Sender: TObject);
19316: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
19317: procedure(Control: TWInControl; Index: Integer; Rect: TRect; State: Byte)
19318: procedure(Control: TWInControl; Index: Integer; var Height: Integer)
19319: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
19320: procedure(Sender, Source: TObject; X, Y: Integer)
19321: procedure(Sender, Target: TObject; X, Y: Integer)
19322: procedure(Sender: TObject; ASection, AWidth: Integer)
19323: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
19324: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
19325: procedure(Sender: TObject; var Action: TCloseAction)
19326: procedure(Sender: TObject; var CanClose: Boolean)
19327: procedure(Sender: TObject; var Key: Char);
19328: ProcedureName ProcedureNames ProcedureParametersCursor @
19329:
19330: *****Now Constructors constructor *****
19331: Size is: 1248 1115 996 628 550 544 501 459 (381)
19332: Attach( VersionInfoData : Pointer; Size : Integer)
19333: constructor Create( ABuckets : TBucketListSizes)
19334: Create( ACallBackWnd : HWND)
19335: Create( AClient : TCustomTaskDialog)
19336: Create( AClient : TIdTelnet)
19337: Create( ACollection : TCollection)
19338: Create( ACollection : TFavoriteLinkItems)
19339: Create( ACollection : TTaskDialogButtons)
19340: Create( AConnection : TIdCustomHTTP)
19341: Create( ACreatSuspended : Boolean)
19342: Create( ADataSet : TCustomSQLDataSet)
19343: CREATE( ADATASET : TDATASET)
19344: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
19345: Create( AGrid : TCustomDBGrid)
19346: Create( AGrid : TStringGrid; AIndex : Longint)
19347: Create( AHTTP : TIdCustomHTTP)
19348: Create( AListItems : TListItems)
19349: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
19350: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
19351: Create( AOwner : TCommonCalendar)
19352: Create( AOwner : TComponent)
19353: CREATE( AOWNER : TCOMPONENT)
19354: Create( AOwner : TCustomListView)
19355: Create( AOwner : TCustomOutline)
19356: Create( AOwner : TCustomRichEdit)
19357: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
19358: Create( AOwner : TCustomTreeView)
19359: Create( AOwner : TIdUserManager)
19360: Create( AOwner : TListItems)
19361: Create(AOwner:TObj;Handle:hDBCICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvt:TBDECallbkEvt;Chain:Bool)
19362: CREATE( AOWNER : TPERSISTENT)
19363: Create( AOwner : TPersistent)
19364: Create( AOwner : TTable)
19365: Create( AOwner : TTreeNodes)
19366: Create( AOwner : TWinControl; const ClassName : string)

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19367: Create( AParent : TIdCustomHTTP )
19368: Create( AParent : TUpdateTree; AResolver : TCustomResolver )
19369: Create( AProvider : TBaseProvider )
19370: Create( AProvider : TCustomProvider );
19371: Create( AProvider : TDataSetProvider )
19372: Create( ASocket : TCustomWinSocket; TimeOut : Longint )
19373: Create( ASocket : TSocket )
19374: Create( AStrings : TWideStrings )
19375: Create( AToolBar : TToolBar )
19376: Create( ATreeNodes : TTreeNodes )
19377: Create( Autofill : boolean )
19378: Create( AWebPageInfo : TAbstractWebPageInfo )
19379: Create( AWebRequest : TWebRequest )
19380: Create( Collection : TCollection )
19381: Create( Collection : TIdMessageParts; ABody : TStrings )
19382: Create( Collection : TIdMessageParts; const AFileName : TFileName )
19383: Create( Column : TColumn )
19384: Create( const AConvFamily : TConvFamily; const ADescription : string )
19385: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double )
19386: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc )
19387: Create( const AInitialState : Boolean; const AManualReset : Boolean )
19388: Create( const ATabSet : TTabSet )
19389: Create( const Compensate : Boolean )
19390: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64 )
19391: Create( const FileName : string )
19392: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
  : Int64; const SecAttr : PSecurityAttributes );
19393: Create( const FileName : string; FileMode : WordfmShareDenyWrite )
19394: Create( const MaskValue : string )
19395: Create( const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes )
19396: Create( const Prefix : string )
19397: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags )
19398: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags )
19399: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags )
19400: Create( CoolBar : TCoolBar )
19401: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket )
19402: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket )
19403: Create( DataSet : TDataSet; const
  Text:Widestring;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : Widestring;
  DepFields : TBits; FieldMap : TFieldMap )
19404: Create( DBCtrlGrid : TDBCtrlGrid )
19405: Create( DSTableProducer : TDSTableProducer )
19406: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass )
19407: Create( ErrorCode : DBIResult )
19408: Create( Field : TblobField; Mode : TblobStreamMode )
19409: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass )
19410: Create( HeaderControl : TCustomHeaderControl )
19411: Create( HTTPRequest : TWebRequest )
19412: Create( iStart : integer; sText : string )
19413: Create( iValue : Integer )
19414: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind )
19415: Create( MciErrNo : MCIEERROR; const Msg : string )
19416: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
19417: Create( Message : string; ErrorCode : DBResult )
19418: Create( Msg : string )
19419: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception )
19420: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult )
19421: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType )
19422: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags )
19423: Create(oSource:TniRegularExpressionState;oDestination:TniRegularExpression;xCharacts:TCharSet;bLambda:bool)
19424: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar )
19425: Create( Owner : TCustomComboBoxEx )
19426: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXOPTIONS )
19427: Create( Owner : TPersistent )
19428: Create( Params : TStrings )
19429: Create( Size : Cardinal )
19430: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket )
19431: Create( StatusBar : TCustomStatusBar )
19432: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass )
19433: Create(WebResponse : TWebResponse; ItemClass : TCollectionItemClass )
19434: Create(AHandle:Integer)
19435: Create(AOwner: TComponent); virtual;
19436: Create(const AURI : string)
19437: Create(FileName:String;Mode:Word)
19438: Create(Instance:THandle;ResName:String;ResType:PChar)
19439: Create(Stream : TStream)
19440: Create( ADataset : TDataset );
19441: Create( const FileHandle:THandle;const Name:string;Protect:Cardinal;const MaximumSize:Int64;const
  SecAttr:PSecurityAttributes );
19442: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex );
19443: Create2( Other : TObject );
19444: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
19445: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
19446: CreateFmt( MciErrNo : MCIEERROR; const Msg : string; const Args : array of const )
19447: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
19448: CreateLinked( DBCtrlGrid : TDBCtrlGrid )
19449: CREATE(OWNER:TCOMPONENT; Dummy: Integer)
19450: CreateRes( Ident : Integer );

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19451: CreateRes( MciErrNo : MCIERRO; Ident : Integer)
19452: CreateRes( ResStringRec : PResStringRec);
19453: CreateResHelp( Ident : Integer; AHelpContext : Integer);
19454: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
19455: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
19456: CreateSize( AWidth, AHeight : Integer)
19457: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
19458:
19459: -----
19460: unit UPSI_MathMax;
19461: -----
19462: CONSTS
19463: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
19464: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
19465: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
19466: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
19467: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
19468: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
19469: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
19470: PiJ: Float = 3.1415926535897932384626433832795; // PI
19471: PI: Extended = 3.1415926535897932384626433832795;
19472: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
19473: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
19474: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
19475: Sqr2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
19476: Sqr3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
19477: Sqr5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
19478: Sqr10: Float = 3.1622776601683793319988935444327; // Sqrt(10)
19479: SqrPi: Float = 1.772453850905160272981674833411; // Sqrt(PI)
19480: Sqr2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
19481: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
19482: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
19483: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
19484: Ln10: Float = 2.3025850929940456840179914546844; // Ln(10)
19485: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
19486: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
19487: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
19488: LogPi: Float = 0.4971498726941338543512682882909; // Log10(PI)
19489: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
19490: E: Float = 2.718281284590452353602874713527; // Natural constant
19491: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2*PI)/2
19492: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
19493: TwoToPower63: Float = 9223372036854775808.0; // 2^63
19494: GoldenMean: Float = 1.61803398874989484204586834365638; // GoldenMean
19495: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
19496: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
19497: StDelta : Extended = 0.00001; {delta for difference equations}
19498: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
19499: StMaxIterations : Integer = 100; {max attempts for convergence}
19500:
19501: procedure SIRegister_StdConvs(CL: TPSCompiler);
19502: begin
19503:   MetersPerInch = 0.0254; // [1]
19504:   MetersPerFoot = MetersPerInch * 12;
19505:   MetersPerYard = MetersPerFoot * 3;
19506:   MetersPerMile = MetersPerFoot * 5280;
19507:   MetersPerNauticalMiles = 1852;
19508:   MetersPerAstronomicalUnit = 1.49598E11; // [4]
19509:   MetersPerLightSecond = 2.99792458E8; // [5]
19510:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
19511:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
19512:   MetersPerCubit = 0.4572; // [6][?]
19513:   MetersPerFathom = MetersPerFoot * 6;
19514:   MetersPerFurlong = MetersPerYard * 220;
19515:   MetersPerHand = MetersPerInch * 4;
19516:   MetersPerPace = MetersPerInch * 30;
19517:   MetersPerRod = MetersPerFoot * 16.5;
19518:   MetersPerChain = MetersPerRod * 4;
19519:   MetersPerLink = MetersPerChain / 100;
19520:   MetersPerPoint = MetersPerInch * 0.013837; // [7]
19521:   MetersPerPica = MetersPerPoint * 12;
19522:
19523:   SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
19524:   SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
19525:   SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
19526:   SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
19527:   SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
19528:   SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
19529:
19530:   CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
19531:   CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
19532:   CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
19533:   CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
19534:   CubicMetersPerAcresFoot = SquareMetersPerAcre * MetersPerFoot;
19535:   CubicMetersPerAcresInch = SquareMetersPerAcre * MetersPerInch;
19536:   CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
19537:   CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
19538:
19539:   CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]

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19540: CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
19541: CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
19542: CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
19543: CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
19544: CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
19545: CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
19546: CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
19547:
19548: CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
19549: CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
19550: CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
19551: CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
19552: CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
19553: CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
19554:
19555: CubicMetersPerUKGallon = 0.00454609; // [2][7]
19556: CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
19557: CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
19558: CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
19559: CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
19560: CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
19561: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
19562: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
19563: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
19564:
19565: GramsPerPound = 453.59237; // [1][7]
19566: GramsPerDrams = GramsPerPound / 256;
19567: GramsPerGrains = GramsPerPound / 7000;
19568: GramsPerTons = GramsPerPound * 2000;
19569: GramsPerLongTons = GramsPerPound * 2240;
19570: GramsPerOunces = GramsPerPound / 16;
19571: GramsPerStones = GramsPerPound * 14;
19572:
19573: MaxAngle 9223372036854775808.0;
19574: MaxTanhH 5678.2617031470719747459655389854);
19575: MaxFactorial( 1754);
19576: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
19577: MinFloatingPoint',(3.3621031431120935062626778173218E-4932);
19578: MaxTanH( 354.89135644669199842162284618659);
19579: MaxFactorial'LongInt'( 170);
19580: MaxFloatingPointD(1.797693134862315907729305190789E+308);
19581: MinFloatingPointD(2.2250738585072013830902327173324E-308);
19582: MaxTanH( 44.361419555836499802702855773323);
19583: MaxFactorial'LongInt'( 33);
19584: MaxFloatingPointS( 3.4028236692093846346337460743177E+38);
19585: MinFloatingPointS( 1.1754943508222875079687365372222E-38);
19586: PiExt( 3.141592653897932384626433832795);
19587: RatioDegToRad( PiExt / 180.0);
19588: RatioGradToRad( PiExt / 200.0);
19589: RatioDegToGrad( 200.0 / 180.0);
19590: RatioGradToDeg( 180.0 / 200.0);
19591: Crc16PolynomCCITT'LongWord $1021);
19592: Crc16PolynomIBM'LongWord $8005);
19593: Crc16Bits'LongInt'( 16);
19594: Crc16Bytes'LongInt'( 2);
19595: Crc16HighBit'LongWord $8000);
19596: NotCrc16HighBit','LongWord $7FFF);
19597: Crc32PolynomIEEE','LongWord $04C11DB7);
19598: Crc32PolynomCastagnoli','LongWord $1EDC6F41);
19599: Crc32Koopman','LongWord $741B8CD7);
19600: Crc32Bits','LongInt'( 32);
19601: Crc32Bytes','LongInt'( 4);
19602: Crc32HighBit','LongWord $80000000);
19603: NotCrc32HighBit','LongWord $7FFFFFFF);
19604:
19605: MinByte      = Low(Byte);
19606: MaxByte      = High(Byte);
19607: MinWord      = Low(Word);
19608: MaxWord      = High(Word);
19609: MinShortInt = Low(ShortInt);
19610: MaxShortInt = High(ShortInt);
19611: MinSmallInt = Low(SmallInt);
19612: MaxSmallInt = High(SmallInt);
19613: MinLongWord = LongWord(Low(LongWord));
19614: MaxLongWord = LongWord(High(LongWord));
19615: MinLongInt = LongInt(Low(LongInt));
19616: MaxLongInt = LongInt(High(LongInt));
19617: MinInt64   = Int64(Low(Int64));
19618: MaxInt64   = Int64(High(Int64));
19619: MinInteger = Integer(Low(Integer));
19620: MaxInteger = Integer(High(Integer));
19621: MinCardinal= Cardinal(Low(Cardinal));
19622: MaxCardinal= Cardinal(High(Cardinal));
19623: MinNativeUInt= NativeUInt(Low(NativeUInt));
19624: MaxNativeUInt= NativeUInt(High(NativeUInt));
19625: MinNativeInt = NativeInt(Low(NativeInt));
19626: MaxNativeInt = NativeInt(High(NativeInt));
19627: Function CosH( const Z : Float) : Float;
19628: Function SinH( const Z : Float) : Float;

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19629: Function TanH( const Z : Float ) : Float;
19630:
19631:
19632: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
19633: InvLn2      = 1.44269504088896340736; { 1/Ln(2) }
19634: InvLn10     = 0.43429448190325182765; { 1/Ln(10) }
19635: TwoPi       = 6.28318530717958647693; { 2*Pi }
19636: PiDiv2     = 1.57079632679489661923; { Pi/2 }
19637: SqrtPi     = 1.77245385090551602730; { Sqrt(Pi) }
19638: Sqrt2Pi    = 2.50662827463100050242; { Sqrt(2*Pi) }
19639: InvSqrt2Pi = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
19640: LnSqrt2Pi   = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
19641: Ln2PiDiv2  = 0.91893853320467274178; { Ln(2*Pi)/2 }
19642: Sqrt2      = 1.41421356237309504880; { Sqrt(2) }
19643: Sqrt2Div2  = 0.70710678118654752440; { Sqrt(2)/2 }
19644: Gold       = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
19645: CGold     = 0.38196601125010515179; { 2 - GOLD }
19646: MachEp    = 2.220446049250313E-16; { 2^(-52) }
19647: MaxNum     = 1.797693134862315E+308; { 2^1024 }
19648: MinNum     = 2.225073858507202E-308; { 2^(-1022) }
19649: MaxLog     = 709.7827128933840;
19650: MinLog     = -708.3964185322641;
19651: MaxFac     = 170;
19652: MaxGam     = 171.624376956302;
19653: MaxLgm     = 2.556348B+305;
19654: SingleCompareDelta = 1.0E-34;
19655: DoubleCompareDelta = 1.0E-280;
19656: {$IFDEF CLR}
19657: ExtendedCompareDelta = DoubleCompareDelta;
19658: {$ELSE}
19659: ExtendedCompareDelta = 1.0E-4400;
19660: {$ENDIF}
19661: Bytes1KB   = 1024;
19662: Bytes1MB   = 1024 * Bytes1KB;
19663: Bytes1GB   = 1024 * Bytes1MB;
19664: Bytes64KB  = 64 * Bytes1KB;
19665: Bytes64MB  = 64 * Bytes1MB;
19666: Bytes2GB   = 2 * LongWord(Bytes1GB);
19667: clBlack32' , $FF000000 );
19668: clDimGray32' , $FF3F3F3F );
19669: clGray32' , $FFF7F7F7 );
19670: clLightGray32' , $FFBFBFBF );
19671: clWhite32' , $FFFFFFFF );
19672: clMaroon32' , $FF7F0000 );
19673: clGreen32' , $FF007F00 );
19674: clOlive32' , $FF7F7F00 );
19675: clNavy32' , $FF00007F );
19676: clPurple32' , $FF7F007F );
19677: clTeal32' , $FF007F7F );
19678: clRed32' , $FFFF0000 );
19679: clLime32' , $FF00FF00 );
19680: clYellow32' , $FFFFFF00 );
19681: clBlue32' , $FF0000FF );
19682: clFuchsia32' , $FFFF00FF );
19683: clAqua32' , $FF00FFFF );
19684: clAliceBlue32' , $FFFF0F8FF );
19685: clAntiqueWhite32' , $FFFFAEBD7 );
19686: clAquamarine32' , $FF7FFF4 );
19687: clAzure32' , $FFF0FFFF );
19688: clBeige32' , $FFF5F5DC );
19689: clBisque32' , $FFFFE4C4 );
19690: clBlancheAlmond32' , $FFFFEBBCD );
19691: clBlueViolet32' , $FF8A2BE2 );
19692: clBrown32' , $FFA52A2A );
19693: clBurlyWood32' , $FFDEB887 );
19694: clCadetblue32' , $FF5F9EA0 );
19695: clChartReuse32' , $FF7FFF00 );
19696: clChocolate32' , $FFD2691E );
19697: clCoral32' , $FFFF7F50 );
19698: clCornFlowerBlue32' , $FF6495ED );
19699: clCornSilk32' , $FFFFF8DC );
19700: clCrimson32' , $FFDC143C );
19701: clDarkBlue32' , $FF00008B );
19702: clDarkCyan32' , $FF008B8B );
19703: clDarkGoldenRod32' , $FFB8860B );
19704: clDarkGray32' , $FFA9A9A9 );
19705: clDarkGreen32' , $FF006400 );
19706: clDarkGrey32' , $FFA9A9A9 );
19707: clDarkKhaki32' , $FFBD876B );
19708: clDarkMagenta32' , $FF8B008B );
19709: clDarkOliveGreen32' , $FF556B2F );
19710: clDarkOrange32' , $FFFF8C00 );
19711: clDarkOrchid32' , $FF9932CC );
19712: clDarkRed32' , $FF8B0000 );
19713: clDarkSalmon32' , $FFE9967A );
19714: clDarkSeaGreen32' , $FF8FB8C8F );
19715: clDarkSlateBlue32' , $FF483D8B );
19716: clDarkSlateGray32' , $FF2F4F4F );
19717: clDarkSlateGrey32' , $FF2F4F4F );

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19718:    clDarkTurquoise32', $FF00CED1 ));  
19719:    clDarkViolet32', $FFF9400D3 ));  
19720:    clDeepPink32', $FFFF1493 ));  
19721:    clDeepSkyBlue32', $FFF00BFFF ));  
19722:    clDodgerBlue32', $FF1E90FF ));  
19723:    clFireBrick32', $FFB22222 ));  
19724:    clFloralWhite32', $FFFFFFFAFO ));  
19725:    clGainsboro32', $FFDCDCDC ));  
19726:    clGhostWhite32', $FFF8F8FF ));  
19727:    clGold32', $FFFFFD700 ));  
19728:    clGoldenRod32', $FFDAAB20 ));  
19729:    clGreenYellow32', $FFADFF2F ));  
19730:    clGrey32', $FF808080 ));  
19731:    clHoneyDew32', $FFF0FF0 ));  
19732:    clHotPink32', $FFFF69B4 ));  
19733:    clIndianRed32', $FFCD5C5C ));  
19734:    clIndigo32', $FF4B0082 ));  
19735:    clIvory32', $FFFFFFF0 ));  
19736:    clKhaki32', $FFF0E68C ));  
19737:    clLavender32', $FFE6E6FA ));  
19738:    clLavenderBlush32', $FFFFFF0F5 ));  
19739:    clLawnGreen32', $FF7CFC00 ));  
19740:    clLemonChiffon32', $FFFFFFACD ));  
19741:    clLightBlue32', $FFADD8E6 ));  
19742:    clLightCoral32', $FFF08080 ));  
19743:    clLightCyan32', $FFE0FFFF ));  
19744:    clLightGoldenRodYellow32', $FFFFAFAD2 ));  
19745:    clLightGreen32', $FF90EE90 ));  
19746:    clLightGrey32', $FFD3D3D3 ));  
19747:    clLightPink32', $FFFFB6C1 ));  
19748:    clLightSalmon32', $FFFFA07A ));  
19749:    clLightSeagreen32', $FF20B2AA ));  
19750:    clLightSkyblue32', $FF87CEFA ));  
19751:    clLightSlategray32', $FF778899 ));  
19752:    clLightSteelblue32', $FFB0C4DE ));  
19753:    clLightYellow32', $FFFFFFE0 ));  
19754:    clLtGray32', $FFC0C0C0 ));  
19755:    clMedGray32', $FFA0AOA4 ));  
19756:    clDkGray32', $FF808080 ));  
19758:    clMoneyGreen32', $FFC0DC00 ));  
19759:    clLegacySkyBlue32', $FFA6CAF0 ));  
19760:    clCream32', $FFFFFFBF0 ));  
19761:    clLimeGreen32', $FF32CD32 ));  
19762:    clLinen32', $FFFAFOE6 ));  
19763:    clMediumAquamarine32', $FF66CDAA ));  
19764:    clMediumBlue32', $FF0000CD ));  
19765:    clMediumOrchid32', $FFBA55D3 ));  
19766:    clMediumPurple32', $FF9370DB ));  
19767:    clMediumSeaGreen32', $FF3CB371 ));  
19768:    clMediumSlateBlue32', $FF7B68EE ));  
19769:    clMediumSpringGreen32', $FF00FA9A ));  
19770:    clMediumTurquoise32', $FF48D1CC ));  
19771:    clMediumVioletRed32', $FFC71585 ));  
19772:    clMidnightBlue32', $FF191970 ));  
19773:    clMintCream32', $FFFFFFFA ));  
19774:    clMistyRose32', $FFFFE4E1 ));  
19775:    clMoccasin32', $FFFFE4B5 ));  
19776:    clNavajoWhite32', $FFFFDEAD ));  
19777:    clOldLace32', $FFFD5E6 ));  
19778:    clOliveDrab32', $FF6B8E23 ));  
19779:    clOrange32', $FFFA500 ));  
19780:    clOrangeRed32', $FFFF4500 ));  
19781:    clOrchid32', $FFDA70D6 ));  
19782:    clPaleGoldenRod32', $FFEEE8AA ));  
19783:    clPaleGreen32', $FF98FB98 ));  
19784:    clPaleTurquoise32', $FFAFEEEE ));  
19785:    clPaleVioletred32', $FFDB7093 ));  
19786:    clPapayaWhip32', $FFFFEFD5 ));  
19787:    clPeachPuff32', $FFFFDAB9 ));  
19788:    clPeru32', $FFCD853F ));  
19789:    clPlum32', $FFDDA0DD ));  
19790:    clPowderBlue32', $FFB0E0E6 ));  
19791:    clRosyBrown32', $FFBC8F8F ));  
19792:    clRoyalBlue32', $FF4169E1 ));  
19793:    clSaddleBrown32', $FF8B4513 ));  
19794:    clSalmon32', $FFFA8072 ));  
19795:    clSandyBrown32', $FFF4A460 ));  
19796:    clSeaGreen32', $FF2E8B57 ));  
19797:    clSeaShell32', $FFFFFF5EE ));  
19798:    clSienna32', $FFA0522D ));  
19799:    clSilver32', $FFC0C0C0 ));  
19800:    clSkyblue32', $FF87CEEB ));  
19801:    clSlateBlue32', $FF6A5ACD ));  
19802:    clSlateGray32', $FF708090 ));  
19803:    clSlateGrey32', $FF708090 ));  
19804:    clSnow32', $FFFFFFFAFA ));  
19805:    clSpringgreen32', $FF00FF7F ));  
19806:    clSteelblue32', $FF4682B4 ));
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19807:     clTan32', $FFD2B48C ));
19808:     clThistle32', $FFD8BFD8 ));
19809:     clTomato32', $FFFF6347 ));
19810:     clTurquoise32', $FF40E0D0 ));
19811:     clViolet32', $FFEE82EE ));
19812:     clWheat32', $FFF5DEB3 ));
19813:     clWhitesmoke32', $FFF5F5F5 ));
19814:     clYellowgreen32', $FF9ACD32 ));
19815:     clTrWhite32', $7FFFFFFF ));
19816:     clTrBlack32', $7F000000 ));
19817:     clTrRed32', $7FFF0000 ));
19818:     clTrGreen32', $7F00FF00 ));
19819:     clTrBlue32', $7F0000FF ));
19820: // Fixed point math constants
19821: FixedOne = $10000; FixedHalf = $7FFF;
19822: FixedPI = Round(PI * FixedOne);
19823: FixedToFloat = 1/FixedOne;
19824:
19825: Special Types
19826: ****
19827: type Complex = record
19828:   X, Y : Float;
19829: end;
19830: type TVector      = array of Float;
19831: TIntVector    = array of Integer;
19832: TCompVector   = array of Complex;
19833: TBoolVector   = array of Boolean;
19834: TStringVector = array of String;
19835: TMatrix       = array of TVector;
19836: TIntMatrix    = array of TIntVector;
19837: TCompMatrix   = array of TCompVector;
19838: TBoolMatrix   = array of TBoolVector;
19839: TStringMatrix = array of TString;
19840: TByteArray    = array[0..32767] of byte;
19841: THexArray     = array [0..15] of Char; // = '0123456789ABCDEF';
19842: TBitmapStyle  = (bsNormal, bsCentered, bsStretched);
19843: T2StringArray = array of array of string;
19844: T2IntegerArray= array of array of integer;
19845: AddTypes('INT_PTR', 'Integer');
19846: AddTypes('LONG_PTR', 'Integer');
19847: AddTypes('UINT_PTR', 'Cardinal');
19848: AddTypeS('ULONG_PTR', 'Cardinal');
19849: AddTypeS('DWORD_PTR', 'ULONG_PTR');
19850: TIntegerDynArray', 'array of Integer;
19851: TCardinalDynArray', 'array of Cardinal;
19852: TWordDynArray', 'array of Word;
19853: TSmallIntDynArray', 'array of SmallInt;
19854: TByteDynArray', 'array of Byte;
19855: TShortIntDynArray', 'array of ShortInt;
19856: TInt64DynArray', 'array of Int64;
19857: TLongWordDynArray', 'array of LongWord;
19858: TSingleDynArray', 'array of Single;
19859: TDoubleDynArray', 'array of Double;
19860: TBooleanDynArray', 'array of Boolean;
19861: TStringDynArray', 'array of string;
19862: TWideStringDynArray', 'array of WideString;
19863: TDynByteArray  = array of Byte;
19864: TDynShortintArray = array of Shortint;
19865: TDynSmallintArray = array of Smallint;
19866: TDynWordArray   = array of Word;
19867: TDynIntegerArray = array of Integer;
19868: TDynLongintArray = array of Longint;
19869: TDynCardinalArray = array of Cardinal;
19870: TDynInt64Array   = array of Int64;
19871: TDynExtendedArray = array of Extended;
19872: TDynDoubleArray  = array of Double;
19873: TDynSingleArray   = array of Single;
19874: TDynFloatArray   = array of Float;
19875: TDynPointerArray = array of Pointer;
19876: TDynStringArray  = array of string;
19877: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
19878:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
19879: TSynSearchOptions = set of TSynSearchOption;
19880:
19881:
19882: /* Project : Base Include RunTime Lib for maXbox *Name: pas_includebox.inc
19883: -----
19884: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
19885: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
19886: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
19887: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
19888: function CheckStringSum(vstring: string): integer;
19889: function HexToInt(HexNum: string): LongInt;
19890: function IntToBin(Int: Integer): String;
19891: function BinToInt(Binary: String): Integer;
19892: function HexToBin(HexNum: string): string; external2;
19893: function BinToHex(Binary: String): string;
19894: function IntToFloat(i: Integer): double;
19895: function AddThousandSeparator(S: string; myChr: Char): string;

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19896: function Max3(const X,Y,Z: Integer): Integer;
19897: procedure Swap(var X,Y: char); // faster without inline
19898: procedure ReverseString(var S: String);
19899: function CharToHexStr(Value: Char): string;
19900: function CharToUniCode(Value: Char): string;
19901: function Hex2Dec(Value: Str002): Byte;
19902: function HexStrCodeToStr(Value: string): string;
19903: function HexToStr(1: integer; value: string): string;
19904: function UniCodeToStr(Value: string): string;
19905: function CRC16(statement: string): string;
19906: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
19907: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
19908: procedure SearchAndCopy(aStrlist: TStrings; aSearchStr, aNewStr: string; offset: integer);
19909: Procedure ExecuteCommand(executeFile, paramstring: string);
19910: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
19911: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
19912: procedure SearchAndOpenDoc(vfilenamepath: string);
19913: procedure ShowInterfaces(myFile: string);
19914: function Fact2(av: integer): extended;
19915: Function BoolToStr(B: Boolean): string;
19916: Function GCD(x, y : LongInt) : LongInt;
19917: function LCM(m,n: longint): longint;
19918: function GetASCII: string;
19919: function GetItemHeight(Font: TFont): Integer;
19920: function myPlaySound(s: pchar; flag, syncflag: integer): boolean;
19921: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
19922: function getHINSTANCE: longword;
19923: function getHMODULE: longword;
19924: function GetASCII: string;
19925: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
19926: function WordIsOk(const AWord: string; var VW: Word): boolean;
19927: function TwentyFourBitValueIsOk(const AValue: string; var VI: Integer): boolean;
19928: function LongIsOk(const Along: string; var VC: Cardinal): boolean;
19929: function SafeStr(const s: string): string;
19930: function ExtractUrlPath(const FileName: string): string;
19931: function ExtractUrlName(const FileName: string): string;
19932: function IsInternet: boolean;
19933: function RotateLeft1Bit_u32( Value: uint32): uint32;
19934: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int;var LF:TStLinEst; ErrorStats: Bool);
19935: procedure getEnvironmentInfo;
19936: procedure AntiFreeze;
19937: function GetCPUSpeed: Double;
19938: function IsVirtualPcGuest : Boolean;
19939: function IsVmWareGuest : Boolean;
19940: procedure StartSerialDialog;
19941: function IsWoW64: boolean;
19942: function IsWow64String(var s: string): Boolean;
19943: procedure StartThreadDemo;
19944: Function RGB(R,G,B: Byte): TColor;
19945: Function Sendin(amess: string): boolean;
19946: Procedure maxbox;
19947: Function AspectRatio(aWidth, aHeight: Integer): String;
19948: function wget(aURL, afile: string): boolean;
19949: procedure PrintList(Value: TStringList);
19950: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
19951: procedure getEnvironmentInfo;
19952: procedure AntiFreeze;
19953: function getBitmap(apath: string): TBitmap;
19954: procedure ShowMessageBig(const aText : string);
19955: function YesNoDialog(const ACaption, AMsg: string): boolean;
19956: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
19957: procedure SetLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
19958: //function myStrToBytes(const Value: String): TBytes;
19959: //function myBytesToStr(const Value: TBytes): String;
19960: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
19961: function getBitmap(apath: string): TBitmap;
19962: procedure ShowMessageBig(const aText : string);
19963: Function StrToBytes(const Value: String): TBytes;
19964: Function BytesToStr(const Value: TBytes): String;
19965: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
19966: function ReversedDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
19967: function FindInPaths(const fileName, paths : String) : String;
19968: procedure initHexArray(var hexn: THexArray);
19969: function josephusG(n,k: integer; var graphout: string): integer;
19970: function isPowerof2(num: int64): boolean;
19971: function powerOf2(exponent: integer): int64;
19972: function getBigPI: string;
19973: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
19974: function GetASCIILine: string;
19975: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
19976: pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
19977: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
19978: procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
19979: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
19980: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
19981: function isKeypressed: boolean;
19982: function Keypress: boolean;

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19983: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
19984: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
19985: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
19986: function GetOSName: string;
19987: function GetOSVersion: string;
19988: function GetOSNumber: string;
19989: function getEnvironmentString: string;
19990: procedure StrReplace(var Str: String; Old, New: String);
19991: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19992: function getTeamViewerID: string;
19993: Procedure RecurseDirectory(Dir: String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
19994: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
19995: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
19996: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
19997: function StartSocketService: Boolean;
19998: procedure StartSocketServiceForm;
19999: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
20000: function GetFileList1(apath: string): TStringlist;
20001: procedure LetfileList(FileList: TStringlist; apath: string);
20002: procedure StartWeb(aurl: string);
20003: function GetTodayFiles(startdir, amask: string): TStringlist;
20004: function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
20005: function JavahashCode(val: string): Integer;
20006: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
20007: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
20008: Procedure HideWindowForSeconds(secs: integer); //3 seconds
20009: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); //3 seconds
20010: Procedure ConvertToGray(Cnv: TCanvas);
20011: function GetFileDate(aFile:string; aWithTime:Boolean):string;
20012: procedure ShowMemory;
20013: function ShowMemory2: string;
20014: function getHostIP: string;
20015: procedure ShowBitmap(bmap: TBitmap);
20016: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
20017: function CreateDBGridForm(dblist: TStringList): TListbox;
20018: function isService: boolean;
20019: function isApplication: boolean;
20020: function isTerminalSession: boolean;
20021:
20022:
20023: // News of 3.9.8 up
20024: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
20025: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
20026: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
20027: JvChart - TJvChart Component - 2009 Public
20028: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
20029: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
20030: TAoQuery.SQL.Add() fixed, ShLwAPI extensions, Indy HTTPHeader Extensions
20031: DMath DLL included incl. Demos
20032: Interface Navigator menu/View/Intf Navigator
20033: Unit Explorer menu/Debug/Units Explorer
20034: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maXcel
20035: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
20036: Script History to 9 Files WebServer light /Options/Addons/WebServer
20037: Full Text Finder, JVSimLogic Simulator Package
20038: Halt-Stop Program in Menu, WebServer2, Stop Event ,
20039: Conversion Routines, Prebuild Forms, CodeSearch
20040: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
20041: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
20042: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
20043: JvChart - TJvChart Component - 2009 Public, mXGames, JvgXMLSerializer, TJvPaintFX
20044: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
20045: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
20046: IDE Reflection API, Session Service Shell S3
20047: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
20048: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
20049: arduino map() function, PRandom Generator
20050: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
20051: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
20052: REST Test Lib, Multilang Component, Forth Interpreter
20053: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
20054: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
20055: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
20056: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
20057: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
20058: QRCode Service, add more CFunctions like CDateTime of Synapse
20059: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
20060: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
20061: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
20062: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
20063: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
20064: BOLD Package, Indy Package5, maTRIx, MATHEMAX
20065: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
20066: emax layers: system-package-component-unit-class-function-block
20067: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
20068: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
20069: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
20070: OpenGL Game Demo: ..Options/Add Ons/Reversi
20071: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)

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20072: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
20073: 7% performance gain (hot spot profiling)
20074: PEP -Pascal Education Program, GSM Module, CGI, PHP Runner
20075: add 42 + 22 (64 units), memcached database, autoboomark, Alcinoe PAC, IPC Lib
20076: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
20077: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools, Zeus
20078:
20079: add routines in 3.9.7.5
20080: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEexec);
20081: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEexec);
20082: 069: procedure RIRegister_IdStrings_Routines(S: TPSEexec);
20083: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEexec);
20084: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEexec);
20085: 374: procedure RIRegister_SerDlgls_Routines(S: TPSEexec);
20086: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEexec);
20087:
20088: ////////////////////////////////////////////////////////////////// TestUnits //////////////////////////////////////////////////////////////////
20089: SelftestPEM;
20090: SelfTestCFundamentUtils;
20091: SelfTestCFileUtils;
20092: SelfTestCDatetime;
20093: SelfTestCTimer;
20094: SelfTestCRandom;
20095: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter'
20096:           Assert(WinPathToUnixPath('\c\d.f') = '/c/d.f', 'WinPathToUnixPath'
20097:
20098: // Note: There's no need for installing a client certificate in the
20099: // webbrowser. The server asks the webbrowser to send a certificate but
20100: // if nothing is installed the software will work because the server
20101: // doesn't check to see if a client certificate was supplied. If you want you can install:
20102: // file: c_cacert.p12 password: c_cakey
20103:
20104: TGraphicControl = class(TControl)
20105: private
20106:   FCanvas: TCanvas;
20107:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
20108: protected
20109:   procedure Paint; virtual;
20110:   property Canvas: TCanvas read FCanvas;
20111: public
20112:   constructor Create(AOwner: TComponent); override;
20113:   destructor Destroy; override;
20114: end;
20115:
20116: TCustomControl = class(TWinControl)
20117: private
20118:   FCanvas: TCanvas;
20119:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
20120: protected
20121:   procedure Paint; virtual;
20122:   procedure PaintWindow(DC: HDC); override;
20123:   property Canvas: TCanvas read FCanvas;
20124: public
20125:   constructor Create(AOwner: TComponent); override;
20126:   destructor Destroy; override;
20127: end;
20128: RegisterPublishedProperties;
20129: ('ONCHANGE', 'TNotifyEvent', iptrw);
20130: ('ONCLICK', 'TNotifyEvent', iptrw);
20131: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
20132: ('ONENTER', 'TNotifyEvent', iptrw);
20133: ('ONEVENT', 'TNotifyEvent', iptrw);
20134: ('ONKEYDOWN', 'TKeyEvent', iptrw);
20135: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
20136: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
20137: ('ONMOUSEMOVE', 'TMouseEvent', iptrw);
20138: ('ONMOUSEUP', 'TMouseEvent', iptrw);
20139: //*****
20140: // To stop the while loop, click on Options/Show Include (boolean switch) !
20141: Control a loop in a script with a form event:
20142: IncludeON; //control the while loop
20143: while maxform1.ShowInclude1.checked do begin //menu event Options/Show Include
20144: repeat {for it:= 1 to n do} until is keypressed //keypress in output window below (memo2)
20145:
20146: //-----
20147: //*****mX4 ini-file Configuration*****
20148: //-----
20149: using config file maxboxdef.ini      menu/Help/Config File
20150:
20151: //*** Definitions for maxbox mX3 ***
20152: [FORM]
20153: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
20154: FONTSIZE=14
20155: EXTENSION=txt
20156: SCREENX=1386
20157: SCREENY=1077
20158: MEMHEIGHT=350
20159: PRINTFONT=Courier New //GUI Settings
20160: LINENUMBERS=Y //line numbers at gutter in editor at left side

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20161: EXCEPTIONLOG=Y //store excepts + success in 2 log files see below! -menu Debug>Show Last Exceptions
20162: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
20163: BOOTSCRIPT=Y //enabling load a boot script
20164: MEMORYREPORT=Y //shows memory report on closing maXbox
20165: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
20166: NAVIGATOR=N //shows function list at the right side of editor
20167: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
20168: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
20169: [ WEB ]
20170: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
20171: IPHOST=192.168.1.53
20172: ROOTCERT=filepathY
20173: SCERT=filepathY
20174: RSAKEY=filepathY
20175: VERSIONCHECK=Y
20176:
20177: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
20178: Also possible to set report memory in script to override ini setting
20179: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
20180:
20181: After Change the ini file you can reload the file with ..../Help/Config Update
20182:
20183: //-----
20184: //*****mX4 maildef.ini ini-file Configuration*****
20185: //-----
20186: //*** Definitions for maXMail ***
20187: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
20188: [ MAXMAIL ]
20189: HOST=gmail.softwareschule.ch
20190: USER=mailusername
20191: PASS=password
20192: PORT=110
20193: SSL=Y
20194: BODY=Y
20195: LAST=5
20196:
20197: ADO Connection String:
20198: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
20199: \452_dbtreeview2access.txt
20200: program TestDbTreeViewMainForm2_ACCESS;
20201:   ConnectionString='Provider=Microsoft.Jet.OLEDB.4.0;Data Source='
20202:           +Exepath+'\examples\detail.mdb;Persist Security Info=False';
20203:
20204: OpenSSL Lib: unit ssl_openssl_lib;
20205: {$IFDEF CIL}
20206: const
20207: {$IFDEF LINUX}
20208: DLLSSLName = 'libssl.so';
20209: DLLUtilName = 'libcrypto.so';
20210: {$ELSE}
20211: DLLSSLName = 'ssleay32.dll';
20212: DLLUtilName = 'libeay32.dll';
20213: {$ENDIF}
20214: {$ELSE}
20215: var
20216: {$IFNDEF MSWNTDOS}
20217: {$IFDEF DARWIN}
20218: DLLSSLName: string = 'libssl.dylib';
20219: DLLUtilName: string = 'libcrypto.dylib';
20220: {$ELSE}
20221: DLLSSLName: string = 'libssl.so';
20222: DLLUtilName: string = 'libcrypto.so';
20223: {$ENDIF}
20224: {$ELSE}
20225: DLLSSLName: string = 'ssleay32.dll';
20226: DLLSSLName2: string = 'libssl32.dll';
20227: DLLUtilName: string = 'libeay32.dll';
20228: {$ENDIF}
20229: {$ENDIF}
20230:
20231:
20232: //-----
20233: //*****mX4 Macro Tags *****
20234: //-----
20235:
20236: asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
20237:
20238: //Tag Macros
20239:
20240: asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
20241:
20242: //Tag Macros
20243: 10188: SearchAndCopy(memol.lines, '#name', getUserNameWin, 11);
20244: 10189: SearchAndCopy(memol.lines, '#date', datetimetoStr(now), 11);
20245: 10190: SearchAndCopy(memol.lines, '#host', getComputernameWin, 11);
20246: 10191: SearchAndCopy(memol.lines, '#path', fpath, 11);
20247: 10192: SearchAndCopy(memol.lines, '#file', fname, 11);
20248: 10199: SearchAndCopy(memol.lines, '#files', fname +' '+SHA1(Act_Filename), 11);

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20249: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
20250: 10194: SearchAndCopy(memo1.lines, '#perf', perfTime, 11);
20251: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
20252:     [getUserNameWin, getComputerNameWin, datetimetoStr(now),
20253: 10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s: %s %s',
20254: 10197: [getUserNameWin, getComputerNameWin, datetimetoStr(now), Act_Filename], 11);
20255: [getUserNameWin, getComputerNameWin, datetimetoStr(now), Act_Filename], 11);
20256: 10198: SearchAndCopy(memo1.lines, '#tech', Format('perf: %s threads: %d %s %s',
20257: [perfTime, numProcessThreads, getAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
20258: 10298: SearchAndCopy(memo1.lines, '#net', Format('DNS: %s; local IPs: %s; local IP: %s',
20259: [getDNS, GetLocalIPs, getAddress(getComputerNameWin)]), 10);
20260:
20261: //##tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
20262:
20263: //Replace Macros
20264: SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
20265: SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
20266: SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
20267: SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPath, 9);
20268: SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
20269: SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+'Source', 8);
20270:
20271: SearchAndCopy(memo1.lines, '#tech'perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
20272: [perfTime, numProcessThreads, getAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
20273: //##tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
20274: SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt
20275:
20276: -----
20277: //*****mX4 ToDo List Tags ..\Help\ToDo List*****
20278: -----
20279:
20280: while I < sl.Count do begin
20281: //    if MatchesMask(sl[I], '*/? TODO ([a-zA-Z_]*#[1-9#]*:*)' ) then
20282:        if MatchesMask(sl[I], '*/? TODO (?*#?#)*:*)' ) then
20283:            BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
20284:        else if MatchesMask(sl[I], '*/? DONE (?*#?#)*:*)' ) then
20285:            BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
20286:        else if MatchesMask(sl[I], '*/? TODO (#?#)*:*)' ) then
20287:            BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
20288:        else if MatchesMask(sl[I], '*/? DONE (#?#)*:*)' ) then
20289:            BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
20290:        else if MatchesMask(sl[I], '*/?*TODO*:*)' ) then
20291:            BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
20292:        else if MatchesMask(sl[I], '*/?*DONE*:*)' ) then
20293:            BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
20294:        Inc(I);
20295:    end;
20296:
20297: -----
20298: //*****mX4 Public Tools API *****
20299: //-----
20300: file : unit uPSI_fMain.pas;           {$SOTAP} Open Tools API Catalog
20301: // Those functions concern the editor and preprocessor, all of the IDE
20302: Example: Call it with maxForm1.InfoClick(self)
20303: Note: Call all Methods with maxForm1., e.g.:
20304:         maxForm1.ShellStyle1Click(self);
20305:
20306: procedure SIRegister_fMain(CL: TPSPascalCompiler);
20307: begin
20308: Const ('BYTECODE','String 'bytecode.txt'
20309: Const ('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT)'
20310: Const ('PSMODEL','String PS Modelfiles (*.uc)|*.UC'
20311: Const ('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS'
20312: Const ('PSINC','String PS Includes (*.inc)|*.INC'
20313: Const ('DEFFILENAME','String 'firstdemo.txt'
20314: Const ('DEFINIFILE','String 'maxboxdef.ini'
20315: Const ('EXCEPTLOGFILE','String 'maxboxerrorlog.txt'
20316: Const ('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt'
20317: Const ('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf'
20318: Const ('ALLOBJECTSLIST','String 'docs\VCL.pdf'
20319: Const ('ALLRESOURCELIST','String 'docs\upsi_allresourceList.txt'
20320: Const ('ALLUNITLIST','String 'docs\maxbox3_9.xml')
20321: Const ('INCLUDEBOX','String 'pas_includebox.inc'
20322: Const ('BOOTSCRIPT','String 'maxbootscript.txt'
20323: Const ('MBVERSION','String '3.9.9.100
20324: Const ('VERSION','String '3.9.9.100
20325: Const ('MBVER','String '399
20326: Const ('MBVER1','Integer'(399);
20327: Const ('MBVER1L','Integer'(399100);
20328: Const ('EXENAME','String 'maxBox3.exe
20329: Const ('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm'
20330: Const ('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt'
20331: Const ('MXVERSIONFILE2','String 'http://www.softwareschule.ch/maxvfile2.txt'
20332: Const ('MXINTERNETCHECK','String 'www.ask.com
20333: Const ('MXMAIL','String 'max@kleiner.com
20334: Const ('TAB','Char #'$09);
20335: Const ('CODECOMPLETION','String 'bds_delphi.dci
20336: SIRegister_TMaxForm1(CL);
20337: end;

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20338:  
20339: with FindClass('TForm'), 'TMaxForm1') do begin  
20340:   memo2', 'TMemo', iptrw);  
20341:   memo1', 'TSynMemo', iptrw);  
20342:   CB1SCList', 'TComboBox', iptrw);  
20343:   mxNavigator', 'TComboBox', iptrw);  
20344:   IPHost', 'string', iptrw);  
20345:   IPPort', 'integer', iptrw);  
20346:   COMPort', 'integer', iptrw); //3.9.6.4  
20347:   Splitter1', 'TSplitter', iptrw);  
20348:   PSScript', 'TPSScript', iptrw);  
20349:   PS3DllPlugin', 'TPSDllPlugin', iptrw);  
20350:   MainMenul', 'TMainMenu', iptrw);  
20351:   Programl', 'TMenuItem', iptrw);  
20352:   Compilel', 'TMenuItem', iptrw);  
20353:   Files1', 'TMenuItem', iptrw);  
20354:   open1', 'TMenuItem', iptrw);  
20355:   Save2', 'TMenuItem', iptrw);  
20356:   Options1', 'TMenuItem', iptrw);  
20357:   Savebefore1', 'TMenuItem', iptrw);  
20358:   Largefont1', 'TMenuItem', iptrw);  
20359:   sBytecode1', 'TMenuItem', iptrw);  
20360:   Saveas3', 'TMenuItem', iptrw);  
20361:   Clear1', 'TMenuItem', iptrw);  
20362:   Slinenumbers1', 'TMenuItem', iptrw);  
20363:   About1', 'TMenuItem', iptrw);  
20364:   Search1', 'TMenuItem', iptrw);  
20365:   SynPasSyn1', 'TSynPasSyn', iptrw);  
20366:   memo1', 'TSynMemo', iptrw);  
20367:   SynEditSearch1', 'TSynEditSearch', iptrw);  
20368:   WordWrap1', 'TMenuItem', iptrw);  
20369:   XPMManifest1', 'TXPMManifest', iptrw);  
20370:   SearchNext1', 'TMenuItem', iptrw);  
20371:   Replace1', 'TMenuItem', iptrw);  
20372:   PSImport_Controls1', 'TPSImport_Controls', iptrw);  
20373:   PSImport_Classes1', 'TPSImport_Classes', iptrw);  
20374:   ShowInclude1', 'TMenuItem', iptrw);  
20375:   SynEditPrint1', 'TSynEditPrint', iptrw);  
20376:   Printout1', 'TMenuItem', iptrw);  
20377:   mnPrintColors1', 'TMenuItem', iptrw);  
20378:   dlgFilePrint', 'TPrintDialog', iptrw);  
20379:   dlgPrintFont1', 'TFontDialog', iptrw);  
20380:   mnuPrintFont1', 'TMenuItem', iptrw);  
20381:   Include1', 'TMenuItem', iptrw);  
20382:   CodeCompletionList1', 'TMenuItem', iptrw);  
20383:   IncludeList1', 'TMenuItem', iptrw);  
20384:   ImageList1', 'TImageList', iptrw);  
20385:   ImageList2', 'TImageList', iptrw);  
20386:   CoolBar1', 'TCoolBar', iptrw);  
20387:   ToolBar1', 'TToolBar', iptrw);  
20388:   tbtnLoad', 'TToolButton', iptrw);  
20389:   ToolButton2', 'TToolButton', iptrw);  
20390:   tbtnFind', 'TToolButton', iptrw);  
20391:   tbtnCompile', 'TToolButton', iptrw);  
20392:   tbtnTrans', 'TToolButton', iptrw);  
20393:   tbtnUseCase', 'TToolbutton', iptrw); //3.8  
20394:   toolbtnTutorial', 'TToolButton', iptrw);  
20395:   tbtn6res', 'TToolButton', iptrw);  
20396:   ToolButton5', 'TToolButton', iptrw);  
20397:   ToolButton1', 'TToolButton', iptrw);  
20398:   ToolButton3', 'TToolButton', iptrw);  
20399:   statusBar1', 'TStatusBar', iptrw);  
20400:   SaveOutput1', 'TMenuItem', iptrw);  
20401:   ExportClipboard1', 'TMenuItem', iptrw);  
20402:   Close1', 'TMenuItem', iptrw);  
20403:   Manuall', 'TMenuItem', iptrw);  
20404:   About2', 'TMenuItem', iptrw);  
20405:   loadLastfile1', 'TMenuItem', iptrw);  
20406:   imglogo', 'TImage', iptrw);  
20407:   cedebug', 'TPSScriptDebugger', iptrw);  
20408:   debugPopupMenu1', 'TPopupMenu', iptrw);  
20409:   BreakPointMenu', 'TMenuItem', iptrw);  
20410:   Decompile1', 'TMenuItem', iptrw);  
20411:   StepInto1', 'TMenuItem', iptrw);  
20412:   StepOut1', 'TMenuItem', iptrw);  
20413:   Reset1', 'TMenuItem', iptrw);  
20414:   DebugRun1', 'TMenuItem', iptrw);  
20415:   PSImport_ComObj1', 'TPSImport_ComObj', iptrw);  
20416:   PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);  
20417:   PSImport_Forms1', 'TPSImport_Forms', iptrw);  
20418:   PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);  
20419:   tutorial4', 'TMenuItem', iptrw);  
20420:   ExporttoClipboard1', 'TMenuItem', iptrw);  
20421:   ImportfromClipboard1', 'TMenuItem', iptrw);  
20422:   N4', 'TMenuItem', iptrw);  
20423:   N5', 'TMenuItem', iptrw);  
20424:   N6', 'TMenuItem', iptrw);  
20425:   ImportfromClipboard2', 'TMenuItem', iptrw);  
20426:   tutorial1', 'TMenuItem', iptrw);
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20427: N7', 'TMenuItem', iptrw);
20428: ShowSpecChars1', 'TMenuItem', iptrw);
20429: OpenDirectory1', 'TMenuItem', iptrw);
20430: procMess', 'TMenuItem', iptrw);
20431: btnUseCase', 'TToolButton', iptrw);
20432: ToolButton7', 'TToolButton', iptrw);
20433: EditFont1', 'TMenuItem', iptrw);
20434: UseCase1', 'TMenuItem', iptrw);
20435: tutorial21', 'TMenuItem', iptrw);
20436: OpenUseCase1', 'TMenuItem', iptrw);
20437: PSImport_DB1', 'TPSImport_DB', iptrw);
20438: tutorial31', 'TMenuItem', iptrw);
20439: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
20440: HTMLSyntax1', 'TMenuItem', iptrw);
20441: ShowInterfaces1', 'TMenuItem', iptrw);
20442: Tutorials5', 'TMenuItem', iptrw);
20443: AllFunctionsList1', 'TMenuItem', iptrw);
20444: ShowLastException1', 'TMenuItem', iptrw);
20445: PlayMP31', 'TMenuItem', iptrw);
20446: SynTeXSyn1', 'TSynTeXSyn', iptrw);
20447: texSyntax1', 'TMenuItem', iptrw);
20448: N8', 'TMenuItem', iptrw);
20449: GetEMails1', 'TMenuItem', iptrw);
20450: SyncCppSyn1', 'TSynCppSyn', iptrw);
20451: CSyntax1', 'TMenuItem', iptrw);
20452: Tutorial16', 'TMenuItem', iptrw);
20453: New1', 'TMenuItem', iptrw);
20454: AllObjectsList1', 'TMenuItem', iptrw);
20455: LoadBytecode1', 'TMenuItem', iptrw);
20456: CipherFile1', 'TMenuItem', iptrw);
20457: N9', 'TMenuItem', iptrw);
20458: N10', 'TMenuItem', iptrw);
20459: Tutorial11', 'TMenuItem', iptrw);
20460: Tutorial71', 'TMenuItem', iptrw);
20461: UpdateService1', 'TMenuItem', iptrw);
20462: PascalSchool1', 'TMenuItem', iptrw);
20463: Tutorial81', 'TMenuItem', iptrw);
20464: DelphiSite1', 'TMenuItem', iptrw);
20465: Output1', 'TMenuItem', iptrw);
20466: TerminalStyle1', 'TMenuItem', iptrw);
20467: ReadOnly1', 'TMenuItem', iptrw);
20468: ShellStyle1', 'TMenuItem', iptrw);
20469: BigScreen1', 'TMenuItem', iptrw);
20470: Tutorial91', 'TMenuItem', iptrw);
20471: SaveOutput2', 'TMenuItem', iptrw);
20472: N11', 'TMenuItem', iptrw);
20473: SaveScreenshot', 'TMenuItem', iptrw);
20474: Tutorial101', 'TMenuItem', iptrw);
20475: SQLSyntax1', 'TMenuItem', iptrw);
20476: SynSQLSyn1', 'TSynSQLSyn', iptrw);
20477: Console1', 'TMenuItem', iptrw);
20478: SynXMLSyn1', 'TSynXMLSyn', iptrw);
20479: XMLSyntax1', 'TMenuItem', iptrw);
20480: ComponentCount1', 'TMenuItem', iptrw);
20481: NewInstance1', 'TMenuItem', iptrw);
20482: toolbtnTutorial', 'TToolButton', iptrw);
20483: Memory1', 'TMenuItem', iptrw);
20484: SynJavaSyn1', 'TSynJavaSyn', iptrw);
20485: JavaSyntax1', 'TMenuItem', iptrw);
20486: SyntaxCheck1', 'TMenuItem', iptrw);
20487: Tutorial10Statistics1', 'TMenuItem', iptrw);
20488: ScriptExplorer1', 'TMenuItem', iptrw);
20489: FormOutput1', 'TMenuItem', iptrw);
20490: ArduinoDump1', 'TMenuItem', iptrw);
20491: AndroidDump1', 'TMenuItem', iptrw);
20492: GotoEnd1', 'TMenuItem', iptrw);
20493: AllResourceList1', 'TMenuItem', iptrw);
20494: ToolButton4', 'TToolButton', iptrw);
20495: btn6res', 'TToolButton', iptrw);
20496: Tutorial11Forms1', 'TMenuItem', iptrw);
20497: Tutorial12SQL1', 'TMenuItem', iptrw);
20498: ResourceExplore1', 'TMenuItem', iptrw);
20499: Info1', 'TMenuItem', iptrw);
20500: N12', 'TMenuItem', iptrw);
20501: CryptoBox1', 'TMenuItem', iptrw);
20502: Tutorial13Ciphering1', 'TMenuItem', iptrw);
20503: CipherFile2', 'TMenuItem', iptrw);
20504: N13', 'TMenuItem', iptrw);
20505: ModulesCount1', 'TMenuItem', iptrw);
20506: AddOns2', 'TMenuItem', iptrw);
20507: N4GewinntGame1', 'TMenuItem', iptrw);
20508: DocuforAddOns1', 'TMenuItem', iptrw);
20509: Tutorial14Async1', 'TMenuItem', iptrw);
20510: Lessons15Review1', 'TMenuItem', iptrw);
20511: SynPHPSyn1', 'TSynPHPSyn', iptrw);
20512: PHPSyntax1', 'TMenuItem', iptrw);
20513: Breakpoint1', 'TMenuItem', iptrw);
20514: SerialRS2321', 'TMenuItem', iptrw);
20515: N14', 'TMenuItem', iptrw);
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20516: SynCSSyn1', 'TSynCSSyn', iptrw);
20517: CSyntax2', 'TMenuItem', iptrw);
20518: Calculator1', 'TMenuItem', iptrw);
20519: btnSerial', 'TToolButton', iptrw);
20520: ToolButton8', 'TToolButton', iptrw);
20521: Tutorial151', 'TMenuItem', iptrw);
20522: N15', 'TMenuItem', iptrw);
20523: N16', 'TMenuItem', iptrw);
20524: ControlBar1', 'TControlBar', iptrw);
20525:ToolBar2', 'TToolBar', iptrw);
20526: BtnOpen', 'TToolButton', iptrw);
20527: BtnSave', 'TToolButton', iptrw);
20528: BtnPrint', 'TToolButton', iptrw);
20529: BtnColors', 'TToolButton', iptrw);
20530: btnClassReport', 'TToolButton', iptrw);
20531: BtnRotateRight', 'TToolButton', iptrw);
20532: BtnFullScreen', 'TToolButton', iptrw);
20533: BtnFitWindowSize', 'TToolButton', iptrw);
20534: BtnZoomMinus', 'TToolButton', iptrw);
20535: BtnZoomPlus', 'TToolButton', iptrw);
20536: Panel1', 'TPanel', iptrw);
20537: LabelBrettgroesse', 'TLabel', iptrw);
20538: CB1SCList', 'TComboBox', iptrw);
20539: ImageListNormal', 'TImageList', iptrw);
20540: spbtnxplore', 'TSpeedButton', iptrw);
20541: spbtnexample', 'TSpeedButton', iptrw);
20542: spbsaveas', 'TSpeedButton', iptrw);
20543: imglobobox', 'TImage', iptrw);
20544: EnlargeFont1', 'TMenuItem', iptrw);
20545: EnlargeFont2', 'TMenuItem', iptrw);
20546: ShrinkFont1', 'TMenuItem', iptrw);
20547: ThreadDemol', 'TMenuItem', iptrw);
20548: HEXEditor1', 'TMenuItem', iptrw);
20549: HEXView1', 'TMenuItem', iptrw);
20550: HEXInspect1', 'TMenuItem', iptrw);
20551: SynExporterHTML1', 'TSynExporterHTML', iptrw);
20552: ExporttoHTML1', 'TMenuItem', iptrw);
20553: ClassCount1', 'TMenuItem', iptrw);
20554: HTMLOutput1', 'TMenuItem', iptrw);
20555: HEXEditor2', 'TMenuItem', iptrw);
20556: Minesweeper1', 'TMenuItem', iptrw);
20557: N17', 'TMenuItem', iptrw);
20558: PicturePuzzle1', 'TMenuItem', iptrw);
20559: sbvc1help', 'TSpeedButton', iptrw);
20560: DependencyWalker1', 'TMenuItem', iptrw);
20561: WebScanner1', 'TMenuItem', iptrw);
20562: View1', 'TMenuItem', iptrw);
20563: mnToolbar1', 'TMenuItem', iptrw);
20564: mnStatusbar2', 'TMenuItem', iptrw);
20565: mnConsole2', 'TMenuItem', iptrw);
20566: mnCoolbar2', 'TMenuItem', iptrw);
20567: mnSplitter2', 'TMenuItem', iptrw);
20568: WebServer1', 'TMenuItem', iptrw);
20569: Tutorial17Server1', 'TMenuItem', iptrw);
20570: Tutorial18Arduino1', 'TMenuItem', iptrw);
20571: SynPerlSyn1', 'TSynPerlSyn', iptrw);
20572: PerlSyntax1', 'TMenuItem', iptrw);
20573: SynPythonSyn1', 'TSynPythonSyn', iptrw);
20574: PythonSyntax1', 'TMenuItem', iptrw);
20575: DMathLibrary1', 'TMenuItem', iptrw);
20576: IntfNavigator1', 'TMenuItem', iptrw);
20577: EnlargeFontConsole1', 'TMenuItem', iptrw);
20578: ShrinkFontConsole1', 'TMenuItem', iptrw);
20579: SetInterfaceList1', 'TMenuItem', iptrw);
20580: popintfList', 'TPopupMenu', iptrw);
20581: intfAdd1', 'TMenuItem', iptrw);
20582: intfDelete1', 'TMenuItem', iptrw);
20583: intfRefactor1', 'TMenuItem', iptrw);
20584: Defactor1', 'TMenuItem', iptrw);
20585: Tutorial19COMArduino1', 'TMenuItem', iptrw);
20586: Tutorial20Regex', 'TMenuItem', iptrw);
20587: N18', 'TMenuItem', iptrw);
20588: ManualE1', 'TMenuItem', iptrw);
20589: FullTextFinder1', 'TMenuItem', iptrw);
20590: Move1', 'TMenuItem', iptrw);
20591: FractalDemol', 'TMenuItem', iptrw);
20592: Tutorial21Android1', 'TMenuItem', iptrw);
20593: Tutorial0Function1', 'TMenuItem', iptrw);
20594: SimuLogBox1', 'TMenuItem', iptrw);
20595: OpenExamples1', 'TMenuItem', iptrw);
20596: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
20597: JavaScriptSyntax1', 'TMenuItem', iptrw);
20598: Halt1', 'TMenuItem', iptrw);
20599: CodeSearch1', 'TMenuItem', iptrw);
20600: SynRubySyn1', 'TSynRubySyn', iptrw);
20601: RubySyntax1', 'TMenuItem', iptrw);
20602: Undo1', 'TMenuItem', iptrw);
20603: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
20604: LinuxShellScript1', 'TMenuItem', iptrw);
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20605: Renamel', 'TMenuItem', iptrw);
20606: spdcodesearch', 'TSpeedButton', iptrw);
20607: Preview1', 'TMenuItem', iptrw);
20608: Tutorial22Services1', 'TMenuItem', iptrw);
20609: Tutorial23RealTime1', 'TMenuItem', iptrw);
20610: Configuration1', 'TMenuItem', iptrw);
20611: MP3Player1', 'TMenuItem', iptrw);
20612: DLLSpyl', 'TMenuItem', iptrw);
20613: SynURIOpener1', 'TSynURIOpener', iptrw);
20614: SynURISyn1', 'TSynURISyn', iptrw);
20615: URILinksClicks1', 'TMenuItem', iptrw);
20616: EditReplace1', 'TMenuItem', iptrw);
20617: Gotoline1', 'TMenuItem', iptrw);
20618: ActiveLineColor1', 'TMenuItem', iptrw);
20619: ConfigFile1', 'TMenuItem', iptrw);
20620: SortList1', 'TMenuItem', iptrw);
20621: Redo1', 'TMenuItem', iptrw);
20622: Tutorial24CleanCode1', 'TMenuItem', iptrw);
20623: Tutorial25Configuration1', 'TMenuItem', iptrw);
20624: IndentSelection1', 'TMenuItem', iptrw);
20625: UnindentSection1', 'TMenuItem', iptrw);
20626: SkyStyle1', 'TMenuItem', iptrw);
20627: N19', 'TMenuItem', iptrw);
20628: CountWords1', 'TMenuItem', iptrw);
20629: imbookmarkimages', 'TImageList', iptrw);
20630: Bookmark11', 'TMenuItem', iptrw);
20631: N20', 'TMenuItem', iptrw);
20632: Bookmark21', 'TMenuItem', iptrw);
20633: Bookmark31', 'TMenuItem', iptrw);
20634: Bookmark41', 'TMenuItem', iptrw);
20635: SynMultiSyn1', 'TSynMultiSyn', iptrw);
20636:
20637: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
20638: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
20639: Procedure PSSScriptCompile( Sender : TPSScript)
20640: Procedure Compile1Click( Sender : TObject)
20641: Procedure PSSScriptExecute( Sender : TPSScript)
20642: Procedure open1Click( Sender : TObject)
20643: Procedure Save2Click( Sender : TObject)
20644: Procedure Savebefore1Click( Sender : TObject)
20645: Procedure Largefont1Click( Sender : TObject)
20646: Procedure FormActivate( Sender : TObject)
20647: Procedure SBytecode1Click( Sender : TObject)
20648: Procedure FormKeyPress( Sender : TObject; var Key : Char)
20649: Procedure Saveas3Click( Sender : TObject)
20650: Procedure Clear1Click( Sender : TObject)
20651: Procedure Slinenumbers1Click( Sender : TObject)
20652: Procedure About1Click( Sender : TObject)
20653: Procedure Search1Click( Sender : TObject)
20654: Procedure FormCreate( Sender : TObject)
20655: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
20656: var Action : TSynReplaceAction)
20657: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
20658: Procedure WordWrap1Click( Sender : TObject)
20659: Procedure SearchNext1Click( Sender : TObject)
20660: Procedure Replace1Click( Sender : TObject)
20661: Function PSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FName,Output:String):Bool;
20662: Procedure ShowInclude1Click( Sender : TObject)
20663: Procedure Printout1Click( Sender : TObject)
20664: Procedure mnuPrintFont1Click( Sender : TObject)
20665: Procedure Include1Click( Sender : TObject)
20666: Procedure FormDestroy( Sender : TObject)
20667: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
20668: Procedure UpdateView1Click( Sender : TObject)
20669: Procedure CodeCompletionList1Click( Sender : TObject)
20670: Procedure SaveOutput1Click( Sender : TObject)
20671: Procedure ExportClipboard1Click( Sender : TObject)
20672: Procedure Close1Click( Sender : TObject)
20673: Procedure Manual1Click( Sender : TObject)
20674: Procedure LoadLastFile1Click( Sender : TObject)
20675: Procedure Memo1Change( Sender : TObject)
20676: Procedure Decompile1Click( Sender : TObject)
20677: Procedure StepInto1Click( Sender : TObject)
20678: Procedure StepOut1Click( Sender : TObject)
20679: Procedure Reset1Click( Sender : TObject)
20680: Procedure cedebugAfterExecute( Sender : TPSScript)
20681: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
20682: Procedure cedebugCompile( Sender : TPSScript)
20683: Procedure cedebugExecute( Sender : TPSScript)
20684: Procedure cedebugIdle( Sender : TObject)
20685: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
20686: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
20687: Procedure BreakPointMenuClick( Sender : TObject)
20688: Procedure DebugRun1Click( Sender : TObject)
20689: Procedure tutorial4Click( Sender : TObject)
20690: Procedure ImportfromClipboard1Click( Sender : TObject)
20691: Procedure ImportfromClipboard2Click( Sender : TObject)
20692: Procedure tutorial1Click( Sender : TObject)
20693: Procedure ShowSpecChars1Click( Sender : TObject)

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20694: Procedure StatusBar1DblClick( Sender : TObject )
20695: Procedure PSScriptLine( Sender : TObject )
20696: Procedure OpenDirectory1Click( Sender : TObject )
20697: Procedure procMessClick( Sender : TObject )
20698: Procedure tbtnUseCaseClick( Sender : TObject )
20699: Procedure EditFont1Click( Sender : TObject )
20700: Procedure tutorial21Click( Sender : TObject )
20701: Procedure tutorial31Click( Sender : TObject )
20702: Procedure HTMLSyntax1Click( Sender : TObject )
20703: Procedure ShowInterfaces1Click( Sender : TObject )
20704: Procedure Tutorial5Click( Sender : TObject )
20705: Procedure ShowLastException1Click( Sender : TObject )
20706: Procedure PlayMP31Click( Sender : TObject )
20707: Procedure AllFunctionsList1Click( Sender : TObject )
20708: Procedure texSyntax1Click( Sender : TObject )
20709: Procedure GetEMails1Click( Sender : TObject )
20710: procedure DelphiSite1Click(Sender: TObject);
20711: procedure TerminalStyle1Click(Sender: TObject);
20712: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2.readonly:= false;
20713: procedure ShellStyle1Click(Sender: TObject);
20714: procedure Console1Click(Sender: TObject); //3.2
20715: procedure BigScreen1Click(Sender: TObject);
20716: procedure Tutorial91Click(Sender: TObject);
20717: procedure SaveScreenshotClick(Sender: TObject);
20718: procedure Tutorial101Click(Sender: TObject);
20719: procedure SQLSyntax1Click(Sender: TObject);
20720: procedure XMLSyntax1Click(Sender: TObject);
20721: procedure ComponentCount1Click(Sender: TObject);
20722: procedure NewInstance1Click(Sender: TObject);
20723: procedure CSyntax1Click(Sender: TObject);
20724: procedure Tutorial6Click(Sender: TObject);
20725: procedure New1Click(Sender: TObject);
20726: procedure AllObjectsList1Click(Sender: TObject);
20727: procedure LoadBytecode1Click(Sender: TObject);
20728: procedure CipherFile1Click(Sender: TObject); //V3.5
20729: procedure NewInstance1Click(Sender: TObject);
20730: procedure toolbarTutorialClick(Sender: TObject);
20731: procedure Memory1Click(Sender: TObject);
20732: procedure JavaSyntax1Click(Sender: TObject);
20733: procedure SyntaxCheck1Click(Sender: TObject);
20734: procedure ScriptExplorer1Click(Sender: TObject);
20735: procedure FormOutput1Click(Sender: TObject); //V3.6
20736: procedure GotoEnd1Click(Sender: TObject);
20737: procedure AllResourceList1Click(Sender: TObject);
20738: procedure tbtn6resClick(Sender: TObject); //V3.7
20739: procedure Info1Click(Sender: TObject);
20740: procedure Tutorial10Statistics1Click(Sender: TObject);
20741: procedure Tutorial11Forms1Click(Sender: TObject);
20742: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
20743: procedure ResourceExplore1Click(Sender: TObject);
20744: procedure Info1Click(Sender: TObject);
20745: procedure CryptoBox1Click(Sender: TObject);
20746: procedure ModulesCount1Click(Sender: TObject);
20747: procedure N4GewinntGame1Click(Sender: TObject);
20748: procedure PHPSyntax1Click(Sender: TObject);
20749: procedure SerialRS2321Click(Sender: TObject);
20750: procedure CSyntax2Click(Sender: TObject);
20751: procedure Calculator1Click(Sender: TObject);
20752: procedure Tutorial13Ciphering1Click(Sender: TObject);
20753: procedure Tutorial14Async1Click(Sender: TObject);
20754: procedure PHPSyntax1Click(Sender: TObject);
20755: procedure BtnZoomPlusClick(Sender: TObject);
20756: procedure BtnZoomMinusClick(Sender: TObject);
20757: procedure btnClassReportClick(Sender: TObject);
20758: procedure ThreadDemolClick(Sender: TObject);
20759: procedure HEXView1Click(Sender: TObject);
20760: procedure ExporttoHTML1Click(Sender: TObject);
20761: procedure Minesweeper1Click(Sender: TObject);
20762: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
20763: procedure sbvc1helpClick(Sender: TObject);
20764: procedure DependencyWalker1Click(Sender: TObject);
20765: procedure CB1SCLlistDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
20766: procedure WebScanner1Click(Sender: TObject);
20767: procedure mnToolbar1Click(Sender: TObject);
20768: procedure mnStatusbar2Click(Sender: TObject);
20769: procedure mnConsole2Click(Sender: TObject);
20770: procedure mnCoolbar2Click(Sender: TObject);
20771: procedure mnSplitter2Click(Sender: TObject);
20772: procedure WebServer1Click(Sender: TObject);
20773: procedure PerlSyntax1Click(Sender: TObject);
20774: procedure PythonSyntax1Click(Sender: TObject);
20775: procedure DMathLibrary1Click(Sender: TObject);
20776: procedure IntfNavigator1Click(Sender: TObject);
20777: procedure FullTextFinder1Click(Sender: TObject);
20778: function AppName: string;
20779: function ScriptName: string;
20780: function LastName: string;
20781: procedure FractalDemo1Click(Sender: TObject);
20782: procedure SimuLogBox1Click(Sender: TObject);

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20783: procedure OpenExamples1Click(Sender: TObject);
20784: procedure Halt1Click(Sender: TObject);
20785: procedure Stop;
20786: procedure CodeSearch1Click(Sender: TObject);
20787: procedure RubySyntax1Click(Sender: TObject);
20788: procedure Undo1Click(Sender: TObject);
20789: procedure LinuxShellScript1Click(Sender: TObject);
20790: procedure WebScannerDirect(urls: string);
20791: procedure WebScanner(urls: string);
20792: procedure LoadInterfaceList2;
20793: procedure DLLSpy1Click(Sender: TObject);
20794: procedure Memo1DblClick(Sender: TObject);
20795: procedure URILinksClicks1Click(Sender: TObject);
20796: procedure GotoLine1Click(Sender: TObject);
20797: procedure ConfigFile1Click(Sender: TObject);
20798: Procedure SortIntlistClick( Sender : TObject)
20799: Procedure RedoClick( Sender : TObject)
20800: Procedure Tutorial24CleanCode1Click( Sender : TObject)
20801: Procedure IndentSelection1Click( Sender : TObject)
20802: Procedure UnindentSection1Click( Sender : TObject)
20803: Procedure SkyStyle1Click( Sender : TObject)
20804: Procedure CountWords1Click( Sender : TObject)
20805: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark)
20806: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
20807: Procedure Bookmark11Click( Sender : TObject)
20808: Procedure Bookmark21Click( Sender : TObject)
20809: Procedure Bookmark31Click( Sender : TObject)
20810: Procedure Bookmark41Click( Sender : TObject)
20811: Procedure SynMultiSynCustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
20812: 'STATMemoryReport', 'boolean', iptrw);
20813: 'IPPort', 'integer', iptrw);
20814: 'COMPort', 'integer', iptrw);
20815: 'lbintlist', 'TListBox', iptrw);
20816: Function GetStatChange : boolean
20817: Procedure SetStatChange( vstat : boolean)
20818: Function GetActFileName : string
20819: Procedure SetActFileName( vname : string)
20820: Function GetLastFileName : string
20821: Procedure SetLastFileName( vname : string)
20822: Procedure WebScannerDirect( urls : string)
20823: Procedure LoadInterfaceList2
20824: Function GetStatExecuteShell : boolean
20825: Procedure DoEditorExecuteCommand( EditorCommand : word)
20826: function GetActiveLineColor: TColor
20827: procedure SetActiveLineColor(acolor: TColor)
20828: procedure ScriptListbox1Click(Sender: TObject);
20829: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
20830: procedure EnlargeGutter1Click(Sender: TObject);
20831: procedure Tetris1Click(Sender: TObject);
20832: procedure ToDoList1Click(Sender: TObject);
20833: procedure ProcessList1Click(Sender: TObject);
20834: procedure MetricReport1Click(Sender: TObject);
20835: procedure ProcessList1Click(Sender: TObject);
20836: procedure TCPSockets1Click(Sender: TObject);
20837: procedure ConfigUpdate1Click(Sender: TObject);
20838: procedure ADOWorkbench1Click(Sender: TObject);
20839: procedure SocketServer1Click(Sender: TObject);
20840: procedure FormDemo1Click(Sender: TObject);
20841: procedure Richedit1Click(Sender: TObject);
20842: procedure SimpleBrowser1Click(Sender: TObject);
20843: procedure DOSShell1Click(Sender: TObject);
20844: procedure SynExport1Click(Sender: TObject);
20845: procedure ExporttoRTF1Click(Sender: TObject);
20846: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
20847: procedure SOAPTester1Click(Sender: TObject);
20848: procedure Sniffer1Click(Sender: TObject);
20849: procedure AutoDetectSyntax1Click(Sender: TObject);
20850: procedure FPPlot1Click(Sender: TObject);
20851: procedure PasStyle1Click(Sender: TObject);
20852: procedure Tutorial183RGBLED1Click(Sender: TObject);
20853: procedure Reversi1Click(Sender: TObject);
20854: procedure Manualmaxbox1Click(Sender: TObject);
20855: procedure BlaisePascalMagazine1Click(Sender: TObject);
20856: procedure AddToDo1Click(Sender: TObject);
20857: procedure CreateGUID1Click(Sender: TObject);
20858: procedure Tutorial27XML1Click(Sender: TObject);
20859: procedure CreateDLLStub1Click(Sender: TObject);
20860: procedure Tutorial28DLL1Click(Sender: TObject);');
20861: procedure ResetKeyPressed;');
20862: procedure KeyPressedFalse;
20863: procedure FileChanges1Click(Sender: TObject);');
20864: procedure OpenGLTry1Click(Sender: TObject);');
20865: procedure AllUnitList1Click(Sender: TObject);');
20866: procedure Tutorial29UMLClick(Sender: TObject);
20867: procedure CreateHeader1Click(Sender: TObject);
20868: procedure Oscilloscope1Click(Sender: TObject);');
20869: procedure Tutorial30WOT1Click(Sender: TObject);');
20870: procedure GetWebScript1Click(Sender: TObject);');
20871: procedure Checkers1Click(Sender: TObject);');
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20872:   procedure TaskMgr1Click(Sender: TObject);');
20873:   procedure WebCam1Click(Sender: TObject);');
20874:   procedure Tutorial31Closure1Click(Sender: TObject);');
20875:   procedure GEOMapView1Click(Sender: TObject);');
20876:
20877: //-----
20878: //*****mX4 Editor SynEdit Tools API *****
20879: //-----
20880: //-----
20881: procedure SIRegister_TCustomSynEdit(CL: TPSPPascalCompiler);
20882: begin
20883:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
20884:   with FindClass('TCustomControl','TCustomSynEdit') do begin
20885:     Constructor Create(AOwner : TComponent)
20886:     SelStart', 'Integer', iptrw);
20887:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
20888:     Procedure UpdateCaret
20889:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
20890:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
20891:     Procedure BeginUndoBlock
20892:     Procedure BeginUpdate
20893:     Function CaretInView : Boolean
20894:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
20895:     Procedure Clear
20896:     Procedure ClearAll
20897:     Procedure ClearBookMark( BookMark : Integer )
20898:     Procedure ClearSelection
20899:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
20900:     Procedure ClearUndo
20901:     Procedure CopyToClipboard
20902:     Procedure CutToClipboard
20903:     Procedure DoCopyToClipboard( const SText : string )
20904:     Procedure EndUndoBlock
20905:     Procedure EndUpdate
20906:     Procedure EnsureCursorPosVisible
20907:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
20908:     Procedure FindMatchingBracket
20909:     Function GetMatchingBracket : TBufferCoord
20910:     Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
20911:     Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
20912:     Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
20913:     Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attr : TSynHighlighterAttributes ) : boolean
20914:     Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
20915:           var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes):boolean
20916:     Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
20917:     Function GetWordAtRowCol( const XY : TBufferCoord ) : string
20918:     Procedure GotoBookMark( BookMark : Integer )
20919:     Procedure GotoLineAndCenter( ALine : Integer )
20920:     Function IdentChars : TSynIdentChars
20921:     Procedure InvalidateGutter
20922:     Procedure InvalidateGutterLine( aLine : integer )
20923:     Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
20924:     Procedure InvalidateLine( Line : integer )
20925:     Procedure InvalidateLines( FirstLine, LastLine : integer )
20926:     Procedure InvalidateSelection
20927:     Function IsBookmark( BookMark : integer ) : boolean
20928:     Function IsPointInSelection( const Value : TBufferCoord ) : boolean
20929:     Procedure LockUndo
20930:     Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
20931:     Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
20932:     Function LineToRow( aLine : integer ) : integer
20933:     Function RowToLine( aRow : integer ) : integer
20934:     Function NextWordPos : TBufferCoord
20935:     Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
20936:     Function PasteFromClipboard
20937:     Function WordStart : TBufferCoord
20938:     Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
20939:     Function WordEnd : TBufferCoord
20940:     Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
20941:     Function PrevWordPos : TBufferCoord
20942:     Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
20943:     Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
20944:     Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
20945:     Procedure Redo
20946:     Procedure RegisterCommandHandler(const AHandlerProc:THookedCommandEvent; AHandlerData:pointer );
20947:     Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
20948:     Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
20949:     Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
20950:     Procedure SelectAll
20951:     Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer )
20952:     Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord )
20953:     Procedure SetDefaultKeystrokes
20954:     Procedure SetSelWord
20955:     Procedure SetWordBlock( Value : TBufferCoord )
20956:     Procedure Undo
20957:     Procedure UnlockUndo
20958:     Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent )
20959:     Procedure AddKeyUpHandler( aHandler : TKeyEvent )
20960:

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20961: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent )
20962: Procedure AddKeyDownHandler( aHandler : TKeyEvent )
20963: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent )
20964: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent )
20965: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent )
20966: Procedure AddFocusControl( aControl : TWinControl )
20967: Procedure RemoveFocusControl( aControl : TWinControl )
20968: Procedure AddMouseDownHandler( aHandler : TMouseEvent )
20969: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent )
20970: Procedure AddMouseUpHandler( aHandler : TMouseEvent )
20971: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent )
20972: Procedure AddMouseCursorHandler( aHandler : TMouseCursorEvent )
20973: Procedure RemoveMouseCursorHandler( aHandler : TMouseCursorEvent )
20974: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit )
20975: Procedure RemoveLinesPointer
20976: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList )
20977: Procedure UnHookTextBuffer
20978: BlockBegin', 'TBufferCoord', iptrw);
20979: BlockEnd', 'TBufferCoord', iptrw);
20980: CanPaste', 'Boolean', iptr);
20981: CanRedo', 'boolean', iptr);
20982: CanUndo', 'boolean', iptr);
20983: CaretX', 'Integer', iptrw);
20984: CaretY', 'Integer', iptrw);
20985: CaretXY', 'TBufferCoord', iptrw);
20986: ActiveLineColor', 'TColor', iptrw);
20987: DisplayX', 'Integer', iptr);
20988: DisplayY', 'Integer', iptr);
20989: DisplayXY', 'TDisplayCoord', iptr);
20990: DisplayLineCount', 'integer', iptr);
20991: CharsInWindow', 'Integer', iptr);
20992: CharWidth', 'integer', iptr);
20993: Font', 'TFont', iptrw);
20994: GutterWidth', 'Integer', iptr);
20995: Highlighter', 'TSynCustomHighlighter', iptrw);
20996: LeftChar', 'Integer', iptrw);
20997: LineHeight', 'integer', iptr);
20998: LinesInWindow', 'Integer', iptr);
20999: LineText', 'string', iptrw);
21000: Lines', 'TStrings', iptrw);
21001: Marks', 'TSynEditMarkList', iptr);
21002: MaxScrollWidth', 'integer', iptrw);
21003: Modified', 'Boolean', iptrw);
21004: PaintLock', 'Integer', iptr);
21005: ReadOnly', 'Boolean', iptrw);
21006: SearchEngine', 'TSynEditSearchCustom', iptrw);
21007: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
21008: SelTabBlock', 'Boolean', iptr);
21009: SelTabLine', 'Boolean', iptr);
21010: SelText', 'string', iptrw);
21011: StateFlags', 'TSynStateFlags', iptr);
21012: Text', 'string', iptrw);
21013: TopLine', 'Integer', iptrw);
21014: WordAtCursor', 'string', iptr);
21015: WordAtMouse', 'string', iptr);
21016: UndoList', 'TSynEditUndoList', iptr);
21017: RedoList', 'TSynEditUndoList', iptr);
21018: OnProcessCommand', 'TProcessCommandEvent', iptrw);
21019: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
21020: BorderStyle', 'TSynBorderStyle', iptrw);
21021: ExtraLineSpacing', 'integer', iptrw);
21022: Gutter', 'TSynGutter', iptrw);
21023: HideSelection', 'boolean', iptrw);
21024: InsertCaret', 'TSynEditCaretType', iptrw);
21025: InsertMode', 'boolean', iptrw);
21026: IsScrolling', 'Boolean', iptr);
21027: Keystrokes', 'TSynEditKeyStrokes', iptrw);
21028: MaxUndo', 'Integer', iptrw);
21029: Options', 'TSynEditorOptions', iptrw);
21030: OverwriteCaret', 'TSynEditCaretType', iptrw);
21031: RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
21032: ScrollHintColor', 'TColor', iptrw);
21033: ScrollHintFormat', 'TScrollHintFormat', iptrw);
21034: ScrollBars', 'TScrollBarStyle', iptrw);
21035: SelectedColor', 'TSynSelectedColor', iptrw);
21036: SelectionMode', 'TSynSelectionMode', iptrw);
21037: ActiveSelectionMode', 'TSynSelectionMode', iptrw);
21038: TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
21039: WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
21040: WordWrapGlyph', 'TSynGlyph', iptrw);
21041: OnChange', 'TNotifyEvent', iptrw);
21042: OnClearBookmark', 'TPlaceMarkEvent', iptrw);
21043: OnCommandProcessed', 'TProcessCommandEvent', iptrw);
21044: OnContextHelp', 'TContextHelpEvent', iptrw);
21045: OnDropFiles', 'TDropFilesEvent', iptrw);
21046: OnGutterClick', 'TGutterClickEvent', iptrw);
21047: OnGutterGetText', 'TGutterGetTextEvent', iptrw);
21048: OnGutterPaint', 'TGutterPaintEvent', iptrw);
21049: OnMouseCursor', 'TMouseCursorEvent', iptrw);
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21050:     OnPaint', 'TPaintEvent', iptrw);
21051:     OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
21052:     OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
21053:     OnReplaceText', 'TReplaceTextEvent', iptrw);
21054:     OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
21055:     OnStatusChange', 'TStatusChangeEvent', iptrw);
21056:     OnPaintTransient', 'TPaintTransient', iptrw);
21057:     OnScroll', 'TScrollEvent', iptrw);
21058:   end;
21059: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
21060: Function GetPlaceableHighlighters : TSynHighlighterList
21061: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
21062: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
21063: Procedure GetEditorCommandValues( Proc : TGetStrProc)
21064: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
21065: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
21066: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
21067: Function ConvertCodeStringToExtended( AString : String) : String
21068: Function ConvertExtendedToCodeString( AString : String) : String
21069: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand
21070: Function ConvertCodeStringToCommand( AString : String) : TSynEditorCommand
21071: Function IndexToEditorCommand( const AIndex : Integer) : Integer
21072:
21073:   TSynEditorOption =
21074:     eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
21075:     eoAutoIndent,                //Will indent caret on newlines with same amount of leading whitespace as
21076:                               // preceding line
21077:     eoAutoSizeMaxScrollWidth,    //Automatically resizes the MaxScrollWidth property when inserting text
21078:     eoDisableScrollArrows,       //Disables the scroll bar arrow buttons when you can't scroll in that
21079:                               //direction any more
21080:     eoDragDropEditing,          //Allows to select a textblock and drag it in document to another location
21081:     eoDropFiles,                 //Allows the editor accept OLE file drops
21082:     eoEnhanceHomeKey,           //enhances home key positioning, similar to visual studio
21083:     eoEnhanceEndKey,            //enhances End key positioning, similar to JDeveloper
21084:     eoGroupUndo,                 //When undoing/redoing actions,handle all cont.changes same kind in onecall
21085:                               //instead undoing/redoing each command separately
21086:     eoHalfPageScroll,           //By scrolling with page-up/page-down commands,only scroll half page attime
21087:     eoHideShowScrollbars,        //if enabled, then scrollbars will only show if necessary.
21088:     If you have ScrollPasteEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
21089:     eoKeepCaretX,               //When moving through lines w/o cursor Past EOL, keeps X position of cursor
21090:     eoNoCaret,                  //Makes it so the caret is never visible
21091:     eoNoSelection,               //Disables selecting text
21092:     eoRightMouseMovesCursor,    //When clicking with right mouse for popup menu, moves cursor to location
21093:     eoScrollByOneLess,           //Forces scrolling to be one less
21094:     eoScrollHintFollows,         //The scroll hint follows the mouse when scrolling vertically
21095:     eoScrollPastEof,             //Allows the cursor to go past the end of file marker
21096:     eoScrollPastEol,             //Allows cursor to go past last character into white space at end of a line
21097:     eoShowScrollHint,            //Shows a hint of the visible line numbers when scrolling vertically
21098:     eoShowSpecialChars,          //Shows the special Characters
21099:     eoSmartTabDelete,            //similar to Smart Tabs, but when you delete characters
21100:     eoSmartTabs,                 //When tabbing, cursor will go to non-white space character of previous line
21101:     eoSpecialLineDefaultFg,      //disables the foreground text color override using OnSpecialLineColor event
21102:     eoTabIndent,                 //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
21103:     eoTabsToSpaces,               //Converts a tab character to a specified number of space characters
21104:     eoTrimTrailingSpaces,        //Spaces at the end of lines will be trimmed and not saved
21105:
21106: *****Important Editor Short Cuts*****;
21107: Double click to select a word and count words with lightning.
21108: Triple click to select a line.
21109: CTRL+SHIFT+click to extend a selection.
21110: Drag with the ALT key down to select columns of text !!!
21111: Drag and drop is supported.
21112: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
21113: Type CTRL+A to select all.
21114: Type CTRL+N to set a new line.
21115: Type CTRL+T to delete a line or token. //Tokenizer
21116: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
21117: Type CTRL+Shift+T to add ToDo in line and list.
21118: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
21119: Type CTRL[0..9] to jump or get to bookmarks.
21120: Type Home to position cursor at beginning of current line and End to position it at end of line.
21121: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
21122: Page Up and Page Down work as expected.
21123: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
21124: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
21125:
21126: {$ Short Key Positions Ctrl<A-Z>: }
21127: def
21128:   <A> Select All
21129:   <B> Count Words
21130:   <C> Copy
21131:   <D> Internet Start
21132:   <E> Script List
21133:   <F> Find
21134:   <G> Goto
21135:   <H> Mark Line
21136:   <I> Interface List
21137:   <J> Code Completion
21138:   <K> Console

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21139: <L> Interface List Box
21140: <M> Font Larger -
21141: <N> New Line
21142: <O> Open File
21143: <P> Font Smaller +
21144: <Q> Quit
21145: <R> Replace
21146: <S> Save!
21147: <T> Delete Line
21148: <U> Use Case Editor
21149: <V> Paste
21150: <W> URI Links
21151: <X> Reserved for coding use internal
21152: <Y> Delete Line
21153: <Z> Undo
21154:
21155: ref
21156: F1 Help
21157: F2 Syntax Check
21158: F3 Search Next
21159: F4 New Instance
21160: F5 Line Mark /Breakpoint
21161: F6 Goto End
21162: F7 Debug Step Into
21163: F8 Debug Step Out
21164: F9 Compile
21165: F10 Menu
21166: F11 Word Count Highlight
21167: F12 Reserved for coding use internal
21168:
21169: AddRegisteredVariable( it ,integer'); //for closure!!
21170: AddRegisteredVariable( sr ,string'); //for closure
21171: AddRegisteredVariable( bt ,boolean'); //for closure
21172: AddRegisteredVariable( ft ,double'); //for closure
21173: AddRegisteredVariable( srlst ,TStringlist'); //for closures
21174:
21175: def ReservedWords: array[0..82] of string =
21176:   ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
21177:    'constructor', 'default', 'destructor', 'dispinterface', 'div', 'do',
21178:    'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
21179:    'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
21180:    'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
21181:    'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
21182:    'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
21183:    'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
21184:    'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
21185:    'uses', 'var', 'while', 'with', 'writeln', 'xor', 'private', 'protected',
21186:    'public', 'published',def.ref.using,typedef ,memo1 ,memo2 ,doc ,maxform1 ',it';
21187: AllowedChars: array[0..5] of string = ('(',')', '[',']', ',', ' ', t,t1,t2,t3: boolean;
21188: -----
21189: //*****End of mX4 Public Tools API *****
21190: -----
21191:
21192: Amount of Functions: 13556
21193: Amount of Procedures: 8327
21194: Amount of Constructors: 1338
21195: Totals of Calls: 23221
21196: SHA1: Win 3.9.9.100 B1CFFA2139BEF2D27D17C8212331A1E8C7584BD2
21197:
21198: ****
21199: Doc Short Manual with 50 Tips!
21200: ****
21201: - Install: just save your maxboxdef.ini before and then extract the zip file!
21202: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
21203: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
21204: - Menu: With <Ctrl><F3> you can search for code on examples
21205: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
21206: - Menu: Set Interface Naviagator in menu /View/Intf Navigator
21207: - Menu: Switch or toogle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
21208:
21209: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
21210: - Inifile: Refresh (reload) the inifile after edit with ..\Help\Config Update
21211: - Context Menu: You can printout your scripts as a pdf-file or html-export
21212: - Context: You do have a context menu with the right mouse click
21213:
21214: - Menu: With the UseCase Editor you can convert graphic formats too.
21215: - Menu: On menu Options you find Addons as compiled scripts
21216: - IDE: Menu Program: Run Only is faster, after F2 - You don't need a mouse use shortcuts
21217: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
21218: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
21219: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or interface
21220:           or ttimer (you type classp and then CTRL J), or you type tstringlist and <Ctrl><J>
21221:
21222: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
21223: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
21224: - Code: If you code a loop till key-pressed use function: isKeyPressed;
21225: - Code: Macro set the macros #name,, #paAdministrorth, #file,startmaxbox_extract_funclist399.txtter25.pdf
21226: - Code: change Syntax in autoboot macro 'maxbootscript.txt'
21227: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks

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21228:           to delete and Click and mark to drag a bookmark
21229: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
21230: - IDE: A file info with system and script information you find in menu Program/Information
21231: - IDE: After change the config file in help you can update changes in menu Help/Config Update
21232: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
21233: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
21234: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
21235: - Editor: Set Bookmarks to check your work in app or code
21236: - Editor: With <Ctrl H> you set {$Active Line Color} and F11 you get Word Count Statistic on Output too
21237: - Editor: With //TODO: some description or DONE you set code entries for ToDo List in ..../Help/ToDo List
21238: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
21239:
21240: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
21241: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
21242: - Menu: Set Interface Naviagator also with toggle <Ctrl L> or /View/Intf Navigator
21243: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
21244: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
21245: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available;
21246: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
21247: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
21248: - IDE menu /Help/Tools/ open the Task Manager
21249:
21250: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
21251: - Add on when no browser is available start /Options/Add ons/Easy Browser
21252: - Add on SOAP Tester with SOP POST File
21253: - Add on IP Protocol Sniffer with List View
21254: - Add on OpenGL mX Robot Demo for android
21255: - Add on Checkers Game, Add on Oscilloscope
21256:
21257: - Menu: Help/Tools as a Tool Section with DOS Opener
21258: - Menu Editor: export the code as RTF File
21259: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
21260: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
21261: - Context: Auto Detect of Syntax depending on file extension
21262: - Code: some Windows API function start with w in the name like wGetAtomName();
21263: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
21264: - IDE File Check with menu ..View/File Changes/...
21265: - Context: Create a Header with Create Header in Navigator List at right window
21266: - Code: use SysErrorMessage to get a real Error Description, Ex.
21267:     RemoveDir('c:\NoSuchFolder');
21268:     writeln('System Error Message: ' + SysErrorMessage(GetLastError));
21269: - IDE getWebScript from a URL with menu ..Help/Get Web Script/...
21270:
21271: - using DLL example in maxbox: //function: {*****}
21272:   Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
21273:                                     cb: DWORD): BOOL; //stdcall;
21274:   External 'GetProcessMemoryInfo@psapi.dll stdcall';
21275:   Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
21276:   External 'OpenProcess@kernel32.dll stdcall';
21277:
21278: GCC Compile Ex Script
21279: procedure TFormMain_btnCompileClick(Sender: TObject);
21280: begin
21281:   AProcess:= TProcess.Create(nil);
21282:   try
21283:     AProcess.CommandLine := 'gcc.exe "' + OpenDialog1.FileName + '"'
21284:     + ' -o "' + OpenDialog2.FileName + '"';
21285:   AProcess.Options:= AProcess.Options + [poWaitOnExit, poUsePipes];
21286:   AProcess.Execute;
21287:   Memo2.Lines.BeginUpdate;
21288:   Memo2.Lines.Clear;
21289:   Memo2.Lines.LoadFromStream(AProcess.Output);
21290:   Memo2.Lines.EndUpdate;
21291: finally
21292:   AProcess.Free;
21293: end;
21294:
21295: Stopwatch pattern
21296: Time1:= Time;
21297: writeln(formatdatetime('start: hh:mm:ss:zzz',Time))
21298: if initAndStartBoard then
21299:   writeln('Filesize: '+inttostr(filesize(FILESAVE)));
21300: writeln(formatDateTime('stop: hh:mm:ss:zzz',Time))
21301: PrintF('%d %s',[Trunc((Time-Time1)*24),
21302:                   FormatDateTime('h runtime: nn:ss:zzz',Time-Time1)])
21303:
21304: POST git-receive-pack (chunked)
21305: Pushing to https://github.com/maxkleiner/maxbox3.git
21306: To https://github.com/maxkleiner/maxbox3.git
21307: f127d21..c6a98da masterbox2 -> masterbox2
21308: updating local tracking ref 'refs/remotes/maxbox3Remote/masterbox2'
21309:
21310: History Shell Hell
21311: PCT Precompile Technology , mX4 ScriptStudio
21312: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
21313: DMath, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
21314: emax layers: system-package-component-unit-class-function-block
21315: new keywords def ref using maxCalcF
21316: UML: use case act class state seq pac comp dep - lib lab

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21317: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
21318: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
21319: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
21320: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
21321: 1 DLL Report, 24 Units add, DRTable, Remote+, Cindy functions!
21322: DLL Report, UML Tutor, 32 Units add, DRTable, Remote+, Cindy functions!
21323: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
21324: SendBuffer, Color+Caption hack, ComboSet, SetPrivilege, WakeOnLAN, ParaDice 3D Cube Polygraph, OCR
21325: GetScript or GetWebScript, GPS Example, Profiler, Checkers, Toolbox commons
21326: Add 15 Units, Wav resources, RoundTo, OpenOffice, Pipes
21327: TFixedCriticalSection, XPlatform beta, GCC Command Pipe
21328: Inno Install and Setup Routines
21329: Add 32 Units, Wav res, RoundTo, OpenOffice, Pipes, GSM2
21330: TFixedCriticalSection, XPlatform beta, GCC Command Pipe
21331: VfW (Video), FindFirst3, ResFiler, AssemblyCache, UnitTest
21332: 9 Color LED, LED Resources, Runtime LED, it + sr var, morse generator
21333: Add 5 Units, 1 Tutors, maxmap, OpenStreetView, MAPX
21334: Functions Menu/View/GEO Map View, DownloadFile, wgetX, sensors
21335: StreamUtils, IDL Syntax, OpenStreetMap, runByteCode, sensor panel, CGI of Powtils
21336:
21337: Ref:
21338: https://unibe-ch.academia.edu/MaxKleiner
21339: http://www.slideshare.net/maxkleiner1
21340: http://www.scribd.com/max_kleiner
21341: http://www.delphiforfun.org/Programs/Utilities/index.htm
21342: http://www.slideshare.net/maxkleiner1
21343: http://s3.amazonaws.com/PreviewLinks/22959.html
21344: http://www.softwareschule.ch/arduino_training.pdf
21345: http://www.jrsoftware.org/isinfo.php
21346: http://www.be-precision.com/products/precision-builder/express/
21347: http://www.blaisepascal.eu/
21348: http://www.delphibasics.co.uk/
21349: http://www.youtube.com/watch?v=av89HAbqAsI
21350: http://www.angelfire.com/hi5/delphizeus/modal.html
21351: https://github.com/dilshan/signalman/blob/master/SignalManTemplate.pas
21352: http://delphi.org/2014/01/every-android-api-for-delphi/
21353: https://en.wikipedia.org/wiki/User:Maxkleiner
21354: http://en.wikipedia.org/wiki/Megido_%28Free_Pascal%29
21355:
21356:
21357: UrlGoogleQrCode='http://chart.apis.google.com/chart?chs=%dx%d&cht=qr&chl=%s';
21358: UrlMapQuestAPICode2='http://open.mapquestapi.com/nominatim/v1/search.php?format=%s&json_callback
21359: =renderBasicSearchNarrative&q=%s';
21360: UrlMapQuestAPIReverse='http://open.mapquestapi.com/nominatim/v1/reverse.php?format=
21361: %s&json_callback=renderExampleThreeResults&lat=%s&lon=%s';
21362:
21363: function OpenMap(const Data: string): boolean;
21364: var encURL: string;
21365: begin
21366:   encURL:= Format(UrlMapQuestAPICode2,['html',HTTPEncode(Data)]);
21367:   try
21368:     //HttpGet(EncodedURL, mapStream); //WinInet
21369:     Result:= UrlDownloadToFile(Nil,PChar(encURL),PChar(Exepath+'openmapx.html'),0,Nil)= 0;
21370:     //OpenDoc(Exepath+'openmapx.html');
21371:     S_ShellExecute(Exepath+'openmapx.html','','seCmdOpen');
21372:   finally
21373:     encURL:= '';
21374:   end;
21375: end;
21376:
21377: procedure GetGEOMap(C_form,apath: string; const Data: string);
21378: var
21379:   encodedURL: string;
21380:   mapStream: TMemoryStream;
21381: begin
21382:   //encodedURL:= Format(UrlGoogleQrCode,[Width,Height, C_Level, HTTPEncode(Data)]);
21383:   encodedURL:= Format(UrlMapQuestAPICode2,[c_form,HTTPEncode(Data)]);
21384:   mapStream:= TMemoryStream.create;
21385:   try
21386:     Wininet_HttpGet(EncodedURL, mapStream); //WinInet
21387:     mapStream.Position:= 0;
21388:     mapStream.Savetofile(apath);
21389:     // OpenDoc(apath);
21390:     S_ShellExecute(apath,'',seCmdOpen);
21391:   finally
21392:     mapStream.Free;
21393:   end;
21394: end;
21395:
21396:
21397:
21398: ****
21399: unit List asm internal end
21400: ****
21401: 01 unit RIRegister_Utils_Routines(exec); //Delphi
21402: 02 unit SIRegister_IdStrings //Indy Sockets
21403: 03 unit RIRegister_nISTRING_Routines(Exec); //from RegEx
21404: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
21405: 05 unit IFSI_WinForm1puzzle; //maXbox

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21406: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImageFileLibBCB
21407: 07 unit RegisterDateLibrary_R(exec); //Delphi
21408: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
21409: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
21410: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
21411: 11 unit uPSI_IdTCPConnection; //Indy some functions
21412: 12 unit uPSCompiler.pas; //PS kernel functions
21413: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
21414: 14 unit uPSI_Printers.pas; //Delphi VCL
21415: 15 unit uPSI_MPlayer.pas; //Delphi VCL
21416: 16 unit uPSC_comobj; //COM Functions
21417: 17 unit uPSI_Clipbrd; //Delphi VCL
21418: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
21419: 19 unit uPSI_SQLExpr; //DBX3
21420: 20 unit uPSI_ADOdb; //ADODB
21421: 21 unit uPSI_StrHlpr; //String Helper Routines
21422: 22 unit uPSI_DateUtils; //Expansion to DateTimeLib
21423: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
21424: 24 unit JvUtils / gsUtils; //Jedi / Metabase
21425: 25 unit JvFunctions_max; //Jedi Functions
21426: 26 unit HTTPParser; //Delphi VCL
21427: 27 unit HTTPUtil; //Delphi VCL
21428: 28 unit uPSI_XMLUtil; //Delphi VCL
21429: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
21430: 30 unit uPSI_Contnrs; //Delphi RTL Container of Classes
21431: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
21432: 32 unit uPSI_MyBigInt; //big integer class with Math
21433: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
21434: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
21435: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
21436: 36 unit uPSI_IdHashMessageDigest; //Indy Crypto;
21437: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
21438: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
21439: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
21440: 40 unit uPSI_IdHashMessageDigest_max; //Indy Crypto &OpenSSL;
21441: 41 unit uPSI_FileCtrl; //Delphi RTL
21442: 42 unit uPSI_Outline; //Delphi VCL
21443: 43 unit uPSI_ScktComp; //Delphi RTL
21444: 44 unit uPSI_Calendar; //Delphi VCL
21445: 45 unit uPSI_VListView; //VListView;
21446: 46 unit uPSI_DBGrids; //Delphi VCL
21447: 47 unit uPSI_DBCtrls; //Delphi VCL
21448: 48 unit ide_debugoutput; //maXbox
21449: 49 unit uPSI_ComCtrls; //Delphi VCL
21450: 50 unit uPSC_stdCtrls+; //Delphi VCL
21451: 51 unit uPSI_Dialogs; //Delphi VCL
21452: 52 unit uPSI_StdConvs; //Delphi RTL
21453: 53 unit uPSI_DBClient; //Delphi RTL
21454: 54 unit uPSI_DBPlatform; //Delphi RTL
21455: 55 unit uPSI_Provider; //Delphi RTL
21456: 56 unit uPSI_FMTBcd; //Delphi RTL
21457: 57 unit uPSI_DBGrids; //Delphi VCL
21458: 58 unit uPSI_CDSUtil; //MIDAS
21459: 59 unit uPSI_VarHlpr; //Delphi RTL
21460: 60 unit uPSI_ExtDlgs; //Delphi VCL
21461: 61 unit sdpStopwatch; //maXbox
21462: 62 unit uPSI_JclStatistics; //JCL
21463: 63 unit uPSI_JclLogic; //JCL
21464: 64 unit uPSI_JclMiscel; //JCL
21465: 65 unit uPSI_JclMath_max; //JCL RTL
21466: 66 unit uPSI_uTPLb_StreamUtils; //LockBox 3
21467: 67 unit uPSI_MathUtils; //BCB
21468: 68 unit uPSI_JclMultimedia; //JCL
21469: 69 unit uPSI_WideStrUtils; //Delphi API/RTL
21470: 70 unit uPSI_GraphUtil; //Delphi RTL
21471: 71 unit uPSI_TypeTrans; //Delphi RTL
21472: 72 unit uPSI_HTTPApp; //Delphi VCL
21473: 73 unit uPSI_DBWeb; //Delphi VCL
21474: 74 unit uPSI_DBBdeWeb; //Delphi VCL
21475: 75 unit uPSI_DBXpressWeb; //Delphi VCL
21476: 76 unit uPSI_ShadowWnd; //Delphi VCL
21477: 77 unit uPSI_ToolWin; //Delphi VCL
21478: 78 unit uPSI_Tabs; //Delphi VCL
21479: 79 unit uPSI_JclGraphUtils; //JCL
21480: 80 unit uPSI_JclCounter; //JCL
21481: 81 unit uPSI_JclSysInfo; //JCL
21482: 82 unit uPSI_JclSecurity; //JCL
21483: 83 unit uPSI_JclFileUtils; //JCL
21484: 84 unit uPSI_IdUserAccounts; //Indy
21485: 85 unit uPSI_IdAuthentication; //Indy
21486: 86 unit uPSI_uTPLb_AES; //LockBox 3
21487: 87 unit uPSI_IdHashSHA1; //LockBox 3
21488: 88 unit uTPLb_BlockCipher; //LockBox 3
21489: 89 unit uPSI_ValEdit.pas; //Delphi VCL
21490: 90 unit uPSI_JvVCLUtils; //JCL
21491: 91 unit uPSI_JvDBUtil; //JCL
21492: 92 unit uPSI_JvDBUtils; //JCL
21493: 93 unit uPSI_JvAppUtils; //JCL
21494: 94 unit uPSI_JvCtrlUtils; //JCL

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21495: 95 unit uPSI_JvFormToHtml;                                //JCL
21496: 96 unit uPSI_JvParsing;                                 //JCL
21497: 97 unit uPSI_SerDlg;                                  //Toolbox
21498: 98 unit uPSI_Serial;                                 //Toolbox
21499: 99 unit uPSI_JvComponent;                            //JCL
21500: 100 unit uPSI_JvCalc;                                //JCL
21501: 101 unit uPSI_JvBdeUtils;                            //JCL
21502: 102 unit uPSI_JvDateUtil;                            //JCL
21503: 103 unit uPSI_JvGenetic;                            //JCL
21504: 104 unit uPSI_JclBase;                               //JCL
21505: 105 unit uPSI_JvUtils;                               //JCL
21506: 106 unit uPSI_JvStrUtil;                            //JCL
21507: 107 unit uPSI_JvStrUtils;                           //JCL
21508: 108 unit uPSI_JvFileUtil;                           //JCL
21509: 109 unit uPSI_JvMemoryInfos;                         //JCL
21510: 110 unit uPSI_JvComputerInfo;                        //JCL
21511: 111 unit uPSI_JvgCommClasses;                       //JCL
21512: 112 unit uPSI_JvgLogics;                            //JCL
21513: 113 unit uPSI_JvLED;                                //JCL
21514: 114 unit uPSI_JvTurtle;                             //JCL
21515: 115 unit uPSI_SortThds; unit uPSI_ThSort;           //maxbox
21516: 116 unit uPSI_JvgUtils;                            //JCL
21517: 117 unit uPSI_JvExprParser;                          //JCL
21518: 118 unit uPSI_HexDump;                             //Borland
21519: 119 unit uPSI_DBLogDlg;                            //VCL
21520: 120 unit uPSI_SqlTimSt;                            //RTL
21521: 121 unit uPSI_JvHtmlParser;                          //JCL
21522: 122 unit uPSI_JvgXMLSerializer;                     //JCL
21523: 123 unit uPSI_JvJCLUtils;                           //JCL
21524: 124 unit uPSI_JvStrings;                            //JCL
21525: 125 unit uPSI_uTPLb_IntegerUtils;                   //TurboPower
21526: 126 unit uPSI_uTPLb_HugeCardinal;                  //TurboPower
21527: 127 unit uPSI_uTPLb_HugeCardinalUtils;              //TurboPower
21528: 128 unit uPSI_SynRegExpr;                           //SynEdit
21529: 129 unit uPSI_StUtils;                             //SysTools4
21530: 130 unit uPSI_StToHTML;                            //SysTools4
21531: 131 unit uPSI_StStrms;                            //SysTools4
21532: 132 unit uPSI_StFIN;                              //SysTools4
21533: 133 unit uPSI_StAstroP;                           //SysTools4
21534: 134 unit uPSI_StStat;                            //SysTools4
21535: 135 unit uPSI_StNetCon;                           //SysTools4
21536: 136 unit uPSI_StDecMth;                           //SysTools4
21537: 137 unit uPSI_StOStr;                            //SysTools4
21538: 138 unit uPSI_StPtrns;                            //SysTools4
21539: 139 unit uPSI_StNetMsg;                           //SysTools4
21540: 140 unit uPSI_StMath;                            //SysTools4
21541: 141 unit uPSI_StExpEng;                           //SysTools4
21542: 142 unit uPSI_StCRC;                            //SysTools4
21543: 143 unit uPSI_StExport;                           //SysTools4
21544: 144 unit uPSI_StExpLog;                           //SysTools4
21545: 145 unit uPSI_Actnlist;                           //Delphi VCL
21546: 146 unit uPSI_jpeg;                                //Borland
21547: 147 unit uPSI_StRandom;                           //SysTools4
21548: 148 unit uPSI_StDict;                            //SysTools4
21549: 149 unit uPSI_StBCD;                            //SysTools4
21550: 150 unit uPSI_StTxtDat;                           //SysTools4
21551: 151 unit uPSI_StRegEx;                           //SysTools4
21552: 152 unit uPSI_IMouse;                            //VCL
21553: 153 unit uPSI_SyncObjs;                           //VCL
21554: 154 unit uPSI_AsyncCalls;                          //Hausladen
21555: 155 unit uPSI_ParallelJobs;                        //Saraiva
21556: 156 unit uPSI_Variants;                           //VCL
21557: 157 unit uPSI_VarCmplx;                           //VCL Wolfram
21558: 158 unit uPSI_DTDSchema;                          //VCL
21559: 159 unit uPSI_ShLwApi;                            //Brakel
21560: 160 unit uPSI_IBUtils;                            //VCL
21561: 161 unit uPSI_CheckLst;                           //VCL
21562: 162 unit uPSI_JvSimpleXml;                         //JCL
21563: 163 unit uPSI_JclSimpleXml;                        //JCL
21564: 164 unit uPSI_JvXmlDatabase;                      //JCL
21565: 165 unit uPSI_JvMaxPixel;                          //JCL
21566: 166 unit uPSI_JvItemsSearchs;                      //JCL
21567: 167 unit uPSI_StExpEng2;                           //SysTools4
21568: 168 unit uPSI_StGenLog;                            //SysTools4
21569: 169 unit uPSI_JvLogFile;                           //Jcl
21570: 170 unit uPSI_CPort;                               //ComPort Lib v4.11
21571: 171 unit uPSI_CPortCtl;                            //ComPort
21572: 172 unit uPSI_CPortEsc;                            //ComPort
21573: 173 unit BarCodeScanner;                           //ComPort
21574: 174 unit uPSI_JvGraph;                            //JCL
21575: 175 unit uPSI_JvComCtrls;                          //JCL
21576: 176 unit uPSI_GUITesting;                          //D Unit
21577: 177 unit uPSI_JvFindFiles;                         //JCL
21578: 178 unit uPSI_StSystem;                           //SysTools4
21579: 179 unit uPSI_JvKeyboardStates;                    //JCL
21580: 180 unit uPSI_JvMail;                             //JCL
21581: 181 unit uPSI_JclConsole;                          //JCL
21582: 182 unit uPSI_JclLANMan;                           //JCL
21583: 183 unit uPSI_IdCustomHTTPServer;                  //Indy

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21584: 184 unit IdHTTPServer //Indy
21585: 185 unit uPSI_IdTCPServer; //Indy
21586: 186 unit uPSI_IdSocketHandle; //Indy
21587: 187 unit uPSI_IdIOHandlerSocket; //Indy
21588: 188 unit IdIOHandler; //Indy
21589: 189 unit uPSI_utils; //Bloodshed
21590: 190 unit uPSI-BoldUtils; //boldsoft
21591: 191 unit uPSI_IdsSimpleServer; //Indy
21592: 192 unit uPSI_IdSSLOpenSSL; //Indy
21593: 193 unit uPSI_IdMultipartFormData; //Indy
21594: 194 unit uPSI_SynURIOpener; //SynEdit
21595: 195 unit uPSI_PerlRegEx; //PCRE
21596: 196 unit uPSI_IdHeaderList; //Indy
21597: 197 unit uPSI_StFirst; //SysTools4
21598: 198 unit uPSI_JvCtrls; //JCL
21599: 199 unit uPSI_IdTrivialFTPBase; //Indy
21600: 200 unit uPSI_IdTrivialFTP; //Indy
21601: 201 unit uPSI_IdUDPBase; //Indy
21602: 202 unit uPSI_IdUDPClient; //Indy
21603: 203 unit uPSI_utypes; //for DMath.DLL
21604: 204 unit uPSI_ShellAPI; //Borland
21605: 205 unit uPSI_IdRemoteCMDClient; //Indy
21606: 206 unit uPSI_IdRemoteCMDServer; //Indy
21607: 207 unit IdRexecServer; //Indy
21608: 208 unit IdRexec; (unit uPSI_IdRexec;) //Indy
21609: 209 unit IdUDPServer; //Indy
21610: 210 unit IdTimeUDPServer; //Indy
21611: 211 unit IdTimeServer; //Indy
21612: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;) //Indy
21613: 213 unit uPSI_IdIPWatch; //Indy
21614: 214 unit uPSI_IdIrcServer; //Indy
21615: 215 unit uPSI_IdMessageCollection; //Indy
21616: 216 unit uPSI_cPEM; //Fundamentals 4
21617: 217 unit uPSI_cFundamentUtils; //Fundamentals 4
21618: 218 unit uPSI_uwinplot; //DMath
21619: 219 unit uPSI_xrtl_util_CPUUtils; //ExtentedRTL
21620: 220 unit uPSI_GR32_System; //Graphics32
21621: 221 unit uPSI_cFileUtils; //Fundamentals 4
21622: 222 unit uPSI_cDateTime; (timemachine) //Fundamentals 4
21623: 223 unit uPSI_cTimers; (high precision timer) //Fundamentals 4
21624: 224 unit uPSI_cRandom; //Fundamentals 4
21625: 225 unit uPSI_ueval; //DMath
21626: 226 unit uPSI_xrtl_net_URIUtils; //ExtendedRTL
21627: 227 unit xrtl_net_URIUtils; //ExtendedRTL
21628: 228 unit uPSI_ufft; (FFT) //DMath
21629: 229 unit uPSI_DBXChannel; //Delphi
21630: 230 unit uPSI_DBXIndyChannel; //Delphi Indy
21631: 231 unit uPSI_xrtl_util_COMCat; //ExtendedRTL
21632: 232 unit uPSI_xrtl_util_StrUtils; //ExtendedRTL
21633: 233 unit uPSI_xrtl_util_VariantUtils; //ExtendedRTL
21634: 234 unit uPSI_xrtl_util_FileUtils; //ExtendedRTL
21635: 235 unit xrtl_util_Compat; //ExtendedRTL
21636: 236 unit uPSI_OleAuto; //Borland
21637: 237 unit uPSI_xrtl_util_COMUtils; //ExtendedRTL
21638: 238 unit uPSI_CmAdmCtl; //Borland
21639: 239 unit uPSI_ValEdit2; //VCL
21640: 240 unit uPSI_GR32; //Graphics32
21641: 241 unit uPSI_GR32_Image; //Graphics32
21642: 242 unit uPSI_xrtl_util_TimeUtils; //ExtendedRTL
21643: 243 unit uPSI_xrtl_util_TimeZone; //ExtendedRTL
21644: 244 unit uPSI_xrtl_util_TimeStamp; //ExtendedRTL
21645: 245 unit uPSI_xrtl_util_Map; //ExtendedRTL
21646: 246 unit uPSI_xrtl_util_Set; //ExtendedRTL
21647: 247 unit uPSI_CPortMonitor; //ComPort
21648: 248 unit uPSI_StIniStm; //SysTools4
21649: 249 unit uPSI_GR32_ExtImage; //Graphics32
21650: 250 unit uPSI_GR32_OrdinalMaps; //Graphics32
21651: 251 unit uPSI_GR32_Rasterizers; //Graphics32
21652: 252 unit uPSI_xrtl_util_Exception; //ExtendedRTL
21653: 253 unit uPSI_xrtl_util_Value; //ExtendedRTL
21654: 254 unit uPSI_xrtl_util_Compare; //ExtendedRTL
21655: 255 unit uPSI_FlatSB; //VCL
21656: 256 unit uPSI_JvAnalogClock; //JCL
21657: 257 unit uPSI_JvAlarms; //JCL
21658: 258 unit uPSI_JvSQLS; //JCL
21659: 259 unit uPSI_JvDBSecur; //JCL
21660: 260 unit uPSI_JvDBQBE; //JCL
21661: 261 unit uPSI_JvStarfield; //JCL
21662: 262 unit uPSI_JvCLMiscal; //JCL
21663: 263 unit uPSI_JvProfiler32; //JCL
21664: 264 unit uPSI_JvDirectories; //JCL
21665: 265 unit uPSI_JclSchedule; //JCL
21666: 266 unit uPSI_JclSvcCtrl; //JCL
21667: 267 unit uPSI_JvSoundControl; //JCL
21668: 268 unit uPSI_JvBDESQLScript; //JCL
21669: 269 unit uPSI_JvgDigits; //JCL>
21670: 270 unit uPSI_ImgList; //TCustomImageList
21671: 271 unit uPSI_JclMIDI; //JCL>
21672: 272 unit uPSI_JclWinMidi; //JCL>

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21673: 273 unit uPSI_JclNTFS;                                //JCL>
21674: 274 unit uPSI_JclAppInst;                            //JCL>
21675: 275 unit uPSI_JvRle;                                //JCL>
21676: 276 unit uPSI_JvRas22;                             //JCL>
21677: 277 unit uPSI_JvImageDrawThread;                     //JCL>
21678: 278 unit uPSI_JvImageWindow;                         //JCL>
21679: 279 unit uPSI_JvTransparentForm;                      //JCL>
21680: 280 unit uPSI_JvWinDialogs;                          //JCL>
21681: 281 unit uPSI_JvSimLogic;                           //JCL>
21682: 282 unit uPSI_JvSimIndicator;                        //JCL>
21683: 283 unit uPSI_JvSimPID;                            //JCL>
21684: 284 unit uPSI_JvSimPIDLinker;                       //JCL>
21685: 285 unit uPSI_IdRFCReply;                           //Indy
21686: 286 unit uPSI_IdIdent;                            //Indy
21687: 287 unit uPSI_IdIdentServer;                         //Indy
21688: 288 unit uPSI_JvPatchFile;                           //JCL
21689: 289 unit uPSI_StNetPfm;                            //SysTools4
21690: 290 unit uPSI_StNet;                               //SysTools4
21691: 291 unit uPSI_JclPeImage;                           //JCL
21692: 292 unit uPSI_JclPrint;                            //JCL
21693: 293 unit uPSI_JclMime;                            //JCL
21694: 294 unit uPSI_JvRichEdit;                           //JCL
21695: 295 unit uPSI_JvDBRichEd;                          //JCL
21696: 296 unit uPSI_JvDice;                             //JCL
21697: 297 unit uPSI_JvFloatEdit;                          //JCL 3.9.8
21698: 298 unit uPSI_JvDirFrm;                            //JCL
21699: 299 unit uPSI_JvDualList;                           //JCL
21700: 300 unit uPSI_JvSwitch;                            //JCL
21701: 301 unit uPSI_JvTimerLst;                           //JCL
21702: 302 unit uPSI_JvMemTable;                          //JCL
21703: 303 unit uPSI_JvObjStr;                            //JCL
21704: 304 unit uPSI_StLArr;                            //SysTools4
21705: 305 unit uPSI_StWmDCpy;                           //SysTools4
21706: 306 unit uPSI_StText;                            //SysTools4
21707: 307 unit uPSI_StNTLog;                            //SysTools4
21708: 308 unit uPSI_xrtl_math_Integer;                  //ExtendedRTL
21709: 309 unit uPSI_JvImagPrvw;                          //JCL
21710: 310 unit uPSI_JvFormPatch;                         //JCL
21711: 311 unit uPSI_JvPicClip;                           //JCL
21712: 312 unit uPSI_JvDataConv;                          //JCL
21713: 313 unit uPSI_JvCpuUsage;                          //JCL
21714: 314 unit uPSI_JclUnitConv_mx2;                    //JCL
21715: 315 unit JvDualListForm;                           //JCL
21716: 316 unit uPSI_JvCpuUsage2;                         //JCL
21717: 317 unit uPSI_JvParserForm;                         //JCL
21718: 318 unit uPSI_JvJanTreeView;                       //JCL
21719: 319 unit uPSI_JvTransLED;                           //JCL
21720: 320 unit uPSI_JvPlaylist;                          //JCL
21721: 321 unit uPSI_JvFormAutoSize;                      //JCL
21722: 322 unit uPSI_JvYearGridEditForm;                 //JCL
21723: 323 unit uPSI_JvMarkupCommon;                     //JCL
21724: 324 unit uPSI_JvChart;                            //JCL
21725: 325 unit uPSI_JvXPCore;                           //JCL
21726: 326 unit uPSI_JvXPCoreUtils;                      //JCL
21727: 327 unit uPSI_StatsClasses;                        //mX4
21728: 328 unit uPSI_ExtCtrls2;                           //VCL
21729: 329 unit uPSI_JvUrlGrabbers;                      //JCL
21730: 330 unit uPSI_JvXmlTree;                           //JCL
21731: 331 unit uPSI_JvWavePlayer;                        //JCL
21732: 332 unit uPSI_JvUnicodeCanvas;                     //JCL
21733: 333 unit uPSI_JvTFUtils;                           //JCL
21734: 334 unit uPSI_IdServerIOHandler;                 //Indy
21735: 335 unit uPSI_IdServerIOHandlerSocket;            //Indy
21736: 336 unit uPSI_IdMessageCoder;                      //Indy
21737: 337 unit uPSI_IdMessageCoderMIME;                 //Indy
21738: 338 unit uPSI_IdMIMBTypes;                         //Indy
21739: 339 unit uPSI_JvConverter;                          //JCL
21740: 340 unit uPSI_JvCsvParse;                           //JCL
21741: 341 unit uPSI_umath;    unit uPSI_ugamma;           //DMath
21742: 342 unit uPSI_ExcelExport; (Nat:TJsExcelExport) //JCL
21743: 343 unit uPSI_JvDBGridExport;                      //JCL
21744: 344 unit uPSI_JvgExport;                           //JCL
21745: 345 unit uPSI_JvSerialMaker;                        //JCL
21746: 346 unit uPSI_JvWin32;                            //JCL
21747: 347 unit uPSI_JvPaintFX;                           //JCL
21748: 348 unit uPSI_JvOracleDataSet; (beta)             //JCL
21749: 349 unit uPSI_JvValidators; (preview)             //JCL
21750: 350 unit uPSI_JvNTEventLog;                         //JCL
21751: 351 unit uPSI_ShellZipTool;                         //mX4
21752: 352 unit uPSI_JvJoystick;                           //JCL
21753: 353 unit uPSI_JvMailSlots;                          //JCL
21754: 354 unit uPSI_JclComplex;                           //JCL
21755: 355 unit uPSI_SynPdf;                            //Synopse
21756: 356 unit uPSI_Registry;                           //VCL
21757: 357 unit uPSI_TlHelp32;                            //VCL
21758: 358 unit uPSI_JclRegistry;                         //JCL
21759: 359 unit uPSI_JvAirBrush;                           //JCL
21760: 360 unit uPSI_mORMotReport;                        //Synopse
21761: 361 unit uPSI_JclLocales;                          //JCL

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21762: 362 unit uPSI_SynEdit; //SynEdit
21763: 363 unit uPSI_SynEditTypes; //SynEdit
21764: 364 unit uPSI_SynMacroRecorder; //SynEdit
21765: 365 unit uPSI_LongIntList; //SynEdit
21766: 366 unit uPSI_devutils; //DevC
21767: 367 unit uPSI_SynEditMiscClasses; //SynEdit
21768: 368 unit uPSI_SynEditRegexSearch; //SynEdit
21769: 369 unit uPSI_SynEditHighlighter; //SynEdit
21770: 370 unit uPSI_SynHighlighterPas; //SynEdit
21771: 371 unit uPSI_JvSearchFiles; //JCL
21772: 372 unit uPSI_SynHighlighterAny; //Lazarus
21773: 373 unit uPSI_SynEditKeyCmds; //SynEdit
21774: 374 unit uPSI_SynEditMiscProcs; //SynEdit
21775: 375 unit uPSI_SynEditKbdHandler; //SynEdit
21776: 376 unit uPSI_JvAppInst; //JCL
21777: 377 unit uPSI_JvAppEvent; //JCL
21778: 378 unit uPSI_JvAppCommand; //JCL
21779: 379 unit uPSI_JvAnimTitle; //JCL
21780: 380 unit uPSI_JvAnimatedImage; //JCL
21781: 381 unit uPSI_SynEditExport; //SynEdit
21782: 382 unit uPSI_SynExportHTML; //SynEdit
21783: 383 unit uPSI_SynExportRTF; //SynEdit
21784: 384 unit uPSI_SynEditSearch; //SynEdit
21785: 385 unit uPSI_fMain_back; //maxbox;
21786: 386 unit uPSI_JvZoom; //JCL
21787: 387 unit uPSI_PMrand; //PM
21788: 388 unit uPSI_JvSticker; //JCL
21789: 389 unit uPSI_XmlVerySimple; //mX4
21790: 390 unit uPSI_Services; //ExtPascal
21791: 391 unit uPSI_ExtPascalUtils; //ExtPascal
21792: 392 unit uPSI_SocketsDelphi; //ExtPascal
21793: 393 unit uPSI_StBarC; //SysTools
21794: 394 unit uPSI_StDbBarC; //SysTools
21795: 395 unit uPSI_StBarPN; //SysTools
21796: 396 unit uPSI_StDbPNBC; //SysTools
21797: 397 unit uPSI_StDb2DBC; //SysTools
21798: 398 unit uPSI_StMoney; //SysTools
21799: 399 unit uPSI_JvForth; //JCL
21800: 400 unit uPSI_RestRequest; //mX4
21801: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
21802: 402 unit uPSI_JvXmlDatabase; //update //JCL
21803: 403 unit uPSI_StAstro; //SysTools
21804: 404 unit uPSI_StSort; //SysTools
21805: 405 unit uPSI_StDate; //SysTools
21806: 406 unit uPSI_StDateSt; //SysTools
21807: 407 unit uPSI_StBase; //SysTools
21808: 408 unit uPSI_StVInfo; //SysTools
21809: 409 unit uPSI_JvBrowseFolder; //JCL
21810: 410 unit uPSI_JvBoxProcs; //JCL
21811: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
21812: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
21813: 413 unit uPSI_JvHighlighter; //JCL
21814: 414 unit uPSI_Diff; //mX4
21815: 415 unit uPSI_SpringWinAPI; //DSpring
21816: 416 unit uPSI_StBits; //SysTools
21817: 417 unit uPSI_TomDBQue; //mX4
21818: 418 unit uPSI_MultilangTranslator; //mX4
21819: 419 unit uPSI_HyperLabel; //mX4
21820: 420 unit uPSI_Starter; //mX4
21821: 421 unit uPSI_FileAssoc; //devC
21822: 422 unit uPSI_devFileMonitorX; //devC
21823: 423 unit uPSI_devrunt; //devC
21824: 424 unit uPSI_devExec; //devC
21825: 425 unit uPSI_oyxUtils; //devC
21826: 426 unit uPSI_DosCommand; //devC
21827: 427 unit uPSI_CppTokenizer; //devC
21828: 428 unit uPSI_JvHLParser; //devC
21829: 429 unit uPSI_JclMapi; //JCL
21830: 430 unit uPSI_JclShell; //JCL
21831: 431 unit uPSI_JclCOM; //JCL
21832: 432 unit uPSI_GR32_Math; //Graphics32
21833: 433 unit uPSI_GR32_LowLevel; //Graphics32
21834: 434 unit uPSI_SimpleHl; //mX4
21835: 435 unit uPSI_GR32_Filters; //Graphics32
21836: 436 unit uPSI_GR32_VectorMaps; //Graphics32
21837: 437 unit uPSI_cXMLFunctions; //Fundamentals 4
21838: 438 unit uPSI_JvTimer; //JCL
21839: 439 unit uPSI_cHTTPUtilities; //Fundamentals 4
21840: 440 unit uPSI_cTLSUtils; //Fundamentals 4
21841: 441 unit uPSI_JclGraphics; //JCL
21842: 442 unit uPSI_JclSynch; //JCL
21843: 443 unit uPSI_IdTelnet; //Indy
21844: 444 unit uPSI_IdTelnetServer; //Indy
21845: 445 unit uPSI_IdEcho; //Indy
21846: 446 unit uPSI_IdEchoServer; //Indy
21847: 447 unit uPSI_IdEchoUDP; //Indy
21848: 448 unit uPSI_IdEchoUDPServer; //Indy
21849: 449 unit uPSI_IdSocks; //Indy
21850: 450 unit uPSI_IdAntiFreezeBase; //Indy

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21851: 451 unit uPSI_IdHostnameServer;           //Indy
21852: 452 unit uPSI_IdTunnelCommon;           //Indy
21853: 453 unit uPSI_IdTunnelMaster;           //Indy
21854: 454 unit uPSI_IdTunnelSlave;           //Indy
21855: 455 unit uPSI_IdRSH;                   //Indy
21856: 456 unit uPSI_IdRSHServer;             //Indy
21857: 457 unit uPSI_Spring_Cryptography_Utils; //Spring4Delphi
21858: 458 unit uPSI_MapReader;                //devC
21859: 459 unit uPSI_LibTar;                   //devC
21860: 460 unit uPSI_IdStack;                  //Indy
21861: 461 unit uPSI_IdBlockCipherIntercept;   //Indy
21862: 462 unit uPSI_IdChargenServer;         //Indy
21863: 463 unit uPSI_IdFTPServer;             //Indy
21864: 464 unit uPSI_IdException;              //Indy
21865: 465 unit uPSI_utexplor;                //DMath
21866: 466 unit uPSI_uwinstr;                 //DMath
21867: 467 unit uPSI_VarRecUtils;              //devC
21868: 468 unit uPSI_JvStringListToHtml;       //JCL
21869: 469 unit uPSI_JvStringHolder;            //JCL
21870: 470 unit uPSI_IdCoder;                  //Indy
21871: 471 unit uPSI_SynHighlighterDfm;        //Synedit
21872: 472 unit uHighlighterProcs; in 471      //Synedit
21873: 473 unit uPSI_LazFileUtils;              //LCL
21874: 474 unit uPSI_IDECmdLine;               //LCL
21875: 475 unit uPSI_lazMasks;                //LCL
21876: 476 unit uPSI_ip_misc;                 //mX4
21877: 477 unit uPSI_Barcodes;                //LCL
21878: 478 unit uPSI_SimpleXML;               //LCL
21879: 479 unit uPSI_JclIniFiles;              //JCL
21880: 480 unit uPSI_D2XXUnit; { $x- }          //FTDI
21881: 481 unit uPSI_JclDateTime;              //JCL
21882: 482 unit uPSI_JclEDI;                  //JCL
21883: 483 unit uPSI_JclMiscel2;              //JCL
21884: 484 unit uPSI_JclValidation;            //JCL
21885: 485 unit uPSI_JclAnsiStrings; {-PString} //JCL
21886: 486 unit uPSI_SynEditMiscProcs2;        //Synedit
21887: 487 unit uPSI_JclStreams;               //JCL
21888: 488 unit uPSI_QRCode;                  //mX4
21889: 489 unit uPSI_BlockSocket;              //ExtPascal
21890: 490 unit uPSI_Masks_Utils;              //VCL
21891: 491 unit uPSI_synautil;                //Synapse!
21892: 492 unit uPSI_JclMath_Class;            //JCL RTL
21893: 493 unit ugamdist; //Gamma function    //DMath
21894: 494 unit uibeta, ucorrel; //IBeta       //DMath
21895: 495 unit uPSI_SRMgr;                   //mX4
21896: 496 unit uPSI_HotLog;                  //mX4
21897: 497 unit uPSI_DebugBox;                //mX4
21898: 498 unit uPSI_ustrings;                //DMath
21899: 499 unit uPSI_uregtest;                //DMath
21900: 500 unit uPSI_usimplex;                //DMath
21901: 501 unit uPSI_uhyper;                  //DMath
21902: 502 unit uPSI_IdHL7;                  //Indy
21903: 503 unit uPSI_IdIPMCastBase;           //Indy
21904: 504 unit uPSI_IdIPMCastServer;         //Indy
21905: 505 unit uPSI_IdIPMCastClient;         //Indy
21906: 506 unit uPSI_unlfit; //nlregression //DMath
21907: 507 unit uPSI_IdRawHeaders;             //Indy
21908: 508 unit uPSI_IdRawClient;              //Indy
21909: 509 unit uPSI_IdRawFunctions;           //Indy
21910: 510 unit uPSI_IdTCPStream;              //Indy
21911: 511 unit uPSI_IdSNPP;                  //Indy
21912: 512 unit uPSI_St2DBarC;                //SysTools
21913: 513 unit uPSI_ImageWin; //FTL           //VCL
21914: 514 unit uPSI_CustomDrawTreeView; //FTL    //VCL
21915: 515 unit uPSI_GraphWin; //FTL           //VCL
21916: 516 unit uPSI_actionMain; //FTL          //VCL
21917: 517 unit uPSI_StSpawn;                  //SysTools
21918: 518 unit uPSI_CtlPanel;                //VCL
21919: 519 unit uPSI_IdLPR;                   //Indy
21920: 520 unit uPSI_SockRequestInterpreter;   //Indy
21921: 521 unit uPSI_ulambert;                //DMath
21922: 522 unit uPSI_ucholesk;                //DMath
21923: 523 unit uPSI_SimpleDS;                //VCL
21924: 524 unit uPSI_DBXSqlScanner;            //VCL
21925: 525 unit uPSI_DBXMetaDataTable;         //VCL
21926: 526 unit uPSI_Chart;                   //TEE
21927: 527 unit uPSI_TeeProcs;                //TEE
21928: 528 unit mXBDEUtils;                  //mX4
21929: 529 unit uPSI_MDIEdit;                 //VCL
21930: 530 unit uPSI_CopyPsr;                 //VCL
21931: 531 unit uPSI_SockApp;                 //VCL
21932: 532 unit uPSI_AppEvnts;                //VCL
21933: 533 unit uPSI_ExtActns;                //VCL
21934: 534 unit uPSI_TeEngine;                //TEE
21935: 535 unit uPSI_CoolMain; //browser     //VCL
21936: 536 unit uPSI_StCRC;                  //SysTools
21937: 537 unit uPSI_StDecMth2;                //SysTools
21938: 538 unit uPSI_frmExportMain;             //Synedit
21939: 539 unit uPSI_SynDBEdit;                //Synedit

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21940: 540 unit uPSI_SynEditWildcardSearch;           //Synedit
21941: 541 unit uPSI_BoldComUtils;                  //BOLD
21942: 542 unit uPSI_BoldIsoDateTime;                //BOLD
21943: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils    //BOLD
21944: 544 unit uPSI_BoldXMLRequests;               //BOLD
21945: 545 unit uPSI_BoldStringList;                 //BOLD
21946: 546 unit uPSI_BoldFileHandler;                //BOLD
21947: 547 unit uPSI_BoldContainers;                 //BOLD
21948: 548 unit uPSI_BoldQueryUserDlg;               //BOLD
21949: 549 unit uPSI_BoldWinINet;                   //BOLD
21950: 550 unit uPSI_BoldQueue;                     //BOLD
21951: 551 unit uPSI_JvPcx;                        //JCL
21952: 552 unit uPSI_IdWhois;                      //Indy
21953: 553 unit uPSI_IdWhoIsServer;                //Indy
21954: 554 unit uPSI_IdGopher;                     //Indy
21955: 555 unit uPSI_IdDateTimeStamp;               //Indy
21956: 556 unit uPSI_IdDayTimeServer;              //Indy
21957: 557 unit uPSI_IdDayTimeUDP;                 //Indy
21958: 558 unit uPSI_IdDayTimeUDPServer;           //Indy
21959: 559 unit uPSI_IdDICTServer;                 //Indy
21960: 560 unit uPSI_IdDiscardServer;               //Indy
21961: 561 unit uPSI_IdDiscardUDPServer;            //Indy
21962: 562 unit uPSI_IdMappedFTP;                  //Indy
21963: 563 unit uPSI_IdMappedPortTCP;               //Indy
21964: 564 unit uPSI_IdGopherServer;                //Indy
21965: 565 unit uPSI_IdQotdServer;                 //Indy
21966: 566 unit uPSI_JvRgbToHtml;                  //JCL
21967: 567 unit uPSI_JvRemLog;                     //JCL
21968: 568 unit uPSI_JvSysComp;                   //JCL
21969: 569 unit uPSI_JvTMTL;                      //JCL
21970: 570 unit uPSI_JvWinampAPI;                  //JCL
21971: 571 unit uPSI_MSysUtils;                   //mX4
21972: 572 unit uPSI_ESBMaths;                     //ESB
21973: 573 unit uPSI_ESBMaths2;                   //ESB
21974: 574 unit uPSI_uLkJSON;                     //Lk
21975: 575 unit uPSI_ZURL; //Zeos                //Zeos
21976: 576 unit uPSI_ZSysUtils;                  //Zeos
21977: 577 unit unaUtils internals;                //UNA
21978: 578 unit uPSI_ZMatchPattern;               //Zeos
21979: 579 unit uPSI_ZClasses;                    //Zeos
21980: 580 unit uPSI_ZCollections;                //Zeos
21981: 581 unit uPSI_ZEncoding;                   //Zeos
21982: 582 unit uPSI_IdRawBase;                  //Indy
21983: 583 unit uPSI_IdNTLM;                     //Indy
21984: 584 unit uPSI_IdNNTP;                     //Indy
21985: 585 unit uPSI_usniffer; //PortScanForm   //mX4
21986: 586 unit uPSI_IdCoderMIME;                 //Indy
21987: 587 unit uPSI_IdCoderUUE;                  //Indy
21988: 588 unit uPSI_IdCoderXXE;                  //Indy
21989: 589 unit uPSI_IdCoder3to4;                 //Indy
21990: 590 unit uPSI_IdCookie;                   //Indy
21991: 591 unit uPSI_IdCookieManager;             //Indy
21992: 592 unit uPSI_WDOSocketUtils;              //WDOS
21993: 593 unit uPSI_WDOSPlcUtils;                //WDOS
21994: 594 unit uPSI_WDOSPorts;                  //WDOS
21995: 595 unit uPSI_WDOSResolvers;              //WDOS
21996: 596 unit uPSI_WDOSTimers;                 //WDOS
21997: 597 unit uPSI_WDOSPlcs;                   //WDOS
21998: 598 unit uPSI_WDOSPneumatics;              //WDOS
21999: 599 unit uPSI_IdFingerServer;              //Indy
22000: 600 unit uPSI_IdDNSResolver;                //Indy
22001: 601 unit uPSI_IdHTTPWebBrokerBridge;       //Indy
22002: 602 unit uPSI_IdIntercept;                 //Indy
22003: 603 unit uPSI_IdIPMCastBase;               //Indy
22004: 604 unit uPSI_IdLogBase;                   //Indy
22005: 605 unit uPSI_IdIOHandlerStream;            //Indy
22006: 606 unit uPSI_IdMappedPortUDP;              //Indy
22007: 607 unit uPSI_IdQOTDUDPServer;             //Indy
22008: 608 unit uPSI_IdQOTDUDP;                  //Indy
22009: 609 unit uPSI_IdSysLog;                   //Indy
22010: 610 unit uPSI_IdSysLogServer;               //Indy
22011: 611 unit uPSI_IdSysLogMessage;              //Indy
22012: 612 unit uPSI_IdTimeServer;                 //Indy
22013: 613 unit uPSI_IdTimeUDP;                  //Indy
22014: 614 unit uPSI_IdTimeUDPServer;              //Indy
22015: 615 unit uPSI_IdUserAccounts;               //Indy
22016: 616 unit uPSI_TextUtils;                   //mX4
22017: 617 unit uPSI_MandelbrotEngine;             //mX4
22018: 618 unit uPSI_delphi_arduino_Unit1;         //mX4
22019: 619 unit uPSI_DTDSchema2;                  //mX4
22020: 620 unit uPSI_fpplotMain;                  //DMath
22021: 621 unit uPSI_FindFileIter;                 //mX4
22022: 622 unit uPSI_PppState; (JclStrHashMap) //PPP
22023: 623 unit uPSI_PppParser;                   //PPP
22024: 624 unit uPSI_PppLexer;                   //PPP
22025: 625 unit uPSI_PcharUtils;                 //PPP
22026: 626 unit uPSI_uJSON;                      //WU
22027: 627 unit uPSI_JclStrHashMap;                //JCL
22028: 628 unit uPSI_JclHookExcept;                //JCL

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22029: 629 unit uPSI_EncdDecd; //VCL
22030: 630 unit uPSI_SockAppReg; //VCL
22031: 631 unit uPSI_PJFileHandle; //PJ
22032: 632 unit uPSI_PJEnvVars; //PJ
22033: 633 unit uPSI_PJPipe; //PJ
22034: 634 unit uPSI_PJPipeFilters; //PJ
22035: 635 unit uPSI_PJConsoleApp; //PJ
22036: 636 unit uPSI_UConsoleAppEx; //PJ
22037: 637 unit uPSI_DbxSocketChannelNative; //VCL
22038: 638 unit uPSI_DbxDataGenerator; //VCL
22039: 639 unit uPSI_DBXClient; //VCL
22040: 640 unit uPSI_IdLogEvent; //Indy
22041: 641 unit uPSI_Reversi; //mX4
22042: 642 unit uPSI_Geometry; //mX4
22043: 643 unit uPSI_IdSMTPServer; //Indy
22044: 644 unit uPSI_Textures; //mX4
22045: 645 unit uPSI_IBX; //VCL
22046: 646 unit uPSI_IWDBCommon; //VCL
22047: 647 unit uPSI_SortGrid; //mX4
22048: 648 unit uPSI_IB; //VCL
22049: 649 unit uPSI_IBScript; //VCL
22050: 650 unit uPSI_JvCSVBaseControls; //JCL
22051: 651 unit uPSI_Jvg3DColors; //JCL
22052: 652 unit uPSI_JvHLEditor; //beat //JCL
22053: 653 unit uPSI_JvShellHook; //JCL
22054: 654 unit uPSI_DBCommon2; //VCL
22055: 655 unit uPSI_JvSHFfileOperation; //JCL
22056: 656 unit uPSI_uFilexport; //mX4
22057: 657 unit uPSI_JvDialogs; //JCL
22058: 658 unit uPSI_JvDBTreeView; //JCL
22059: 659 unit uPSI_JvDBUltimGrid; //JCL
22060: 660 unit uPSI_JvDBQueryParamsForm; //JCL
22061: 661 unit uPSI_JvExControls; //JCL
22062: 662 unit uPSI_JvBDEMemTable; //JCL
22063: 663 unit uPSI_JvCommStatus; //JCL
22064: 664 unit uPSI_JvMailSlots2; //JCL
22065: 665 unit uPSI_JvgWinMask; //JCL
22066: 666 unit uPSI_StEclipse; //SysTools
22067: 667 unit uPSI_StMime; //SysTools
22068: 668 unit uPSI_StList; //SysTools
22069: 669 unit uPSI_StMerge; //SysTools
22070: 670 unit uPSI_StStrS; //SysTools
22071: 671 unit uPSI_StTree; //SysTools
22072: 672 unit uPSI_StVArr; //SysTools
22073: 673 unit uPSI_StRegini; //SysTools
22074: 674 unit uPSI_urkf; //DMath
22075: 675 unit uPSI_usvd; //DMath
22076: 676 unit uPSI_DepWalkUtils; //JCL
22077: 677 unit uPSI_OptionsFrm; //JCL
22078: 678 unit yuvconverts; //mX4
22079: 679 uPSI_JvPropAutoSave; //JCL
22080: 680 uPSI_AclAPI; //alcinoe
22081: 681 uPSI_AviCap; //alcinoe
22082: 682 uPSI_ALAVLBinaryTree; //alcinoe
22083: 683 uPSI_ALFcnnMisc; //alcinoe
22084: 684 uPSI_ALStringList; //alcinoe
22085: 685 uPSI_ALQuickSortList; //alcinoe
22086: 686 uPSI_ALStaticText; //alcinoe
22087: 687 uPSI_ALJSONDoc; //alcinoe
22088: 688 uPSI_ALGSMComm; //alcinoe
22089: 689 uPSI_ALWindows; //alcinoe
22090: 690 uPSI_ALMultiPartFormDataParser; //alcinoe
22091: 691 uPSI_ALHttpCommon; //alcinoe
22092: 692 uPSI_ALWebSpider; //alcinoe
22093: 693 uPSI_ALHttpClient; //alcinoe
22094: 694 uPSI_ALFcnnHTML; //alcinoe
22095: 695 uPSI_ALFTPclient; //alcinoe
22096: 696 uPSI_ALInternetMessageCommon; //alcinoe
22097: 697 uPSI_ALWininetHttpClient; //alcinoe
22098: 698 uPSI_ALWinInetFTPClient; //alcinoe
22099: 699 uPSI_ALWinHttpWrapper; //alcinoe
22100: 700 uPSI_ALWinHttpclient; //alcinoe
22101: 701 uPSI_ALFcnnWinSock; //alcinoe
22102: 702 uPSI_ALFcnnSQL; //alcinoe
22103: 703 uPSI_ALFcnnCGI; //alcinoe
22104: 704 uPSI_ALFcnnExecute; //alcinoe
22105: 705 uPSI_ALFcnnFile; //alcinoe
22106: 706 uPSI_ALFcnnMime; //alcinoe
22107: 707 uPSI_ALPhpRunner; //alcinoe
22108: 708 uPSI_ALGraphic; //alcinoe
22109: 709 uPSI_ALIniFiles; //alcinoe
22110: 710 uPSI_ALMemCachedClient; //alcinoe
22111: 711 unit uPSI_MyGrids; //mX4
22112: 712 uPSI_ALMultiPartMixedParser //alcinoe
22113: 713 uPSI_ALSMTPClient //alcinoe
22114: 714 uPSI_ALNNTPClient; //alcinoe
22115: 715 uPSI_ALHintBalloon; //alcinoe
22116: 716 unit uPSI_ALXmlDoc; //alcinoe
22117: 717 unit uPSI_IPCThrd; //VCL

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22118: 718 unit uPSI_MonForm;                                //VCL
22119: 719 unit uPSI_TeCanvas;                               //Orpheus
22120: 720 unit uPSI_Ovcmisc;                               //Orpheus
22121: 721 unit uPSI_ocvfiler;                             //Orpheus
22122: 722 unit uPSI_ocvstate;                            //Orpheus
22123: 723 unit uPSI_occcoco;                            //Orpheus
22124: 724 unit uPSI_ovcrvexp;                           //Orpheus
22125: 725 unit uPSI_OvcFormatSettings;                  //Orpheus
22126: 726 unit uPSI_OvcUtils;                            //Orpheus
22127: 727 unit uPSI_ocvstore;                           //Orpheus
22128: 728 unit uPSI_ocvstr;                            //Orpheus
22129: 729 unit uPSI_ocvcmru;                           //Orpheus
22130: 730 unit uPSI_occcmd;                            //Orpheus
22131: 731 unit uPSI_ocvtimer;                           //Orpheus
22132: 732 unit uPSI_ocvintl;                            //Orpheus
22133: 733 uPSI_AfCircularBuffer;                      //AsyncFree
22134: 734 uPSI_AfUtils;                                //AsyncFree
22135: 735 uPSI_AfSafeSync;                            //AsyncFree
22136: 736 uPSI_AfComPortCore;                          //AsyncFree
22137: 737 uPSI_AfComPort;                            //AsyncFree
22138: 738 uPSI_AfPortControls;                        //AsyncFree
22139: 739 uPSI_AfDataDispatcher;                      //AsyncFree
22140: 740 uPSI_AfViewers;                            //AsyncFree
22141: 741 uPSI_AfDataTerminal;                        //AsyncFree
22142: 742 uPSI_SimplePortMain;                         //AsyncFree
22143: 743 unit uPSI_ovcclock;                           //Orpheus
22144: 744 unit uPSI_o32intlst;                          //Orpheus
22145: 745 unit uPSI_o32ledlabel;                        //Orpheus
22146: 746 unit uPSI_AlMySqlClient;                     //alcinoe
22147: 747 unit uPSI_ALFBXClient;                       //alcinoe
22148: 748 unit uPSI_ALFcnsSQL;                         //alcinoe
22149: 749 unit uPSI_AsyncTimer;                         //mX4
22150: 750 unit uPSI_ApplicationFileIO;                 //mX4
22151: 751 unit uPSI_PsAPI;                            //VCLé
22152: 752 uPSI_ovcuser;                                //Orpheus
22153: 753 uPSI_ovcurl;                                //Orpheus
22154: 754 uPSI_ovcvlb;                                //Orpheus
22155: 755 uPSI_ovccolor;                            //Orpheus
22156: 756 uPSI_ALFBXLib;                            //alcinoe
22157: 757 uPSI_ovcmeter;                            //Orpheus
22158: 758 uPSI_ovcpeakm;                            //Orpheus
22159: 759 uPSI_O32BGSty;                            //Orpheus
22160: 760 uPSI_ovcBidi;                                //Orpheus
22161: 761 uPSI_ovctcarry;                           //Orpheus
22162: 762 uPSI_DXPUtils;                            //mX4
22163: 763 uPSI_ALMultiPartBaseParser;                //alcinoe
22164: 764 uPSI_ALMultiPartAlternativeParser;          //alcinoe
22165: 765 uPSI_ALPOP3Client;                          //alcinoe
22166: 766 uPSI_SmallUtils;                            //mX4
22167: 767 uPSI_MakeApp;                                //mX4
22168: 768 uPSI_O32MouseMon;                           //Orpheus
22169: 769 uPSI_OvcCache;                            //Orpheus
22170: 770 uPSI_ovccalc;                                //Orpheus
22171: 771 uPSI_Joystick;                            //OpenGL
22172: 772 uPSI_ScreenSaver;                           //OpenGL
22173: 773 uPSI_XCollection;                          //OpenGL
22174: 774 uPSI_Polynomials;                          //OpenGL
22175: 775 uPSI_PersistentClasses; //9.86           //OpenGL
22176: 776 uPSI_VectorLists;                           //OpenGL
22177: 777 uPSI_XOpenGL;                            //OpenGL
22178: 778 uPSI_MeshUtils;                           //OpenGL
22179: 779 unit uPSI_JclSysUtils;                     //JCL
22180: 780 unit uPSI_JclBorlandTools;                  //JCL
22181: 781 unit JclFileUtils_max;                      //JCL
22182: 782 uPSI_AfDataControls;                      //AsyncFree
22183: 783 uPSI_GLSilhouette;                         //OpenGL
22184: 784 uPSI_JclSysUtils_class;                    //JCL
22185: 785 uPSI_JclFileUtils_class;                   //JCL
22186: 786 uPSI_FileUtil;                            //JCL
22187: 787 uPSI_changefind;                           //mX4
22188: 788 uPSI_cmdIntf;                            //mX4
22189: 789 uPSI_fservice;                            //mX4
22190: 790 uPSI_Keyboard;                            //OpenGL
22191: 791 uPSI_VRMLParser;                           //OpenGL
22192: 792 uPSI_GLFileVRML;                          //OpenGL
22193: 793 uPSI_Octree;                            //OpenGL
22194: 794 uPSI_GLPolyhedron;                        //OpenGL
22195: 795 uPSI_GLCrossPlatform;                     //OpenGL
22196: 796 uPSI_GLParticles;                          //OpenGL
22197: 797 uPSI_GLNavigator;                          //OpenGL
22198: 798 uPSI_GLStarRecord;                        //OpenGL
22199: 799 uPSI_GLTextureCombiners;                  //OpenGL
22200: 800 uPSI_GLCanvas;                            //OpenGL
22201: 801 uPSI_GeometryBB;                           //OpenGL
22202: 802 uPSI_GeometryCoordinates;                 //OpenGL
22203: 803 uPSI_VectorGeometry;                      //OpenGL
22204: 804 uPSI_BumpMapping;                          //OpenGL
22205: 805 uPSI_TGA;                                //OpenGL
22206: 806 uPSI_GLVectorFileObjects;                 //OpenGL

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22207: 807 uPSI_IMM; //VCL
22208: 808 uPSI_CategoryButtons; //VCL
22209: 809 uPSI_ButtonGroup; //VCL
22210: 810 uPSI_DbExcept; //VCL
22211: 811 uPSI_AxCtrls; //VCL
22212: 812 uPSI_GL_actorUnit1; //OpenGL
22213: 813 uPSI_StdVCL; //VCL
22214: 814 unit CurvesAndSurfaces; //OpenGL
22215: 815 uPSI_DataAwareMain; //AsyncFree
22216: 816 uPSI_TabNotBk; //VCL
22217: 817 uPSI_udwsfiler; //mX4
22218: 818 uPSI_synaip; //Synapse!
22219: 819 uPSI_synacode; //Synapse
22220: 820 uPSI_synachar; //Synapse
22221: 821 uPSI_synamisc; //Synapse
22222: 822 uPSI_synaser; //Synapse
22223: 823 uPSI_synaicnv; //Synapse
22224: 824 uPSI_tlntrsend; //Synapse
22225: 825 uPSI_pingsend; //Synapse
22226: 826 uPSI_blksock; //Synapse
22227: 827 uPSI_asnlutil; //Synapse
22228: 828 uPSI_dnssend; //Synapse
22229: 829 uPSI_clamsend; //Synapse
22230: 830 uPSI_ldapsend; //Synapse
22231: 831 uPSI_mimemess; //Synapse
22232: 832 uPSI_slogsend; //Synapse
22233: 833 uPSI_mimepart; //Synapse
22234: 834 uPSI_mimeinln; //Synapse
22235: 835 uPSI_ftpsend; //Synapse
22236: 836 uPSI_ftptsend; //Synapse
22237: 837 uPSI_httpsend; //Synapse
22238: 838 uPSI_sntpsendl; //Synapse
22239: 839 uPSI_smtpsend; //Synapse
22240: 840 uPSI_snmpsend; //Synapse
22241: 841 uPSI_imapsend; //Synapse
22242: 842 uPSI_pop3send; //Synapse
22243: 843 uPSI_ntpssend; //Synapse
22244: 844 uPSI_ssl_cryptlib; //Synapse
22245: 845 uPSI_ssl_openssl; //Synapse
22246: 846 uPSI_synhttp_daemon; //Synapse
22247: 847 uPSI_NetWork; //mX4
22248: 848 uPSI_PingThread; //Synapse
22249: 849 uPSI_JvThreadTimer; //JCL
22250: 850 unit uPSI_wwSystem; //InfoPower
22251: 851 unit uPSI_IdComponent; //Indy
22252: 852 unit uPSI_IdIOHandlerThrottle; //Indy
22253: 853 unit uPSI_Themes; //VCL
22254: 854 unit uPSI_StdStyleActnCtrls; //VCL
22255: 855 unit uPSI_UDDIHelper; //VCL
22256: 856 unit uPSI_IdIMAP4Server; //Indy
22257: 857 uPSI_VariantSymbolTable; //VCL //3.9.9.92
22258: 858 uPSI_udf_glob; //mX4
22259: 859 uPSI_TabGrid; //VCL
22260: 860 uPSI_JsDBTreeView; //mX4
22261: 861 uPSI_JsSendMail; //mX4
22262: 862 uPSI_dbTvRecordList; //mX4
22263: 863 uPSI_TreeVwEx; //mX4
22264: 864 uPSI_ECDataLink; //mX4
22265: 865 uPSI_dbTree; //mX4
22266: 866 uPSI_dbTreeCBox; //mX4
22267: 867 unit uPSI_Debug; //TfrmDebug //mX4
22268: 868 uPSI_TimeFncs; //mX4
22269: 869 uPSI_FileIntf; //VCL
22270: 870 uPSI_SockTransport; //RTL
22271: 871 unit uPSI_WinInet; //RTL
22272: 872 unit uPSI_WWSTR; //mX4
22273: 873 uPSI_DBLookup; //VCL
22274: 874 uPSI_Hotspot; //mX4
22275: 875 uPSI_HList; //History List //mX4
22276: 876 unit uPSI_DrTable; //VCL
22277: 877 uPSI_TConnect; //VCL
22278: 878 uPSI_DataBkr; //VCL
22279: 879 uPSI_HTTPIntr; //VCL
22280: 880 unit uPSI_Mathbox; //mX4
22281: 881 uPSI_cyIndy; //cY
22282: 882 uPSI_cySysUtils; //cY
22283: 883 uPSI_cyWinUtils; //cY
22284: 884 uPSI_cyStrUtils; //cY
22285: 885 uPSI_cyObjUtils; //cY
22286: 886 uPSI_cyDateUtils; //cY
22287: 887 uPSI_cyBDE; //cY
22288: 888 uPSI_cyClasses; //cY
22289: 889 uPSI_cyGraphics, //3.9.9.94_2 //cY
22290: 890 unit uPSI_cyTypes; //cY
22291: 891 uPSI_JvDateTimePicker; //JCL
22292: 892 uPSI_JvCreateProcess; //JCL
22293: 893 uPSI_JvEasterEgg; //JCL
22294: 894 uPSI_WinSvc, //3.9.9.94_3 //VCL
22295: 895 uPSI_SvcMgr //VCL

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22296: 896 unit uPSI_JvPickDate; //JCL
22297: 897 unit uPSI_JvNotify; //JCL
22298: 898 uPSI_JvStrHlder //JCL
22299: 899 unit uPSI_JclNTFS2; //JCL
22300: 900 uPSI_Jcl8087 //math coprocessor //JCL
22301: 901 uPSI_JvAddPrinter //JCL
22302: 902 uPSI_JvCabFile //JCL
22303: 903 uPSI_JvDataEmbedded; //JCL
22304: 904 unit uPSI_U_HexView; //mX4
22305: 905 uPSI_UWavein4; //mX4
22306: 906 uPSI_AMixer; //mX4
22307: 907 uPSI_JvaScrollText; //mX4
22308: 908 uPSI_JvArrow; //mX4
22309: 909 unit uPSI_UrlMon; //mX4
22310: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
22311: 911 unit uPSI_U_Oscilloscope4; //ToscfirmMain; //DFF
22312: 912 unit uPSI_DFFUtils; //DFF
22313: 913 unit uPSI_MathsLib; //DFF
22314: 914 uPSI_UIntList; //DFF
22315: 915 uPSI_UGetParens; //DFF
22316: 916 unit uPSI_UGeometry; //DFF
22317: 917 unit uPSI_UAstronomy; //DFF
22318: 918 unit uPSI_UCardComponentV2; //DFF
22319: 919 unit uPSI_UTGraphSearch; //DFF
22320: 920 unit uPSI_UParser10; //DFF
22321: 921 unit uPSI_cyIEUtils; //cY
22322: 922 unit uPSI_UcomboV2; //DFF
22323: 923 uPSI_cyBaseComm; //cY
22324: 924 uPSI_cyAppInstances; //cY
22325: 925 uPSI_cyAttract; //cY
22326: 926 uPSI_cyDERUtils; //cY
22327: 927 unit uPSI_cyDocER; //cY
22328: 928 unit uPSI_ODBC; //mX
22329: 929 unit uPSI_AssocExec; //mX
22330: 930 uPSI_cyBaseCommRoomConnector; //cY
22331: 931 uPSI_cyCommRoomConnector; //cY
22332: 932 uPSI_cyCommunicate; //cY
22333: 933 uPSI_cyImage; //cY
22334: 934 uPSI_cyBaseContainer; //cY
22335: 935 uPSI_cyModalContainer; //cY
22336: 936 uPSI_cyFlyingContainer; //cY
22337: 937 uPSI_RegStr; //VCL
22338: 938 uPSI_HtmlHelpViewer; //VCL
22339: 939 unit uPSI_cyIniform; //cY
22340: 940 unit uPSI_cyVirtualGrid; //cY
22341: 941 uPSI_Profiler; //DA
22342: 942 uPSI_BackgroundWorker; //DA
22343: 943 uPSI_WavePlay; //DA
22344: 944 uPSI_WaveTimer; //DA
22345: 945 uPSI_WaveUtils; //DA
22346: 946 uPSI_NamedPipes; //TB
22347: 947 uPSI_NamedPipeServer; //TB
22348: 948 unit uPSI_process; //TB
22349: 949 unit uPSI_DPUtils; //TB
22350: 950 unit uPSI_CommonTools; //TB
22351: 951 uPSI_DataSendToWeb; //TB
22352: 952 uPSI_StarCalc; //TB
22353: 953 uPSI_D2_XPVistaHelperU //TB
22354: 954 unit uPSI_NetTools; //TB
22355: 955 unit uPSI_Pipes; //TB
22356: 956 uPSI_ProcessUnit; //mX
22357: 957 uPSI_adGSM; //mX
22358: 958 unit uPSI_BetterADODataSet; //mX
22359: 959 unit uPSI_AdSelCom; //FTT //mX
22360: 960 unit unit uPSI_dwsXPlatform; //DWS
22361: 961 uPSI_AdSocket; //mX Turbo Power
22362: 962 uPSI_AdPacket; //mX
22363: 963 uPSI_AdPort; //mX
22364: 964 uPSI_PathFunc; //Inno
22365: 965 uPSI_CmnFunc; //Inno
22366: 966 uPSI_CmnFunc2; //Inno Setup
22367: 967 unit uPSI_BitmapImage; //mX4
22368: 968 unit uPSI_ImageGrabber; //mX4
22369: 969 uPSI_SecurityFunc; //Inno
22370: 970 uPSI_RedirFunc; //Inno
22371: 971 uPSI_FIFO, (MemoryStream) //mX4
22372: 972 uPSI_Int64Em; //Inno
22373: 973 unit uPSI_InstFunc; //Inno
22374: 974 unit uPSI_LibFusion; //Inno
22375: 975 uPSI_SimpleExpression; //Inno
22376: 976 uPSI_unitResourceDetails; //XN
22377: 977 uPSI_unitResFile; //XN
22378: 978 unit uPSI_simpleComport; //mX4
22379: 979 unit uPSI_AfViewershelfers; //Async
22380: 980 unit uPSI_Console; //mX4
22381: 981 unit uPSI_AnalogMeter; //TB
22382: 982 unit uPSI_XPrinter; //TB
22383: 983 unit uPSI_IniFiles; //VCL
22384: 984 unit uPSI_lazIniFiles; //FP

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22385: 985 uPSI_testutils; //FP
22386: 986 uPSI_ToolsUnit; (DBTests) //FP
22387: 987 uPSI_fpcunit //FP
22388: 988 uPSI_testdecorator; //FP
22389: 989 unit uPSI_fpcunittests; //FP
22390: 990 unit uPSI_cTCPBuffer; //Fundamentals 4
22391: 991 unit uPSI_Glut, //Open GL
22392: 992 uPSI_LEDBitmaps, //mX4
22393: 993 uPSI_FileClass, //Inno
22394: 994 uPSI_UtilsClass, //mX4
22395: 995 uPSI_ComPortInterface; //Kit //mX4
22396: 996 unit uPSI_SwitchLed; //mX4
22397: 997 unit uPSI_cyDmmCanvas; //cY
22398: 998 uPSI_uColorFunctions; //DFF
22399: 999 uPSI_uSettings; //DFF
22400: 1000 uPSI_cyDebug.pas //cY
22401: 1001 uPSI_cyColorMatrix; //cY
22402: 1002 unit uPSI_cyCopyFiles; //cY
22403: 1003 unit uPSI_cySearchFiles; //cY
22404: 1004 unit uPSI_cyBaseMeasure; //cY
22405: 1005 unit uPSI_PJStreams; //DD
22406: 1006 unit uPSI_cyRunTimeResize; //cY
22407: 1007 unit uPSI_jcontrolutils; //cY
22408: 1008 unit uPSI_kcMapViewer; (+GEONames) //kc
22409: 1009 unit uPSI_kcMapViewerDESynapse; //kc
22410: 1010 unit uPSI_cparserutils; (+GIS_SysUtils) //kc
22411: 1011 unit uPSI_LedNumber; //TurboPower
22412: 1012 unit uPSI_StStrL; //SysTools
22413: 1013 unit uPSI_IndGnouMeter; //LAZ
22414: 1014 unit uPSI_Sensors; //LAZ
22415: 1015 unit uPSI_pwmain; //cgi of powtils //Pow
22416: 1016 unit uPSI_HTMLUtil; //Pow
22417: 1017 unit uPSI_synthrap1; //httpsend //Pow
22418: 1018 unit StreamWrap1 //Pow
22419: 1019 unit uPSI_pwmain; //Pow
22420: 1020 unit pwtypes //Pow
22421:
22422:
22423:
22424: /////////////////////////////////
22425: //Form Template Library FTL
22426: /////////////////////////////////
22427:
22428: 32 FTL For Form Building out of the Script, eg. 399_form_templates.txt
22429:
22430: 045 unit uPSI_VListView TFormListView;
22431: 263 unit uPSI_JvProfiler32; TProfReport
22432: 270 unit uPSI_ImgList; TCustomImageList
22433: 278 unit uPSI_JvImageWindow; TJvImageWindow
22434: 317 unit uPSI_JvParserForm; TJvHTMLParserForm
22435: 497 unit uPSI_DebugBox; TDebugBox
22436: 513 unit uPSI_ImageWin; TImageForm, TImageForm2
22437: 514 unit uPSI_CustomDrawTreeView; TCustomDrawForm
22438: 515 unit uPSI_GraphWin; TGraphWinForm
22439: 516 unit uPSI_actionMain; TActionForm
22440: 518 unit uPSI_CtlPanel; TAppletApplication
22441: 529 unit uPSI_MDIEdit; TEditForm
22442: 535 unit uPSI_CoolMain; {browser} TWebMainForm
22443: 538 unit uPSI_frmExportMain; TSynexportForm
22444: 585 unit uPSI_usniffer; //PortScanForm TSniffForm
22445: 600 unit uPSI_ThreadForm; TThreadSortForm
22446: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm
22447: 620 unit uPSI_fpplotMain; TfplotForm1
22448: 660 unit uPSI_JvDBQueryParamsForm; TJvQueryParamsDialog
22449: 677 unit uPSI_OptionsFrm; TfrmOptions;
22450: 718 unit uPSI_MonForm; TMonitorForm
22451: 742 unit uPSI_SimplePortMain; TPortForm1
22452: 770 unit uPSI_ovccalc; TOvcCalculator //widget
22453: 810 unit uPSI_DbExcept; TDbEngineErrorDlg
22454: 812 unit uPSI_GL_actorUnit1; TglActorForm1 //OpenGL Robot
22455: 846 unit uPSI_synhttp_daemon; TTCPHttpDaemon, TTCPHttpThrd, TPingThread
22456: 867 unit uPSI_Debug; TfrmDebug
22457: 904 unit uPSI_U_HexView; THexForm2
22458: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain) TOscfrmMain
22459: 959 unit uPSI_AdSelCom; TComSelectForm
22460:
22461:
22462: ex.:with TEditForm.create(self) do begin
22463:   caption:= 'Template Form Tester';
22464:   FormStyle:= fsStayOnTop;
22465:   with editor do begin
22466:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf
22467:     SelStart:= 0;
22468:     Modified:= False;
22469:   end;
22470: end;
22471: with TWebMainForm.create(self) do begin
22472:   URLs.Text:= 'http://www.kleiner.ch';
22473:   URLsClick(self); Show;

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22474: end;
22475: with TSynexportForm.create(self) do begin
22476:   Caption:= 'Synexport HTML RTF tester';
22477:   Show;
22478: end;
22479: with TThreadSortForm.create(self) do begin
22480:   showmodal; free;
22481: end;
22482: with TCustomDrawForm.create(self) do begin
22483:   width:=820; height:=820;
22484:   image1.height:= 600; //add properties
22485:   image1.picture.bitmap:= image2.picture.bitmap;
22486:   //SelectionBackground1Click(self) CustomDraw1Click(self);
22487:   Background1.click;
22488:   bitmap1.click;
22489:   Tile1.click;
22490:   Showmodal;
22491:   Free;
22492: end;
22493: with TfplotForm1.Create(self) do begin
22494:   BtnPlotClick(self);
22495:   Showmodal; Free;
22496: end;
22497: with TOvcCalculator.create(self) do begin
22498:   parent:= aForm;
22499:   //free;
22500:   setbounds(550,510,200,150);
22501:   displaystr:= 'maXcalc';
22502: end;
22503: with THexForm2.Create(self) do begin
22504:   ShowModal;
22505:   Free;
22506: end;
22507:
22508: function CheckBox: string;
22509: var idHTTP: TIdHTTP;
22510: begin
22511:   result:= 'version not found';
22512:   if IsInternet then begin
22513:     idHTTP:= TIdHTTP.Create(NIL);
22514:     try
22515:       result:= idHTTP.Get(MXVERSIONFILE2);
22516:       result:= result[1]+result[2]+result[3]+result[4]+result[5];
22517:       if result = MBVER2 then begin
22518:         //output.Font.Style:= [fsbold];
22519:         //Speak(' A new Version '+vstr+' of max box is available! ');
22520:         result:= ('!!!! OK. You have latest Version: '+result+ ' available at '+MXSITE);
22521:       end;
22522:       //idhttp.get2('http://www.softwareschule.ch/maxbox.htm')
22523:     finally
22524:       idHTTP.Free
22525:     end;
22526:   end;
22527: end;
22528:
22529:
22530: /////////////////////////////////
22531: All maXbox Tutorials Table of Content 2014
22532: ///////////////////////////////
22533: Tutorial 00 Function-Coding (Blix the Programmer)
22534: Tutorial 01 Procedural-Coding
22535: Tutorial 02 OO-Programming
22536: Tutorial 03 Modular Coding
22537: Tutorial 04 UML Use Case Coding
22538: Tutorial 05 Internet Coding
22539: Tutorial 06 Network Coding
22540: Tutorial 07 Game Graphics Coding
22541: Tutorial 08 Operating System Coding
22542: Tutorial 09 Database Coding
22543: Tutorial 10 Statistic Coding
22544: Tutorial 11 Forms Coding
22545: Tutorial 12 SQL DB Coding
22546: Tutorial 13 Crypto Coding
22547: Tutorial 14 Parallel Coding
22548: Tutorial 15 Serial RS232 Coding
22549: Tutorial 16 Event Driven Coding
22550: Tutorial 17 Web Server Coding
22551: Tutorial 18 Arduino System Coding
22552: Tutorial 18_3 RGB LED System Coding
22553: Tutorial 19 WinCOM /Arduino Coding
22554: Tutorial 20 Regular Expressions RegEx
22555: Tutorial 21 Android Coding (coming 2013)
22556: Tutorial 22 Services Programming
22557: Tutorial 23 Real Time Systems
22558: Tutorial 24 Clean Code
22559: Tutorial 25 maXbox Configuration I+II
22560: Tutorial 26 Socket Programming with TCP
22561: Tutorial 27 XML & TreeView
22562: Tutorial 28 DLL Coding (available)
```

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22563: Tutorial 29 UML Scripting (2014)
22564: Tutorial 30 Web of Things (2014)
22565: Tutorial 31 Closures (2014)
22566: Tutorial 32 SQL Firebird (coming 2014)
22567: Tutorial 33 Oscilloscope (coming 2015)
22568: Tutorial 34 GPS Navigation (2014)
22569: Tutorial 35 Web Box (available)
22570: Tutorial 36 Unit Testing (coming 2015)
22571: Tutorial 37 API Coding (coming 2015)
22572: Tutorial 38 3D Coding (coming 2015)
22573: Tutorial 39 GEO Map Coding (available)
22574: Tutorial 39_1 GEO Map Layers Coding (available)
22575: Tutorial 40 REST Coding (coming 2015)
22576:
22577:
22578: Doc ref Docu for all Type Class and Const in maxbox_types.pdf
22579: using Docu for this file is maxbox_functions_all.pdf
22580: PEP - Pascal Education Program Low Lib Lab ShellHell
22581:
22582:
22583: http://stackoverflow.com/tags/pascalscript/hot
22584: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
22585: http://sourceforge.net/projects/maxbox #locs:51620
22586: http://sourceforge.net/apps/mediawiki/maxbox
22587: http://www.blaisepascal.eu/
22588: https://github.com/maxkleiner/maxbox3.git
22589: http://www.heise.de/download/maxbox-1176464.html
22590: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml
22591: https://www.facebook.com/pages/Programming-maxbox/166844836691703
22592: http://www.softwareschule.ch/arduino_training.pdf
22593: http://www.delphiarea.com
22594: http://www.freepascal.org/docs-html/rtl/strutils/index-5.html
22595:
22596:
22597: All maxbox Examples List
22598: https://github.com/maxkleiner/maxbox3/releases
22599: ****
22600: 000_pas_baseconvert.txt 282_fadengraphik.txt
22601: 000_pas_baseconvert.txt_encrypt 283_SQL_API_messagetimeout.txt
22602: 000_pas_baseconvert.txt_decrypt 284_SysTools4.txt
22603: 001_1_pas_functest - Kopie.txt 285_MineForm_GR32.TXT
22604: 001_1_pas_functest.txt 285_MineForm_GR32main.TXT
22605: 001_1_pas_functest2.txt 285_MineForm_GR32 mainsolution.TXT
22606: 001_1_pas_functest_clx2.txt 285_MineForm_propas.TXT
22607: 001_1_pas_functest_clx2_2.txt 285_MineForm_propas2.TXT
22608: 001_1_pas_functest_openarray.txt 285_minesweeper2.TXT
22609: 001_pas_lottogen.txt 285_Patterns_process.txt
22610: 001_pas_lottogen_template.txt 286_colormixer_jpeg_charcounter.txt
22611: 001_pas_lottogen.txtcopy 286_colormixer_jpeg_charcounter2.txt
22612: 002_pas_russianroulette.txt 287_eventhandling.txt
22613: 002_pas_russianroulette.txtcopy 287_eventhandling2.txt
22614: 002_pas_russianroulette.txtcopy_decrypt 287_eventhandling2_negrpower.txt
22615: 002_pas_russianroulette.txtcopy_encrypt 288_bitblt.txt
22616: 003_pas_motion.txt 288_bitblt_resize.txt
22617: 003_pas_motion.txtcopy 289_regression.txt
22618: 004_pas_search.txt 289_regression2.txt
22619: 004_pas_search_replace.txt 290_bestofbox.txt
22620: 004_search_replace_allfunctionlist.txt 290_bestofbox2.txt
22621: 005_pas_oodesign.txt 290_bestofbox3.txt
22622: 005_pas_shelllink.txt 291_3sort_visual_thread.txt
22623: 006_pas_oobatch.txt 292_refactoring2.txt
22624: 007_pas_streamcopy.txt 293_bold_utils.txt
22625: 008_EINMALEINS_FUNC.TXT 293_ib_utils.txt
22626: 008_explanation.txt 293_ib_utils_timetest.txt
22627: 008_pas_verwechselt.txt 294_maxcalc_demo.txt
22628: 008_pas_verwechselt_ibz_bern_func.txt 294_maxcalc_demo2.txt
22629: 008_stack_ibz.TXT 295_easter_calendar.txt
22630: 009_pas_umrunner.txt 295_easter_calendar2.txt
22631: 009_pas_umrunner_all.txt 295_easter_combobox.txt
22632: 009_pas_umrunner_componenttest.txt 297_atomimage.txt
22633: 009_pas_umrunner_solution.txt 297_atomimage2.txt
22634: 009_pas_umrunner_solution_2step.txt 297_atomimage3.txt
22635: 010_pas_oodesign_solution.txt 297_atomimage4.txt
22636: 011_pas_puzzlepas_defect.txt 297_maxonmotor.TXT
22637: 012_pas_umrunner_solution.txt 297_maxon_atomimage9.txt
22638: 012_pas_umrunner_solution2.txt 298_bitblt_animation.txt
22639: 013_pas_linenumber.txt 298_bitblt_animation2.txt
22640: 014_pas_primetest.txt 298_bitblt_animation3.txt
22641: 014_pas_primetest_first.txt 298_bitblt_animation4.txt
22642: 014_pas_primetest_sync.txt 298_bitblt_animation4_screensaver.txt
22643: 015_pas_designbycontract.txt 298_bitblt_animation5_screensaver.txt
22644: 015_pas_designbycontract_solution.txt 299_animation.txt
22645: 016_pas_searchrec.txt 299_animationmotor_arduino.txt
22646: 017_chartgen.txt 299_animation_formprototype.txt
22647: 018_data_simulator.txt 299_realtimeclock_arduino.txt
22648: 019_dez_to_bin.txt 299_realtimeclock_arduino2.txt
22649: 019_dez_to_bin_grenzwert_ibz.txt 300_treeview.txt
22650: 020_proc_feedback.txt 300_treeview_test.txt
22651: 021_pas_symkey.txt 300_treeview_test2.txt

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22652: 021_pas_symkey_solution.txt
22653: 022_pas_filestreams.txt
22654: 023_pas_find_searchrec.txt
22655: 023_pas_pathfind.txt
22656: 024_pas_TFileStream_records.txt
22657: 025_prime_direct.txt
22658: 026_pas_memorystream.txt
22659: 027_pas_shellexecute_beta.txt
22660: 027_pas_shellexecute_solution.txt
22661: 028_pas_dataset.txt
22662: 029_pas_assignfile.txt
22663: 029_pas_assignfile_dragndropexe.txt
22664: 030_palindrome_2.txt
22665: 030_palindrome_tester.txt
22666: 030_pas_recursion.txt
22667: 030_pas_recursion2.txt
22668: 031_pas_hashcode.txt
22669: 032_pas_crc_const.txt
22670: 033_pas_cipher.txt
22671: 033_pas_cipher_def.txt
22672: 033_pas_cipher_file_2_solution.txt
22673: 034_pas_soundbox.txt
22674: 035_pas_crcscript.txt
22675: 035_pas_CRCscript_modbus.txt
22676: 036_pas_includetest.txt
22677: 036_pas_includetest_basta.txt
22678: 037_pas_define_demo32.txt
22679: 038_pas_box_demonstrator.txt
22680: 039_pas_dllcall.txt
22681: 040_paspointer.txt
22682: 040_paspointer_old.txt
22683: 041_pasplotter.txt
22684: 041_pasplotter_plus.txt
22685: 042_pas_kgv_ggt.txt
22686: 043_pas_proceduretype.txt
22687: 044_pas_14queens_solwith14.txt
22688: 044_pas_8queens.txt
22689: 044_pas_8queens_sol2.txt
22690: 044_pas_8queens_solutions.txt
22691: 044_queens_performer.txt
22692: 044_queens_performer2.txt
22693: 044_queens_performer2tester.txt
22694: 045_pas_listhandling.txt
22695: 046_pas_records.txt
22696: 047_pas_modula10.txt
22697: 048_pas_romans.txt
22698: 049_pas_ifdemo.txt
22699: 049_pas_ifdemo_BROKER.txt
22700: 050_pas_primetest2.txt
22701: 050_pas_primetester_thieves.txt
22702: 050_program_starter.txt
22703: 050_program_starter_performance.txt
22704: 051_pas_findtext_solution.txt
22705: 052_pas_text_as_stream.txt
22706: 052_pas_text_as_stream_include.txt
22707: 053_pas_singleton.txt
22708: 054_pas_speakpassword.txt
22709: 054_pas_speakpassword2.txt
22710: 054_pas_speakpassword_searchtest.txt
22711: 055_pas_factorylist.txt
22712: 056_pas_demeter.txt
22713: 057_pas_dirfinder.txt
22714: 058_pas_filefinder.txt
22715: 058_pas_filefinder_pdf.txt
22716: 058_pas_filefinder_screview.txt
22717: 058_pas_filefinder_screview2.txt
22718: 058_pas_filefinder_screview3.txt
22719: 059_pas_timertest.txt
22720: 059_pas_timertest_2.txt
22721: 059_pas_timertest_time_solution.txt
22722: 059_timerobject_starter2.txt
22723: 059_timerobject_starter2_ibz2_async.txt
22724: 059_timerobject_starter2_uml.txt
22725: 059_timerobject_starter2_uml_main.txt
22726: 059_timerobject_starter4_ibz.txt
22727: 060_pas_datefind.txt
22728: 060_pas_datefind_exceptions2.txt
22729: 060_pas_datefind_exceptions_CHECKTEST.txt
22730: 060_pas_datefind_fulltext.txt
22731: 060_pas_datefind_plus.txt
22732: 060_pas_datefind_plus_mydate.txt
22733: 061_pas_randomwalk.txt
22734: 061_pas_randomwalk_plus.txt
22735: 062_paskorrelation.txt
22736: 063_pas_calculateform.txt
22737: 063_pas_calculateform_2list.txt
22738: 064_pas_timetest.txt
22739: 065_pas_bitcounter.txt
22740: 066_pas_eliza.txt

300_treeview_test3.txt
301_LED_Arduino3.txt
301_led_arduino3_simple.txt
301_led_arduino3_simplecode.txt
301_log_arduino.txt
301_log_arduino2.txt
301_SQL_DBfirebird3.txt
301_SQL_DBfirebird4.txt
302_LCLActivity_java.txt
302_LED_DataLogger.txt
303_Android_LCLActivity_java.txt
303_webserver.txt
303_webserver2.txt
303_webserver_alldocs2.txt
303_webserver_alldocs2_tester.txt
303_webserver_minimal.txt
303_webserver_simple.txt
304_st_system.txt
305_indy_elizahttpserver.TXT
305_indy_elizahttpserver2.TXT
305_indy_elizahttpserver3.TXT
305_indy_elizahttpserver4file.TXT
305_webserver_arduino.txt
305_webserver_arduino2.txt
305_webserver_arduino3.txt
305_webserver_arduino3ibz.txt
305_webserver_arduino3ibz_rgb_led.txt
305_webserver_arduino3test.txt
306_SPS_http_command.txt
307_all_booleanlogic.txt
308_bitbox3.txt
308_bitbox3_exec.txt
308_boolean_animation.txt
308_boolean_animation2.txt
309_regex_power.txt
309_regex_powertester2.txt
309_regex_powertester3.txt
310_regex_decorator.TXT
312_ListView.txt
313_dmath_dll.txt
314_fundamentals4_tester.TXT
315_funcplot_dmath.TXT
316_cfileutils_cdatetime_tester.TXT
317_excel_export_tester.TXT
318_excel_export.TXT
318_excel_export2.TXT
318_excel_export3.TXT
318_excel_export4Tester.TXT
318_excel_export5Tester.TXT
319_superfunctions_math.TXT
319_superfunctions_mathdefect.TXT
320_superfunctions.TXT
320_superfunctions2.TXT
321_SQL_Excel.txt
321_SQL_Excel2.txt
321_SQL_Excel_Export.txt
321_SQL_ExportExec.txt
321_SQL_ExportTest.txt
321_SQL_SAS_tester3.txt
321_SQL_SAS_tester3_selfcompile.txt
321_SQL_SAS_tester3_selfcompile2.txt
321_SQL_SAS_tester4.txt
321_SQL_SAS_updater.txt
322_timezones.TXT
323_datefind_fulltext_search.txt
323_datefind_fulltext_searchtester.txt
324_interfacenavi.TXT
325_ampelsteuerung.txt
325_analogclock.txt
326_world_analogclock.txt
326_world_analogclock2.txt
327_atomimage_clock.txt
328_starfield.txt
329_starfield2.txt
330_myclock.txt
330_myclock2.txt
331_SQL_DBfirebird4.txt
332_jprofiler.txt
332_jprofiler_form.txt
332_jprofiler_form2.txt
333_querybyexample.txt
333_querybyexample2.txt
334_jvutils_u.txt
335_atomimage5.txt
335_atomimage6.txt
335_atomimage7.txt
336_digiclock.txt
336_digiclock2.txt
336_digiclock2test.txt
336_digiclock3.txt

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22741: 066_pas_eliza_include_sol.txt          337_4games.txt
22742: 067_pas_morse.txt                     337_4games_inone.txt
22743: 068_pas_piezo_sound.txt               338_compress.txt
22744: 069_LED_Matrix_R1_3_6_NV_PSchaer.TXT 338_compress2.txt
22745: 069_my_LEDTEXT.TXT                   339_ntfs.txt
22746: 069_pas_ledmatrix.txt                340_docudtype.txt
22747: 069_pas_LEDMATRIX_Alphabet.txt       340_logsimulation.txt
22748: 069_pas_LEDMATRIX_Alphabet_run.txt   340_logsimulation2.txt
22749: 069_pas_LEDMATRIX_Alphabet_tester.txt 340_soundControltype.txt
22750: 069_PAS_LEDMATRIX_COLOR.TXT          341_blix_clock.txt
22751: 069_pas_ledmatrix_fixededit.txt      341_blix_clock2.txt
22752: 069_pas_LEDMATRIX_soundbox.txt       341_blix_clock_tester.txt
22753: 069_PAS_LEDMATRIX_soundbox2.TXT      342_set_enumerator.txt
22754: 069_Richter_MATRIX.TXT              343_dice2.txt
22755: 070_pas_functionplot.txt             344_pe_header.txt
22756: 070_pas_functionplotter2.txt         344_pe_header2.txt
22757: 070_pas_functionplotter2_mx4.txt     345_velocity.txt
22758: 070_pas_functionplotter2_tester.txt   346_conversions.txt
22759: 070_pas_functionplotter3.txt         347_pictureview.txt
22760: 070_pas_functionplotter4.txt         348_duallistview.txt
22761: 070_pas_functionplotter_digital.txt 349_biginteger.txt
22762: 070_pas_functionplotter_elliptic.txt 350_parserform.txt
22763: 070_pas_function_helmholtz.txt      351_chartform.txt
22764: 070_pas_textcheck_experimental.txt   351_chartform2.txt
22765: 071_pas_graphics.txt                 351_chartform3.txt
22766: 071_pas_graphics_drawsym.txt        352_array_unittest.txt
22767: 071_pas_graphics_drawsym_save.txt    353_smtp_email.txt
22768: 071_pas_graphics_random.txt         353_smtp_email12.txt
22769: 072_pas_fractals.txt                354_josephus.txt
22770: 072_pas_fractals_2.txt              355_life_of_PI.txt
22771: 072_pas_fractals_blackhole.txt       356_3D_printer.txt
22772: 072_pas_fractals_perfomance.txt     357_fplot.TXT
22773: 072_pas_fractals_perfomance_new.txt 358_makesound.txt
22774: 072_pas_fractals_perfomance_sharp.txt 359_charsetrules.TXT
22775: 072_pas_fractals_performance.txt     360_allobjects.TXT
22776: 072_pas_fractals_performance_mx4.txt 360_JvPaintFX.TXT
22777: 073_pas_forms.txt                  361_heartbeat_wave.TXT
22778: 074_pas_chartgenerator.txt           362_maxonmotor2.TXT
22779: 074_pas_chartgenerator_solution.txt 363_compress_services.txt
22780: 074_pas_chartgenerator_solution_back.txt 363_compress_services2.txt
22781: 074_pas_charts.txt                 364_pdf_services.txt
22782: 075_bitmap_Artwork2.txt            365_memorystream.txt
22783: 075_pas_bitmappuzzle.txt           365_memorystream2.txt
22784: 075_pas_bitmappuzzle24_prod.txt    365_memorystream_test.txt
22785: 075_pas_bitmappuzzle2_prod.txt     365_U_HexView.txt
22786: 075_pas_bitmappuzzle3.txt          366_mp3player.txt
22787: 075_pas_bitmapsolve.txt            366_mp3player2.txt
22788: 075_pas_bitmap_Artwork.txt         366_mp3player2_themestest.txt
22789: 075_pas_puzzlespas_solution.txt   367_silvi_player_widgets.txt
22790: 076_pas_3dcube.txt                 367_silvi_player_widgets2.txt
22791: 076_pas_circle.txt                367_widgets.txt
22792: 077_pas_mmshow.txt                368_configuration_demo.txt
22793: 078_pas_pi.txt                   369_macro_demo.txt
22794: 079_pas_3dcube_animation.txt      370_callback2grid.TXT
22795: 079_pas_3dcube_animation4.txt     370_richedit.txt
22796: 079_pas_3dcube_plus.txt          370_richedit_highlight.txt
22797: 080_pas_hanoi.txt                370_synedit.txt
22798: 080_pas_hanoi2.txt              370_synedit2.txt
22799: 080_pas_hanoi2_file.txt          370_synedit2_mxtester.txt
22800: 080_pas_hanoi2_sol.txt          370_synedit2_mxtester2.txt
22801: 080_pas_hanoi2_tester.txt        371_maxbook_v4tester.txt
22802: 080_pas_hanoi2_tester_fast.txt   372_stackibz2_memoryalloc.TXT
22803: 080_pas_hanoi3.txt              372_synedit_export.txt
22804: 081_pas_chartist2.txt           373_batman.txt
22805: 082_pas_biorhythmus.txt          373_fractals_tvout.txt
22806: 082_pas_biorhythmus_solution.txt 374_realtime_random.txt
22807: 082_pas_biorhythmus_solution3.txt 374_realtime_random2.txt
22808: 082_pas_biorhythmus_test.txt     374_realtime_randomtest.txt
22809: 083_pas_GITARRE.txt            374_realtime_randomtest2.txt
22810: 083_pas_soundbox_tones.txt      375_G9_musicbox.txt
22811: 084_pas_waves.txt              376_collections_list.txt
22812: 085_mxsinus_logo.txt           377_simpleXML.txt
22813: 085_sinus_plot_waves.txt        377_smartXML.txt
22814: 086_pas_graph_arrow_heart.txt   377_smartXMLWorkshop.txt
22815: 087_bitmap_loader.txt          377_smartXMLWorkshop2.txt
22816: 087_pas_bitmap_solution.txt     378_queryperformance3.txt
22817: 087_pas_bitmap_solution2.txt    378_REST1.txt
22818: 087_pas_bitmap_subimage.txt     378_REST2.txt
22819: 087_pas_bitmap_test.txt         379_timefunc.txt
22820: 088_pas_soundbox2_mp3.txt       379_timefuncTesterfilemon.txt
22821: 088_pas_soundbox_mp3.txt        380_coolfunc.txt
22822: 088_pas_sphere_2.txt           380_coolfunc2.txt
22823: 089_pas_gradient.txt          380_coolfunc_tester.txt
22824: 089_pas_maxland2.txt          381_bitcoin_simulation.txt
22825: 090_pas_sudoku4.txt            382_GRMath.TXT
22826: 090_pas_sudoku4_2.txt          382_GRMath_PI_Proof.TXT
22827: 091_pas_cube4.txt              382_GRMath_Riemann.TXT
22828: 092_pas_statistics4.txt        383_MDAC_DCOM.txt
22829: 093_variance.txt              384_TeamViewerID.TXT

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22830: 093_variance_debug.txt          386_InternetRadio.TXT
22831: 094_pas_daysold.txt          387_fulltextfinder.txt
22832: 094_pas_stat_date.txt        387_fulltextfinder_cleancode.TXT
22833: 095_pas_ki_simulation.txt    387_fulltextfinder_fast.TXT
22834: 096_pas_geisen_problem.txt   387_fulltext_getscripttest.txt
22835: 096_pas_montyhall_problem.txt 388_TCPServerSock.TXT
22836: 097_lotto_proofofconcept.txt 388_TCPServerSock2.TXT
22837: 097_pas_lottocombinations_beat_plus.txt 388_TCPServerSockClient.TXT
22838: 097_pas_lottocombinations_beat_plus2.txt 389_TAR_Archive.TXT
22839: 097_pas_lottocombinations_universal.txt 389_TAR_Archive_test.TXT
22840: 097_pas_lottosimulation.txt    389_TAR_Archive_test2.TXT
22841: 098_pas_chartgenerator_plus.txt 390_Callback3.TXT
22842: 099_pas_3D_show.txt         390_Callback3Rec.TXT
22843: 200_big_numbers.txt         390_CallbackClean.TXT
22844: 200_big_numbers2.txt        390_StringlistHTML.TXT
22845: 201_streamload_xml.txt     391_ToDo_List.TXT
22846: 202_systemcheck.txt       392_Barcode.TXT
22847: 203_webservice_simple_intftester.txt 392_Barcode2.TXT
22848: 204_webservice_simple.txt   392_Barcode23.TXT
22849: 205_future_value_service.txt 392_Barcode2scholz.TXT
22850: 206_DTD_string_functions.txt 392_Barcode3scholz.TXT
22851: 207_ibz2_async_process.txt  393_QRCode.TXT
22852: 208_crc32_hash.txt        393_QRCode2.TXT
22853: 209_cryptohash.txt        393_QRCode2Direct.TXT
22854: 210_public_private.txt    393_QRCode2DirectIndy.TXT
22855: 210_public_private_cryptosystem.txt 393_QRCode2Direct_detlef.TXT
22856: 211_wipe_pattern.txt      393_QRCode3.TXT
22857: 211_wipe_pattern2.txt    394_networkgraph.TXT
22858: 211_wipe_pattern_solution.txt 394_networkgraph_depwalkutilstest.TXT
22859: 212_pas_statisticmodule4.TXT 394_networkgraph_depwalkutilstest2.TXT
22860: 212_pas_statisticmoduletxt.TXT 395_USBController.TXT
22861: 212_statisticmodule4.txt   396_Sort.TXT
22862: 213_pas_BBP_Algo.txt     397_Hotlog.TXT
22863: 214_mxdocudemo.txt       397_Hotlog2.TXT
22864: 214_mxdocudemo2.txt     398_ustrings.txt
22865: 214_mxdocudemo3.txt     399_form_templates.txt
22866: 215_hints_test.TXT      400_fploottchart.TXT
22867: 216_warnings_test.TXT   400_fploottchart2.TXT
22868: 217_pas_heartbeat.txt   400_fploottchart2teetest.TXT
22869: 218_biorhythmus_studio.txt 400_QRCodeMarket.TXT
22870: 219_cipherbox.txt        401_tfilerun.txt
22871: 219_crypt_source_comtest_solution.TXT 402_richedit2.txt
22872: 220_cipherbox_form.txt   403_outlookspy.txt
22873: 220_cipherbox_form2.txt  404_simplebrowser.txt
22874: 221_bcd_explain.txt    405_datefinder_today.txt
22875: 222_memoform.txt        406_portscan.txt
22876: 223_directorybox.txt    407_indydemo.txt
22877: 224_dialogs.txt        408_testroboter.txt
22878: 225_sprite_animation.txt 409_excel_control.txt
22879: 226_ASCII_Grid2.TXT    410_keyboardevent.txt
22880: 227_animation.txt      411_json_test.txt
22881: 227_animation2.txt    412_Zeosutils.txt
22882: 228_android_calendar.txt 413_listview2.txt
22883: 229_android_game.txt   414_avrdude_flash.txt
22884: 229_android_game_tester.txt 415_avrdude_writehex.txt
22885: 230_DataProvider.txt    416_sonar_startscriptEKON.TXT
22886: 230_DataSetProvider.txt  416_sonar_startscriptEKON_reporting.TXT
22887: 230_DataSetXMLBackupScholz.txt 417_GRMATH_PI_Proof2.TXT
22888: 231_DBGrid_access.txt   418_functional_paradigm.txt
22889: 231_DBGrid_XMLaccess.txt 419_archimedes_spiral.txt
22890: 231_DBGrid_XMLaccess2.txt 419_archimedes_spiral2.txt
22891: 231_DBGrid_XMLaccess_locatetester.txt 420_archimedes_arduino.txt
22892: 231_DBGrid_XML_CDS_local.txt 420_Lissajous.txt
22893: 232_outline.txt         421_PI_Power.TXT
22894: 232_outline_2.txt       421_PI_Power2.TXT
22895: 233_modular_form.txt   422_world_bitboxx.txt
22896: 234_debugoutform.txt   423_game_of_life.txt
22897: 235_fastform.TXT      423_game_of_life2.TXT
22898: 236_componentpower.txt 423_game_of_life3.TXT
22899: 236_componentpower_back.txt 423_game_of_life3_test.TXT
22900: 237_pas_4forms.txt    423_game_of_life4.TXT
22901: 238_lottogen_form.txt  423_game_of_life4_kryptum.TXT
22902: 239_pas_sierpinski.txt 424_opengl_tester.txt
22903: 239_pas_sierpinski2.txt 425_reversi_game.txt
22904: 240_unitGlobal_tester.txt 426_IB_Utils.TXT
22905: 241_db3_sql_tutorial.txt 427_IBDatabase.TXT
22906: 241_db3_sql_tutorial2.txt 428_SortGrid.TXT
22907: 241_db3_sql_tutorial2fix.txt 429_fileclass.txt
22908: 241_db3_sql_tutorial3.txt 430_fileoperation.txt
22909: 241_db3_sql_tutorial3connect.txt 430_fileoperation_tester.txt
22910: 241_db3_sql_tutorial3_ftptest.txt 431_performance_index.txt
22911: 241_RTL_SET2.txt       432_shortstring_routines.txt
22912: 241_RTL_SET2_tester.txt 433_video_avicap.txt
22913: 242_Component_Control.txt 433_video_avicap2.txt
22914: 243_tutorial_loader.txt  434_GSM_module.TXT
22915: 244_script_loader_loop.txt 435_httpcommon.txt
22916: 245_formapp2.txt       436_GraphicsSplitter.txt
22917: 245_formapp2_tester.txt 436_GraphicSplitter_form.txt
22918: 245_formapp2_testerX.txt 436_GraphicSplitter_form2.txt

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22919: 246_httpapp.txt
22920: 247_datecalendar.txt
22921: 248_ASCII_Grid2_sorted.TXT
22922: 249_picture_grid.TXT
22923: 250_tipsandtricks2.txt
22924: 250_tipsandtricks3.txt
22925: 250_tipsandtricks3api.txt
22926: 250_tipsandtricks3_admin_elevation.txt
22927: 250_tipsandtricks3_tester.txt
22928: 250_tipsandtricks4_tester.txt
22929: 250_tipsandtricks4_tester2.txt
22930: 251_compare_noise_gauss.txt
22931: 251_whitenoise.txt
22932: 251_whitenoise2.txt
22933: 252_hilbert_turtle.txt
22934: 252_pas_hilbert.txt
22935: 253_opearatingsystem3.txt
22936: 254_dynarrays.txt
22937: 255_einstein.txt
22938: 256_findconsts_of_EXE.txt
22939: 256_findfunctions2_of_EXE.txt
22940: 256_findfunctions2_of_EXEaverp.txt
22941: 256_findfunctions2_of_EXEspec.txt
22942: 256_findfunctions3.txt
22943: 256_findfunctions_of_EXE.txt
22944: 257_AES_Cipher.txt
22945: 258_AES_cryptobox.txt
22946: 258_AES_cryptobox2.txt
22947: 258_AES_cryptobox2_passdlg.txt
22948: 259_AES_crypt_directory.txt
22949: 260_sendmessage_2.TXT
22950: 260_sendmessage_beta.TXT
22951: 261_probability.txt
22952: 262_mxoutputdemo4.txt
22953: 263_async_sound.txt
22954: 264_vclutils.txt
22955: 264_VCL_utils2.txt
22956: 265_timer_API.txt
22957: 266_serial_interface.txt
22958: 266_serial_interface2.txt
22959: 266_serial_interface3.txt
22960: 267_ackermann_rec.txt
22961: 267_ackermann_variants.txt
22962: 268_DBGrid_tree.txt
22963: 269_record_grid.TXT
22964: 270_Jedi_FunctionPower.txt
22965: 270_Jedi_FunctionPowertester.txt
22966: 271_closures_study.txt
22967: 271_closures_study_workingset2.txt
22968: 272_pas_function_show.txt
22969: 273_pas_function_show2.txt
22970: 274_library_functions.txt
22971: 275_turtle_language.txt
22972: 275_turtle_language_save.txt
22973: 276_save_algo.txt
22974: 276_save_algo2.txt
22975: 277_functionsfor39.txt
22976: 278_DB_Dialogs.TXT
22977: 279_hexer2.TXT
22978: 279_hexer2macro.TXT
22979: 279_hexer2macroback.TXT
22980: 280_UML_process.txt
22981: 280_UML_process_knabe2.txt
22982: 280_UML_process_knabe3.txt
22983: 280_UML_process_TIM_Botzenhardt.txt
22984: 280_UML_TIM_Seitz.txt
22985: 281_picturepuzzle.txt
22986: 281_picturepuzzle2.txt
22987: 281_picturepuzzle3.txt
22988: 281_picturepuzzle4.txt
22989: 479_inputquery.txt
22990: 480_regex_pathfinder2.txt
22991: 482_processPipe.txt
22992: 483_PathFuncTest_mx.txt
22993: 485_InnoFunc.txt
22994: 487_asyncKeyState.txt
22995: 489_simpleComport.txt
22996: 491_analogmeter.txt
22997: 493_gadgets.txt
22998: 496_InstallX.txt
22999: 498_UnitTesting.txt
23000: 500_diceoflifes.txt
23001: 502_findalldocs.txt
23002: 504_fileclass.txt
23003: 506_colormatrix.txt
23004: 508_simplecomportmorse.txt
23005: 509_509_GEOMap2_SReverse.TXT
23006: 511_LEDLabel.txt
23007: 513_StreamIntegration.txt

436_teetest_screen.TXT
436_teetest_screen2.TXT
437_WinAPItop.txt
437_WinAPItop_Firebirdtester.txt
438_OvcInternational.txt
439_AsyncFreeDemo.txt
439_AsyncFreeDemoForm.txt
440_DLL_Tutor.txt
440_DLL_Tutor2.txt
440_XML_Tutor.txt
440_XML_Tutor2.txt
441_make_app.txt
442_arduino_rgb_led.txt
443_webserver_arduino_rgb_light.txt
443_webserver_arduino_rgb_light4.txt
444_webserver_arduino3ibz_rgb_led_basta.txt
445_datagrid.txt
445_datagrid2.txt
445_datagrid_android_arduino.txt
446_arduino_timer.txt
447_patternFrm_mx3.txt
448_Synapse.txt
448_Synapse2.txt
449_dweb_start_tester.txt
450_Synapse_HTTPS.txt
450_Synapse_Mime.txt
450_Synapse_ScanPing.txt
451_ocx_player.txt
451_OCC_Winplayer2.txt
452_dbtreeview.txt
452_dbtreeview2.txt
453_stdfuncs.txt
454_fileStream.txt
455_functionfun.txt
455_functionfun2.txt
455_functionfun2_test.txt
457_ressource_grid.txt
458_atomimageX.txt
459_cindyfunc.txt
459_cindyfunc2.txt
460_TopTenFunctions.txt
461_sqlform_calwin.txt
462_caesarcipher.txt
463_global_exception.txt
464_function_procedure.txt
464_function_procedure2.txt
464_function_procedure3.txt
465_U_HexView.txt
466_moon.txt
466_moon_inputquery.txt
467_cardmagic.txt
467_helmholtz_graphic.txt
468_URLMon.txt
468_URLMon2.txt
469_formarrow.txt
469_formarrow_datepicker.txt
469_formarrow_datepicker_ibz_result.txt
469_ibzresult.txt
470_DFFUtils_compiled.txt
470_DFFUtils_ScrollingLED.txt
470_Oscilloscope.txt
470_Oscilloscope_code.txt
471_cardmagic.txt
471_cardmagic2.txt
472_allcards.TXT
473_comboiset.txt
474_wakeonlan.txt
474_wakeonlan2.txt
476_getscripttest.txt
477_filenameonly.txt
480_regex_pathfinder.txt
481_processList.txt
482_processPipeGCC.txt
484_filefinder3.txt
486_VideoGrabber.txt
488_asyncTerminal.txt
490_webCamproc.txt
492_snowflake2.txt
495_fourierfreq.txt
497_LED.txt
499_mulu42.txt
501_firebird_datasnap_tests.txt
503_led_switch.txt
505_debug.txt
507_derutils.txt
509_GEOMap2.txt
510_510_bonn_gpsdata_mx4.pas
512_LED_moon.txt
514_LED_moon2.txt

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23008: 515_ledclock3.txt           516_mapview.txt
23009: 517_animation7.txt        518_sensors_meter.txt
23010: 519_powtills.txt          520_run_bytecode.txt
23011:
23012:
23013: Web Script Examples:
23014:
23015: http://www.softwareschule.ch/examples/performer.txt';
23016: http://www.softwareschule.ch/examples/turtle.txt';
23017: http://www.softwareschule.ch/examples/SQLExport.txt';
23018: http://www.softwareschule.ch/examples/Richter.txt';
23019: http://www.softwareschule.ch/examples/checker.txt';
23020: http://www.softwareschule.ch/examples/demoscript.txt';
23021: http://www.softwareschule.ch/examples/ibzresult.txt';
23022: http://www.softwareschule.ch/examples/performindex.txt
23023: http://www.softwareschule.ch/examples/processlist.txt
23024: http://www.softwareschule.ch/examples/game.txt
23025:
23026:
23027:
23028: Delphi Basics Run Time Library listing
23029: ****
23030: A
23031: Compiler Directive $A Determines whether data is aligned or packed
23032: Compiler Directive $Align Determines whether data is aligned or packed
23033: Compiler Directive $AppType Determines the application type : GUI or Console
23034: Procedure SysUtils Abort Aborts the current processing with a silent exception
23035: Function System Abs Gives the absolute value of a number (-ve sign is removed)
23036: Directive Abstract Defines a class method only implemented in subclasses
23037: Variable System AbstractErrorProc Defines a proc called when an abstract method is called
23038: Function System Addr Gives the address of a variable, function or procedure
23039: Keyword And Boolean and or bitwise and of two arguments
23040: Type System AnsiChar A character type guaranteed to be 8 bits in size
23041: Function SysUtils AnsiCompareStr Compare two strings for equality
23042: Function SysUtils AnsiCompareText Compare two strings for equality, ignoring case
23043: Function StrUtils AnsiContainsStr Returns true if a string contains a substring
23044: Function StrUtils AnsiEndsStr Returns true if a string ends with a substring
23045: Function StrUtils AnsiIndexStr Compares a string with a list of strings - returns match index
23046: Function StrUtils AnsiLeftStr Extracts characters from the left of a string
23047: Function SysUtils AnsiLowerCase Change upper case characters in a string to lower case
23048: Function StrUtils AnsiMatchStr Returns true if a string exactly matches one of a list of strings
23049: Function StrUtils AnsiMidStr Returns a substring from the middle characters of a string
23050: Function StrUtils AnsiPos Find the position of one string in another
23051: Function StrUtils AnsiReplaceStr Replaces a part of one string with another
23052: Function StrUtils AnsiReverseString Reverses the sequence of letters in a string
23053: Function StrUtils AnsiRightStr Extracts characters from the right of a string
23054: Function StrUtils AnsiStartsStr Returns true if a string starts with a substring
23055: Type System AnsiString A data type that holds a string of AnsiChars
23056: Function SysUtils AnsiUpperCase Change lower case characters in a string to upper case
23057: Procedure System Append Open a text file to allow appending of text to the end
23058: Procedure SysUtils AppendStr Concatenate one string onto the end of another
23059: Function Math ArcCos The Arc Cosine of a number, returned in radians
23060: Function Math ArcSin The Arc Sine of a number, returned in radians
23061: Function System ArcTan The Arc Tangent of a number, returned in radians
23062: Keyword Array A data type holding indexable collections of data
23063: Keyword As Used for casting object references
23064: Procedure System Assign Assigns a file handle to a binary or text file
23065: Function System Assigned Returns true if a reference is not nil
23066: Procedure System AssignFile Assigns a file handle to a binary or text file
23067: Procedure Printers AssignPrn Treats the printer as a text file - an easy way of printing text
23068:
23069: B
23070: Compiler Directive $B Whether to short cut and and or operations
23071: Compiler Directive $BoolEval Whether to short cut and and or operations
23072: Procedure SysUtils Beep Make a beep sound
23073: Keyword Begin Keyword that starts a statement block
23074: Function System BeginThread Begins a separate thread of code execution
23075: Procedure System BlockRead Reads a block of data records from an untyped binary file
23076: Procedure System BlockWrite Writes a block of data records to an untyped binary file
23077: Type System Boolean Allows just True and False values
23078: Function Classes Bounds Create a TRect value from top left and size values
23079: Procedure System Break Forces a jump out of a single loop
23080: Type System Byte An integer type supporting values 0 to 255
23081:
23082: C
23083: Type System Cardinal The basic unsigned integer type
23084: Keyword Case A mechanism for acting upon different values of an Ordinal
23085: Function StdConv CelsiusToFahrenheit Convert a celsius temperature into fahrenheit
23086: Function SysUtils ChangeFileExt Change the extension part of a file name
23087: Type System Char Variable type holding a single character
23088: Procedure System ChDir Change the working drive plus path for a specified drive
23089: Function System Chr Convert an integer into a character
23090: Keyword Class Starts the declaration of a type of object class
23091: Procedure System Close Closes an open file
23092: Procedure System CloseFile Closes an open file
23093: Variable System CmdLine Holds the execution text used to start the current program
23094: Type System Comp A 64 bit signed integer
23095: Function SysUtils CompareStr Compare two strings to see which is greater than the other
23096: Function SysUtils CompareText Compare two strings for equality, ignoring case

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23097: Function Math CompareValue Compare numeric values with a tolerance
23098: Function System Concat Concatenates one or more strings into one string
23099: Keyword Const Starts the definition of fixed data values
23100: Keyword Constructor Defines the method used to create an object from a class
23101: Procedure System Continue Forces a jump to the next iteration of a loop
23102: Function ConvUtils Convert Convert one measurement value to another
23103: Function System Copy Create a copy of part of a string or an array
23104: Function System Cos The Cosine of a number
23105: Function SysUtils CreateDir Create a directory
23106: Type System Currency A floating point type with 4 decimals used for financial values
23107: Variable SysUtils CurrencyDecimals Defines decimal digit count in the Format function
23108: Variable SysUtils CurrencyFormat Defines currency string placement in curr display functions
23109: Variable SysUtils CurrencyString The currency string used in currency display functions
23110: Function SysUtils CurrToStr Convert a currency value to a string
23111: Function SysUtils CurrToStrF Convert a currency value to a string with formatting
23112:
23113: D
23114: Compiler Directive $D Determines whether application debug information is built
23115: Compiler Directive $DebugInfo Determines whether application debug information is built
23116: Compiler Directive $Define Defines a compiler directive symbol -as used by IfDef
23117: Compiler Directive $DefinitionInfo Determines whether application symbol information is built
23118: Function SysUtils Date Gives the current date
23119: Variable SysUtils DateSeparator The character used to separate display date fields
23120: Function SysUtils DateTimeToFileDate Convert a TDateTime value to a File date/time format
23121: Function SysUtils DateTimeToStr Converts TDateTime date and time values to a string
23122: Procedure SysUtils DateTimeToString Rich formatting of a TDateTime variable into a string
23123: Function SysUtils DateToStr Converts a TDateTime date value to a string
23124: Function DateUtils DayOfTheMonth Gives day of month index for a TDateTime value (ISO 8601)
23125: Function DateUtils DayOfTheWeek Gives day of week index for a TDateTime value (ISO 8601)
23126: Function DateUtils DayOfTheYear Gives the day of the year for a TDateTime value (ISO 8601)
23127: Function SysUtils DayOfWeek Gives day of week index for a TDateTime value
23128: Function DateUtils DaysBetween Gives the whole number of days between 2 dates
23129: Function DateUtils DaysInAMonth Gives the number of days in a month
23130: Function DateUtils DaysInAYear Gives the number of days in a year
23131: Function DateUtils DaySpan Gives the fractional number of days between 2 dates
23132: Procedure System Dec Decrement an ordinal variable
23133: Variable SysUtils DecimalSeparator The character used to display the decimal point
23134: Procedure SysUtils DecodeDate Extracts the year, month, day values from a TDateTime var.
23135: Procedure DateUtils DecodeDateTime Breaks a TDateTime variable into its date/time parts
23136: Procedure SysUtils DecodeTime Break a TDateTime value into individual time values
23137: Directive Default Defines default processing for a property
23138: Function Math DegToRad Convert a degrees value to radians
23139: Procedure System Delete Delete a section of characters from a string
23140: Function SysUtils DeleteFile Delete a file specified by its file name
23141: Keyword Destructor Defines the method used to destroy an object
23142: Function SysUtils DirectoryExists Returns true if the given directory exists
23143: Function SysUtils DiskFree Gives the number of free bytes on a specified drive
23144: Function SysUtils DiskSize Gives the size in bytes of a specified drive
23145: Procedure System Dispose Dispose of storage used by a pointer type variable
23146: Keyword Div Performs integer division, discarding the remainder
23147: Keyword Do Defines the start of some controlled action
23148: Type System Double A floating point type supporting about 15 digits of precision
23149: Keyword DownTo Prefixes an decremental for loop target value
23150: Function StrUtils DupeString Creates a string containing copies of a substring
23151: Directive Dynamic Allows a class method to be overriden in derived classes
23152:
23153: E
23154: Compiler Directive $Else Starts the alternate section of an IfDef or IfNDef
23155: Compiler Directive $EndIf Terminates conditional code compilation
23156: Compiler Directive $ExtendedSyntax Controls some Pascal extension handling
23157: Keyword Else Starts false section of if, case and try statements
23158: Function SysUtils EncodeDate Build a TDateTime value from year, month and day values
23159: Function DateUtils EncodeDateTime Build a TDateTime value from day and time values
23160: Function SysUtils EncodeTime Build a TDateTime value from hour, min, sec and msec values
23161: Keyword End Keyword that terminates statement blocks
23162: Function DateUtils EndOfDay Generate a TDateTime value set to the very end of a day
23163: Function DateUtils EndOfAMonth Generate a TDateTime value set to the very end of a month
23164: Procedure System EndThread Terminates a thread with an exit code
23165: Function System Eof Returns true if a file opened with Reset is at the end
23166: Function System Eoln Returns true if the current text file is pointing at a line end
23167: Procedure System Erase Erase a file
23168: Variable System ErrorAddr Sets the error address when an application terminates
23169: Keyword Except Starts the error trapping clause of a Try statement
23170: Procedure System Exclude Exclude a value in a set variable
23171: Procedure System Exit Exit abruptly from a function or procedure
23172: Variable System ErrorCode Sets the return code when an application terminates
23173: Function System Exp Gives the exponent of a number
23174: Directive System Export Makes a function or procedure in a DLL externally available
23175: Type System Extended The floating point type with the highest capacity and precision
23176: Function SysUtils ExtractFileDir Extracts the dir part of a full file name
23177: Function SysUtils ExtractFileDrive Extracts the drive part of a full file name
23178: Function SysUtils ExtractFileExt Extracts the extension part of a full file name
23179: Function SysUtils ExtractFileName Extracts the name part of a full file name
23180: Function SysUtils ExtractFilePath Extracts the path part of a full file name
23181:
23182: F
23183: Function StdConv FahrenheitToCelsius Convert a fahrenheit temperature into celsius
23184: Keyword File Defines a typed or untyped file
23185: Function SysUtils FileAge Get the last modified date/time of a file without opening it

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23186: Function SysUtils FileDateToDateTime Converts a file date/time format to a TDateTime value
23187: Function SysUtils FileExists Returns true if the given file exists
23188: Function SysUtils FileGetAttr Gets the attributes of a file
23189: Variable System FileMode Defines how Reset opens a binary file
23190: Function System FilePos Gives the file position in a binary or text file
23191: Function SysUtils FileSearch Search for a file in one or more directories
23192: Function SysUtils FileSetAttr Sets the attributes of a file
23193: Function SysUtils FileSetDate Set the last modified date and time of a file
23194: Function System FileSize Gives the size in records of an open file
23195: Procedure System FillChar Fills out a section of storage with a fill character or byte value
23196: Keyword Finally Starts the unconditional code section of a Try statement
23197: Function SysUtils FindClose Closes a successful FindFirst file search
23198: Function SysUtils FindCmdLineSwitch Determine whether a certain parameter switch was passed
23199: Function SysUtils FindFirst Finds all files matching a file mask and attributes
23200: Function SysUtils FindNext Find the next file after a successful FindFirst
23201: Function SysUtils FloatToStr Convert a floating point value to a string
23202: Function SysUtils FloatToStrF Convert a floating point value to a string with formatting
23203: Procedure System Flush Flushes buffered text file data to the file
23204: Keyword For Starts a loop that executes a finite number of times
23205: Function SysUtils ForceDirectories Create a new path of directories
23206: Function SysUtils Format Rich formatting of numbers and text into a string
23207: Function SysUtils FormatCurr Rich formatting of a currency value into a string
23208: Function SysUtils FormatDateTime Rich formatting of a TDateTime variable into a string
23209: Function SysUtils FormatFloat Rich formatting of a floating point number into a string
23210: Function System Frac The fractional part of a floating point number
23211: Procedure SysUtils FreeAndNil Free memory for an object and set it to nil
23212: Procedure System FreeMem Free memory storage used by a variable
23213: Keyword System Function Defines a subroutine that returns a value
23214:
23215: G
23216: Function SysUtils GetCurrentDir Get the current directory (drive plus directory)
23217: Procedure System GetDir Get the default directory (drive plus path) for a specified drive
23218: Function System GetLastError Gives the error code of the last failing Windows API call
23219: Procedure SysUtils GetLocaleFormatSettings Gets locale values for thread-safe functions
23220: Function System GetMem Get a specified number of storage bytes
23221: Keyword Goto Forces a jump to a label, regardless of nesting
23222:
23223: H
23224: Compiler Directive $H Treat string types as AnsiString or ShortString
23225: Compiler Directive $Hints Determines whether Delphi shows compilation hints
23226: Procedure System Halt Terminates the program with an optional dialog
23227: Function System Hi Returns the hi-order byte of a (2 byte) Integer
23228: Function System High Returns the highest value of a type or variable
23229:
23230: I
23231: Compiler Directive $I Allows code in an include file to be incorporated into a Unit
23232: Compiler Directive $IfDef Executes code if a conditional symbol has been defined
23233: Compiler Directive $IfNDef Executes code if a conditional symbol has not been defined
23234: Compiler Directive $IfOpt Tests for the state of a Compiler directive
23235: Compiler Directive $Include Allows code in an include file to be incorporated into a Unit
23236: Compiler Directive $IOChecks When on, an IO operation error throws an exception
23237: Keyword If Starts a conditional expression to determine what to do next
23238: Keyword Implementation Starts the implementation (code) section of a Unit
23239: Keyword In Used to test if a value is a member of a set
23240: Procedure System Inc Increment an ordinal variable
23241: Function DateUtils IncDay Increments a TDateTime variable by + or - number of days
23242: Procedure System Include Include a value in a set variable
23243: Function DateUtils IncMillisecond Increments a TDateTime variable by + or - number of milliseconds
23244: Function DateUtils IncMinute Increments a TDateTime variable by + or - number of minutes
23245: Function SysUtils IncMonth Increments a TDateTime variable by a number of months
23246: Function DateUtils IncSecond Increments a TDateTime variable by + or - number of seconds
23247: Function DateUtils IncYear Increments a TDateTime variable by a number of years
23248: Directive Index Principally defines indexed class data properties
23249: Constant Math Infinity Floating point value of infinite size
23250: Keyword Inherited Used to call the parent class constructor or destructor method
23251: Variable System Input Defines the standard input text file
23252: Function Dialogs InputBox Display a dialog that asks for user text input, with default
23253: Function Dialogs InputQuery Display a dialog that asks for user text input
23254: Procedure System Insert Insert a string into another string
23255: Function System Int The integer part of a floating point number as a float
23256: Type System Int64 A 64 bit sized integer - the largest in Delphi
23257: Type System Integer The basic Integer type
23258: Keyword System Interface Used for Unit external definitions, and as a Class skeleton
23259: Function SysUtils IntToHex Convert an Integer into a hexadecimal string
23260: Function SysUtils IntToStr Convert an integer into a string
23261: Function System IOResult Holds the return code of the last I/O operation
23262: Keyword Is Tests whether an object is a certain class or descendant
23263: Function Math IsInfinite Checks whether a floating point number is infinite
23264: Function SysUtils IsLeapYear Returns true if a given calendar year is a leap year
23265: Function System IsMultiThread Returns true if the code is running multiple threads
23266: Function Math IsNaN Checks to see if a floating point number holds a real number
23267:
23268: L
23269: Compiler Directive $L Determines what application debug information is built
23270: Compiler Directive $LocalSymbols Determines what application debug information is built
23271: Compiler Directive $LongStrings Treat string types as AnsiString or ShortString
23272: Function SysUtils LastDelimiter Find the last position of selected characters in a string
23273: Function System Length Return the number of elements in an array or string
23274: Function System Ln Gives the natural logarithm of a number

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23275: **Function** System Lo Returns the low-order byte of a (2 byte) Integer
23276: **Function** Math Log10 Gives the log to base 10 of a number
23277: Variable SysUtils LongDateFormat Long version of the date to string format
23278: Variable SysUtils LongDayNames An array of days of the week names, starting 1 = Sunday
23279: **Type** System LongInt An Integer whose size is guaranteed to be 32 bits
23280: Variable SysUtils LongMonthNames An array of days of the month names, starting 1 = January
23281: Variable SysUtils LongTimeFormat Long version of the time to string format
23282: **Type** System LongWord A 32 bit unsigned integer
23283: **Function** System Low Returns the lowest value of a type or variable
23284: **Function** SysUtils LowerCase Change upper case characters in a string to lower case
23285:
23286: M
23287: Compiler Directive \$MinEnumSize Sets the minimum storage used to hold enumerated types
23288: **Function** Math Max Gives the maximum of two integer values
23289: Constant System MaxInt The maximum value an Integer can have
23290: Constant System MaxLongInt The maximum value an LongInt can have
23291: **Function** Math Mean Gives the average for a set of numbers
23292: **Function** Dialogs MessageDlg Displays a message, symbol, and selectable buttons
23293: **Function** Dialogs MessageDlgPos Displays a message plus buttons at a given screen position
23294: **Function** Math Min Gives the minimum of two integer values
23295: Constant SysUtils MinsPerDay Gives the number of minutes in a day
23296: **Procedure** System MkDir Make a directory
23297: Keyword Mod Performs integer division, returning the remainder
23298: Constant SysUtils MonthDays Gives the number of days in a month
23299: **Function** DateUtils MonthOfTheYear Gives the month of the year for a TDateTime value
23300: **Procedure** System Move Copy bytes of data from a source to a destination
23301:
23302: N
23303: Constant Math NaN Not a real number
23304: Variable SysUtils NegCurrFormat Defines negative amount formatting in currency displays
23305: **Procedure** System New Create a new pointer type variable
23306: Constant System Nil A pointer value that is defined as undetermined
23307: Keyword Not Boolean Not or bitwise not of one arguments
23308: **Function** SysUtils Now Gives the current date and time
23309: Variable Variants Null A variable that has no value
23310:
23311: O
23312: Compiler Directive \$O Determines whether Delphi optimises code when compiling
23313: Compiler Directive \$Optimization Determines whether Delphi optimises code when compiling
23314: Compiler Directive \$OverFlowChecks Determines whether Delphi checks integer and enum bounds
23315: Keyword System Object Allows a subroutine data type to refer to an object method
23316: **Function** System Odd Tests whether an integer has an odd value
23317: Keyword Of Linking keyword used in many places
23318: Keyword On Defines exception handling in a Try Except clause
23319: Keyword Or Boolean or or bitwise or of two arguments
23320: **Function** System Ord Provides the Ordinal value of an integer, character or enum
23321: Directive Out Identifies a routine parameter for output only
23322: Variable System Output Defines the standard output text file
23323: Directive Overload Allows 2 or more routines to have the same name
23324: Directive Override Defines a method that replaces a virtual parent class method
23325:
23326: P
23327: Keyword Packed Compacts complex data types into minimal storage
23328: **Type** System PAnsiChar A pointer to an AnsiChar value
23329: **Type** System PAnsiString Pointer to an AnsiString value
23330: **Function** System ParamCount Gives the number of parameters passed to the current program
23331: **Function** System ParamStr Returns one of the parameters used to run the current program
23332: **Type** System PChar A pointer to an Char value
23333: **Type** System PCurrency Pointer to a Currency value
23334: **Type** System PDateTime Pointer to a TDateTime value
23335: **Type** System PExtended Pointer to a Extended floating point value
23336: **Function** System Pi The mathematical constant
23337: **Type** System PInt64 Pointer to an Int64 value
23338: **Function** Classes Point Generates a TPoint value from X and Y values
23339: **Type** System Pointer Defines a general use Pointer to any memory based data
23340: **Function** Classes PointsEqual Compares two TPoint values for equality
23341: **Function** System Pos Find the position of one string in another
23342: **Function** System Pred Decrement an ordinal variable
23343: **Function** Printers Printer Returns a reference to the global Printer object
23344: Directive Private Starts the section of private data and methods in a class
23345: Keyword System Procedure Defines a subroutine that does not return a value
23346: **Procedure** FileCtrl ProcessPath Split a drive/path/filename string into its constituent parts
23347: Keyword System Program Defines the start of an application
23348: **Function** Dialogs PromptForFileName Shows a dialog allowing the user to select a file
23349: Keyword System Property Defines controlled access to class fields
23350: Directive Protected Starts a section of class private data accessible to sub-classes
23351: **Type** System PShortString A pointer to an ShortString value
23352: **Type** System PString Pointer to a String value
23353: **Function** Types PtInRect Tests to see if a point lies within a rectangle
23354: Directive Public Starts an externally accessible section of a class
23355: Directive Published Starts a published externally accessible section of a class
23356: **Type** System PVariant Pointer to a Variant value
23357: **Type** System PWideChar Pointer to a WideChar
23358: **Type** System PWideString Pointer to a WideString value
23359:
23360: Q
23361: Compiler Directive \$Q Determines whether Delphi checks integer and enum bounds
23362:
23363: R

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23364: Compiler Directive $R Determines whether Delphi checks array bounds
23365: Compiler Directive $RangeChecks Determines whether Delphi checks array bounds
23366: Compiler Directive $ReferenceInfo Determines whether symbol reference information is built
23367: Compiler Directive $Resource Defines a resource file to be included in the application linking
23368: Function Math RadToDeg Converts a radian value to degrees
23369: Keyword Raise Raise an exception
23370: Function System Random Generate a random floating point or integer number
23371: Procedure System Randomize Reposition the Random number generator next value
23372: Function Math RandomRange Generate a random integer number within a supplied range
23373: Variable System RandSeed Reposition the Random number generator next value
23374: Procedure System Read Read data from a binary or text file
23375: Procedure System ReadLn Read a complete line of data from a text file
23376: Type System Real A floating point type supporting about 15 digits of precision
23377: Type System Real48 The floating point type with the highest capacity and precision
23378: Procedure System ReallocMem Reallocate an existing block of storage
23379: Function DateUtils RecodeDate Change only the date part of a TDateTime variable
23380: Function DateUtils RecodeTime Change only the time part of a TDateTime variable
23381: Keyword Record A structured data type - holding fields of data
23382: Function Classes Rect Create a TRect value from 2 points or 4 coordinates
23383: Function SysUtils RemoveDir Remove a directory
23384: Procedure System Rename Rename a file
23385: Function SysUtils RenameFile Rename a file or directory
23386: Keyword Repeat Repeat statements until a termination condition is met
23387: Procedure SysUtils ReplaceDate Change only the date part of a TDateTime variable
23388: Procedure SysUtils ReplaceTime Change only the time part of a TDateTime variable
23389: Procedure System Reset Open a text file for reading, or binary file for read/write
23390: Variable System Result A variable used to hold the return value from a function
23391: Procedure System ReWrite Open a text or binary file for write access
23392: Procedure System RmDir Remove a directory
23393: Function System Round Rounds a floating point number to an integer
23394: Procedure System RunError Terminates the program with an error dialog
23395:
23396: S
23397: Constant SysUtils SecsPerDay Gives the number of seconds in a day
23398: Procedure System Seek Move the pointer in a binary file to a new record position
23399: Function System SeekEof Skip to the end of the current line or file
23400: Function System SeekEols Skip to the end of the current line or file
23401: Function FileCtrl SelectDirectory Display a dialog to allow user selection of a directory
23402: Variable System Self Hidden parameter to a method - refers to the containing object
23403: Keyword Set Defines a set of up to 255 distinct values
23404: Function SysUtils SetCurrentDir Change the current directory
23405: Procedure System SetLength Changes the size of a string, or the size(s) of an array
23406: Procedure System SetString Copies characters from a buffer into a string
23407: Keyword Shl Shift an integer value left by a number of bits
23408: Variable SysUtils ShortDateFormat Compact version of the date to string format
23409: Variable SysUtils ShortDayNames An array of days of the week names, starting 1 = Sunday
23410: Type System ShortInt An integer type supporting values -128 to 127
23411: Variable SysUtils ShortMonthNames An array of days of the month names, starting 1 = Jan
23412: Type System ShortString Defines a string of up to 255 characters
23413: Variable SysUtils ShortTimeFormat Short version of the time to string format
23414: Procedure Dialogs ShowMessage Display a string in a simple dialog with an OK button
23415: Procedure Dialogs ShowMessageFmt Display formatted data in a simple dialog with an OK button
23416: Procedure Dialogs ShowMessagePos Display a string in a simple dialog at a given screen position
23417: Keyword Shr Shift an integer value right by a number of bits
23418: Function System Sin The Sine of a number
23419: Type System Single The smallest capacity and precision floating point type
23420: Function System SizeOf Gives the storage byte size of a type or variable
23421: Function System Slice Creates a slice of an array as an Open Array parameter
23422: Type System SmallInt An Integer type supporting values from -32768 to 32767
23423: Function System Sqrr Gives the square of a number
23424: Function System Sqrt Gives the square root of a number
23425: Procedure System Str Converts an integer or floating point number to a string
23426: Type System String A data type that holds a string of characters
23427: Function System StringOfChar Creates a string with one character repeated many times
23428: Function SysUtils StringReplace Replace one or more substrings found within a string
23429: Function System StringToWideChar Converts a normal string into a WideChar 0 terminated buffer
23430: Function SysUtils StrScan Searches for a specific character in a constant string
23431: Function SysUtils StrToCurr Convert a number string into a currency value
23432: Function SysUtils StrToDate Converts a date string into a TDateTime value
23433: Function SysUtils StrToDateTime Converts a date+time string into a TDateTime value
23434: Function SysUtils StrToFloat Convert a number string into a floating point value
23435: Function SysUtils StrToInt Convert an integer string into an Integer value
23436: Function SysUtils StrToInt64 Convert an integer string into an Int64 value
23437: Function SysUtils StrToInt64Def Convert a string into an Int64 value with default
23438: Function SysUtils StrToIntDef Convert a string into an Integer value with default
23439: Function SysUtils StrToTime Converts a time string into a TDateTime value
23440: Function StrUtils StuffString Replaces a part of one string with another
23441: Function System Succ Increment an ordinal variable
23442: Function Math Sum Return the sum of an array of floating point values
23443:
23444: T
23445: Function Math Tan The Tangent of a number
23446: Type Classes TBits An object that can hold an infinite number of Boolean values
23447: Variable ConvUtils TConvFamily Defines a family of measurement types as used by Convert
23448: Type ConvUtils TConvType Defines a measurement type as used by Convert
23449: Type System TDateTime Data type holding a date and time value
23450: Type System Text Defines a file as a text file
23451: Type System TextFile Declares a file type for storing lines of text
23452: Type SysUtils TFloatFormat Formats for use in floating point number display functions

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23453: Type SysUtils TFormatSettings A record for holding locale values for thread-safe functions
23454: Keyword Then Part of an if statement - starts the true clause
23455: Variable SysUtils ThousandSeparator The character used to display the thousands separator
23456: Keyword ThreadVar Defines variables that are given separate instances per thread
23457: Function SysUtils Time Gives the current time
23458: Variable SysUtils TimeAMString Determines AM value in DateTimeToString procedure
23459: Variable SysUtils TimePMString Determines PM value in DateTimeToString procedure
23460: Variable SysUtils TimeSeparator The character used to separate display time fields
23461: Function SysUtils TimeToStr Converts a TDateTime time value to a string
23462: Type Classes TList General purpose container of a list of objects
23463: Keyword To Prefixes an incremental for loop target value
23464: Type System TObject The base class type that is ancestor to all other classes
23465: Function DateUtils Tomorrow Gives the date tomorrow
23466: Type Dialogs TOpenDialog Displays a file selection dialog
23467: Type Types TPoint Holds X and Y integer values
23468: Type Dialogs TPrintDialog Class that creates a printer selection and control dialog
23469: Type Types TRect Holds rectangle coordinate values
23470: Type SysUtils TReplaceFlags Defines options for the StringReplace routine
23471: Function SysUtils Trim Removes leading and trailing blanks from a string
23472: Function SysUtils TrimLeft Removes leading blanks from a string
23473: Function SysUtils TrimRight Removes trailing blanks from a string
23474: Function System Trunc The integer part of a floating point number
23475: Procedure System Truncate Truncates a file size - removes all data after the current position
23476: Keyword Try Starts code that has error trapping
23477: Type Dialogs TSaveDialog Displays a dialog for selecting a save file name
23478: Type SysUtils TSearchRec Record used to hold data for FindFirst and FindNext
23479: Type Classes TStringList Holds a variable length list of strings
23480: Type SysUtils TSysCharSet Characters used by supplied string parsing functions
23481: Type System TThreadFunc Defines the function to be called by BeginThread
23482: Variable SysUtils TwoDigitYearCenturyWindow Sets the century threshold for 2 digit year string conversions
23483: Keyword Type Defines a new category of variable or process
23484:
23485:
23486: U
23487: Compiler Directive $UnDef Undefines a compiler directive symbol - as used by IfDef
23488: Keyword Unit Defines the start of a unit file - a Delphi module
23489: Keyword Until Ends a Repeat control loop
23490: Function System UpCase Convert a Char value to upper case
23491: Function SysUtils UpperCase Change lower case characters in a string to upper case
23492: Keyword Uses Declares a list of Units to be imported
23493:
23494: V
23495: Procedure System Val Converts number strings to integer and floating point values
23496: Keyword Var Starts the definition of a section of data variables
23497: Type System Variant A variable type that can hold changing data types
23498: Function Variants VarType Gives the current type of a Variant variable
23499: Constant Variants VarTypeMask Mask for the meta-type part of a Variant variable
23500: Directive Virtual Allows a class method to be overridden in derived classes
23501:
23502: W
23503: Compiler Directive $Warnings Determines whether Delphi shows compilation warnings
23504: Keyword While Repeat statements whilst a continuation condition is met
23505: Type System WideChar Variable type holding a single International character
23506: Function System WideCharToString Copies a null terminated WideChar string to a normal string
23507: Type System WideString A data type that holds a string of WideChars
23508: Keyword With A means of simplifying references to structured variables
23509: Type System Word An integer type supporting values 0 to 65535
23510: Function SysUtils WrapText Add line feeds into a string to simulate word wrap
23511: Procedure System Write Write data to a binary or text file
23512: Procedure System WriteLn Write a complete line of data to a text file
23513:
23514: X
23515: Compiler Directive $X Controls some Pascal extension handling
23516: Keyword Xor Boolean Xor or bitwise Xor of two arguments
23517:
23518: Y
23519: Compiler Directive $Y Determines whether application symbol information is built
23520: Function DateUtils Yesterday Gives the date yesterday
23521:
23522: Z
23523: Compiler Directive $Z Sets the minimum storage used to hold enumerated types
23524:
23525: mapX:
23526:   if GetMAPX('html',ExePath+'cologne2mapX.html','cathedral cologne') then
23527:     writeln('cologne map found');
23528:     GetGeoMAP('html',ExePath+AFILENAME2,'dom cologne')
23529:     writeln(GetMapXGeoReverse('XML','47.0397826','7.62914761277888'))
23530:     OpenMapX('church trier');
23531:
23532: Signature:
23533: SHA1: maxbox3.exe B1CFFA2139BEF2D27D17C8212331A1E8C7584BD2
23534: CRC32: maxbox3.exe 304FC6C2
23535: Ref:
23536:   1. writeln(SHA1(Exepath+'\maxbox3.exe'))
23537:   2. shdig: TSHA1Digest;
23538:     shdig:= GetSHA1OfFile(false,exepath+'\maxbox3.exe');
23539:     for i:= 0 to 19 do write(BytetoHex(shdig[i]));
23540:
23541:   3. writeln(IntToHex(CRC32OfFile(exepath+'\maxbox3.exe'),4));

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23542:
23543: https://www.virustotal.com/en/file/...../
23544:
23545: SHA256: 17e0d19c9fadcc3c16cfcaac7b3e1453050dca8c83241d41f204da638ae4c113
23546: File name: maxbox3.exe
23547: Compilation timestamp 2014-10-09 09:19:19
23548: Entry Point 0x01154AE0
23549: Number of sections 10
23550: Detection ratio: 2 / 55
23551: Analysis date: 2014-10-09 13:22:01 UTC
23552:
23553: PE sections
23554: Name Virtual address Virtual size Raw size Entropy MD5
23555: .text 4096 18117300 18117632 6.59 97869ce98a5942fc525a55c2636406a2
23556: .idata 18124800 48164 48640 6.56 8a260bdbd982c6a0c120da909cbabe77
23557: .data 18173952 262780 263168 5.57 14b2778a2160f34df1dbe4ebcd5a2473
23558: .bss 18440192 367600 0 0.00 d41d8cd98f00b204e9800998ecf8427e
23559: .idata 18808832 54676 54784 5.52 b61cbd137919ed0e129d6a0b4450bf0f
23560: .edata 18866176 77 512 0.90 b9fb129a52e9590346006b22490f1aeb
23561: .tls 18870272 208 0 0.00 d41d8cd98f00b204e9800998ecf8427e
23562: .rdata 18874368 24 512 0.26 2f53adef7a5532a1d8444294ce179a52e
23563: .reloc 18878464 1153264 1153536 6.75 6f911e109eea583f7a15d5e84cfelc12
23564: .rsrc 20033536 3430400 3430400 5.26 d90a71c9121d79482d68d6ba80f149d8
23565:
23566: File identification
23567: MD5 16b6cab86f976ebaf521afbe0a9f1ad0
23568: SHA1 b1cffa2139bef2d27d17c8212331ale8c7584bd2
23569: SHA256 17e0d19c9fadcc3c16cfcaac7b3e1453050dca8c83241d41f204da638ae4c113
23570: ssdeep 393216:Orw/2P0kEm10mQreAepVwoQAqh4SPR4aJ/:OM2P00nqoQ7hW
23571:
23572: authentihash dba614373e881ac632048dc60cf0e9199291ddce7afcb8c8c717ffd38cb2e94e
23573: imphash 5c32bd8a9083e008ac27ac5ea1657322
23574: File size 22.0 MB ( 23070208 bytes )
23575: File type Win32 EXE
23576: Magic literal
23577: PE32 executable for MS Windows (GUI) Intel 80386 32-bit
23578:
23579: TrID Windows ActiveX control (36.4%)
23580: Inno Setup installer (34.3%)
23581: InstallShield setup (13.4%)
23582: Win32 EXE PECompact compressed (generic) (13.0%)
23583: Win32 Executable (generic) (1.4%)
23584:
23585: Number of PE resources by type
23586: RT_BITMAP 699
23587: RT_STRING 304
23588: RT_RCDATA 154
23589: RT_ICON 49
23590: RT_GROUP_ICON 43
23591: RT_CURSOR 31
23592: RT_GROUP_CURSOR 26
23593: WAVE 9
23594: RT_DIALOG 2
23595: RT_HTML 2
23596: RT_MESSAGETABLE 1
23597: RT_MANIFEST 1
23598: RT_VERSION 1
23599:
23600: ExifTool file metadata
23601: SpecialBuild
23602: mX4
23603: CodeSize 18165272
23604: SubsystemVersion 4.0
23605: Comments
23606: reduce to the max
23607: LinkerVersion 2.25
23608: ImageVersion 0.0
23609: FileSubtype 0
23610: FileVersionNumber 3.9.9.100
23611: LanguageCode
23612: German (Swiss)
23613: FileFlagsMask 0x003f
23614: FileDescription maxbox Delphi VM
23615: CharacterSet Windows, Latin1
23616: InitializedDataSize 4902912
23617: FileOS Win32
23618:TimeStamp 2014:10:09 10:19:19+01:00
23619: MIMEType application/octet-stream
23620: ---- bigbitbox code_cleared_checked----
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