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1: s*****
2: Constructor Function and Procedure List of maXbox 3.9.9
3: *****
4:
5: //////////////////////////////////////
6: ref Help Extraxt of EXE Functions of maxbox3.exe BigBitBox API HEX in BOX
7: -----
8:
9: File Size of EXE:19834880 V3.9.9.94 April 2014 To EKON/BASTA/JAX/IBZ/SWS
10: *****Now the Funclist*****
11: Funclist Function : 11992 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 7507 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1239 //995 //
16: def head:max: maXbox7: 10.03.2014 19:11:55
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: 20738! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 19590
22: ASize of EXE: 19834880 (16586240) (13511680) (13023744)
23: SHA1 Hash of maXbox 3.9.9.94: 64A167821033864F9DF3478987B2EE997EF89AC5
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 AddParamsSQLForDetail(Params:TParams;SQL:WideStr;Native:Bool;QuoteChar:WideString):WideString
105: Function Addr64ToAddr32(const Value: TJclAddr64): TJclAddr32;
106: Function Addr32ToAddr64(const Value: TJclAddr32): TJclAddr64;
107: function AdjustLineBreaksS(const S: string): string
108: TTextLineBreakStyle', '(tlbsLF, tlbsCRLF)
109: Function AdjustLineBreaks(const S: string; Style: TTextLineBreakStyle): string;
110: Function AllData : string
111: function AllocMemCount: integer;
112: function AllocMemSize: integer;
113: Function AllocPatternBitmap( BkColor, FgColor : TColor) : TBitmap
114: Function AllowRegKeyForEveryone( Key : HKEY; Path : string) : Boolean
115: Function AlphaComponent( const Color32 : TColor32) : Integer
116: Function AlphaSort : Boolean
117: Function AlphaSort( ARecurse : Boolean) : Boolean
118: Function AnsiCat( const x, y : AnsiString) : AnsiString
119: Function AnsiCompareFileName( S1, S2 : string) : Integer
120: function AnsiCompareFileName(const S1: string; const S2: string): Integer)
121: Function AnsiCompareStr( S1, S2 : string) : Integer
122: function AnsiCompareStr(const S1: string; const S2: string): Integer;)
123: Function AnsiCompareText( S1, S2 : string) : Integer
124: function AnsiCompareText(const S1: string; const S2: string): Integer;)
125: Function AnsiContainsStr( const AText, ASubText : string) : Boolean
126: Function AnsiContainsText( const AText, ASubText : string) : Boolean
127: Function AnsiCopy( const src : AnsiString; index, count : Integer) : AnsiString
128: Function AnsiDequotedStr( S : string; AQuote : Char) : string
129: Function AnsiEndsStr( const ASubText, AText : string) : Boolean
130: Function AnsiEndsText( const ASubText, AText : string) : Boolean
131: Function AnsiExtractQuotedStr( var Src : PChar; Quote : Char) : string
132: function AnsiExtractQuotedStr(var Src: PChar; Quote: Char): string)
133: Function AnsiIndexStr( const AText : string; const AValues : array of string) : Integer
134: Function AnsiIndexText( const AText : string; const AValues : array of string) : Integer
135: Function AnsiLastChar( S : string) : PChar
136: function AnsiLastChar(const S: string): PChar)
137: Function AnsiLeftStr( const AText : AnsiString; const ACount : Integer) : AnsiString
138: Function AnsiLowerCase( S : string) : string
139: Function AnsiLowercase(s : String) : String;
140: Function AnsiLowerCaseFileName( S : string) : string
141: Function AnsiMatchStr( const AText : string; const AValues : array of string) : Boolean
142: Function AnsiMatchText( const AText : string; const AValues : array of string) : Boolean
143: Function AnsiMidStr( const AText : AnsiString; const AStart, ACount : Integer) : AnsiString
144: Function AnsiPos( const src, sub : AnsiString) : Integer
145: Function AnsiPos( Substr, S : string) : Integer
146: function AnsiPos(const Substr: string; const S: string): Integer;)
147: Function AnsiQuotedStr( S : string; Quote : Char) : string
148: Function AnsiReplaceStr( const AText, AFromText, AToText : string) : string
149: Function AnsiReplaceText( const AText, AFromText, AToText : string) : string
150: Function AnsiResemblesText( const AText, AOther : string) : Boolean
151: Function AnsiReverseString( const AText : AnsiString) : AnsiString
152: Function AnsiRightStr( const AText : AnsiString; const ACount : Integer) : AnsiString
153: function AnsiSameCaption(const Text1: string; const Text2: string): Boolean)
154: Function AnsiSameStr( S1, S2 : string) : Boolean
155: function AnsiSameStr(const S1: string; const S2: string): Boolean)
156: Function AnsiSameText( const S1, S2 : string) : Boolean
157: Function AnsiSameText( S1, S2 : string) : Boolean
158: function AnsiSameText(const S1: string; const S2: string): Boolean)
159: Function AnsiStartsStr( const ASubText, AText : string) : Boolean
160: Function AnsiStartsText( const ASubText, AText : string) : Boolean
161: Function AnsiStrComp( S1, S2 : PChar) : Integer
162: function AnsiStrComp(S1: PChar; S2: PChar): Integer)
163: Function AnsiStrIComp( S1, S2 : PChar) : Integer
164: function AnsiStrIComp(S1: PChar; S2: PChar): Integer)
165: Function AnsiStrLastChar( P : PChar) : PChar
166: function AnsiStrLastChar(P: PChar): PChar)
167: Function AnsiStrLComp( S1, S2 : PChar; MaxLen : Cardinal) : Integer
168: Function AnsiStrLComp( S1, S2 : PChar; MaxLen : Cardinal) : Integer
169: Function AnsiStrLower( Str : PChar) : PChar
170: Function AnsiStrPos( Str, SubStr : PChar) : PChar
171: function AnsiStrPos(Str: PChar; SubStr: PChar): PChar)
172: Function AnsiStrScan(Str: PChar; Chr: Char): PChar)
173: Function AnsiStrUpper( Str : PChar) : PChar
174: Function AnsiToUtf8( const S : string) : UTF8String
175: Function AnsiToUtf8Ex( const S : string; const cp : integer) : UTF8String
176: Function AnsiUpperCase( S : string) : string
177: Function AnsiUppercase(s : String) : String;
178: Function AnsiUpperCaseFileName( S : string) : string

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

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

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

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

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

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612: Function DelChar( const pStr : string; const pChar : Char) : string
613: Function DelEnvironmentVar( const Name : string) : Boolean
614: Function Delete( const MsgNum : Integer) : Boolean
615: Function DeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean) : Boolean
616: Function DeleteFile(const FileName: string): boolean
617: Function DeleteFileEx( FileName : string; Flags : FILEOP_FLAGS) : Boolean
618: Function DelimiterPosn( const sString : string; const sDelimiters: string): integer;
619: Function DelimiterPosn1(const sString:string;const sDelimiters:string;out cDelimiter: char) : integer;
620: Function DelSpace( const pStr : string) : string
621: Function DelString( const pStr, pDelStr : string) : string
622: Function DelTree( const Path : string) : Boolean
623: Function Depth : Integer
624: Function Description : string
625: Function DescriptionsAvailable : Boolean
626: Function DescriptionToConvFamily( const ADescription : string; out AFamily : TConvFamily) : Boolean
627: Function DescriptionToConvType( const ADescription : string; out AType : TConvType) : Boolean;
628: Function DescriptionToConvType1(const AFamil:TConvFamily;const ADescr:string;out AType:TConvType):Boolean;
629: Function DetectUTF8Encoding( const s : UTF8String) : TEncodeType
630: Function DialogsToPixelsX( const Dialogs : Word) : Word
631: Function DialogsToPixelsY( const Dialogs : Word) : Word
632: Function Digits( const X : Cardinal) : Integer
633: Function DirectoryExists( const Name : string) : Boolean
634: Function DirectoryExists( Directory : string) : Boolean
635: Function DiskFree( Drive : Byte) : Int64
636: function DiskFree(Drive: Byte): Int64
637: Function DiskInDrive( Drive : Char) : Boolean
638: Function DiskSize( Drive : Byte) : Int64
639: function DiskSize(Drive: Byte): Int64
640: Function DISPATCHCOMMAND( ACOMMAND : WORD) : BOOLEAN
641: Function DispatchEnabled : Boolean
642: Function DispatchMask : TMask
643: Function DispatchMethodType : TMethodType
644: Function DISPATCHPOPUP( AHANDLE : HMENU) : BOOLEAN
645: Function DispatchRequest( Sender : TObject; Request : TWebRequest; Response : TWebResponse) : Boolean
646: Function DisplayCase( const S : String) : String
647: Function DisplayRect( Code : TDisplayCode) : TRect
648: Function DisplayRect( TextOnly : Boolean) : TRect
649: Function DisplayStream( Stream : TStream) : string
650: TBufferCoord', 'record Char : integer; Line : integer; end
651: TDisplayCoord', 'record Column : integer; Row : integer; end
652: Function DisplayCoord( AColumn, ARow : Integer) : TDisplayCoord
653: Function BufferCoord( AChar, ALine : Integer) : TBufferCoord
654: Function DomainName( const AHost : String) : String
655: Function DosPathToUnixPath( const Path : string) : string
656: Function DottedLineTo( const Canvas : TCanvas; const X, Y : Integer) : Boolean;
657: Function DoubleDecliningBalance( const Cost, Salvage : Extended; Life, Period : Integer) : Extended
658: Function DoubleToBcd( const AValue : Double) : TBcd;
659: Function DoubleToHex( const D : Double) : string
660: Function DoUpdates : Boolean
661: function Dragging: Boolean;
662: Function DrawCaption( p1 : HWND; p2 : HDC; const p3 : TRect; p4 : UINT) : BOOL
663: Function DrawAnimatedRects( hwnd : HWND; idAni : Integer; const lprcFrom, lprcTo : TRect) : BOOL
664: Function DrawEdge( hdc : HDC; var qrc : TRect; edge : UINT; grfFlags : UINT) : BOOL
665: Function DrawFrameControl( DC : HDC; const Rect : TRect; uType, uState : UINT) : BOOL
666: {Works like InputQuery but displays 2edits. If PasswordChar <> #0, the second edit's PasswordChar is set}
667: Function DualInputQuery(const ACapt,Prpt1,Prpt2:string;var AVall,AVal2:string;PasswrdrChar:Char= #0):Bool;
668: Function DupeString( const AText : string; ACount : Integer) : string
669: Function Edit : Boolean
670: Function EditCaption : Boolean
671: Function EditText : Boolean
672: Function EditFolderList( Folders : TStrings) : Boolean
673: Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext) : Boolean
674: Function Elapsed( const Update : Boolean) : Cardinal
675: Function EnableProcessPrivilege( const Enable : Boolean; const Privilege : string) : Boolean
676: Function EnableThreadPrivilege( const Enable : Boolean; const Privilege : string) : Boolean
677: Function EncodeDate( Year, Month, Day : Word) : TDateTime
678: Function EncodeDate(Year, Month, Day: Word): TDateTime;
679: Function EncodeDateDay( const AYear, ADayOfYear : Word) : TDateTime
680: Function EncodeDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word) : TDateTime
681: Function EncodeDateTime(const AYear,AMonth,ADay,AMinute,ASecond,AMilliSecond: Word): TDateTime
682: Function EncodeDateWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
683: Function EncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word) : TDateTime
684: Function EncodeString( s : string) : string
685: Function DecodeString( s : string) : string
686: Function EncodeTime( Hour, Min, Sec, MSec : Word) : TDateTime
687: Function EncodeTime(Hour, Min, Sec, MSec: Word): TDateTime;
688: Function EndIP : String
689: Function EndOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
690: Function EndOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
691: Function EndOfAMonth( const AYear, AMonth : Word) : TDateTime
692: Function EndOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
693: Function EndOfAYear( const AYear : Word) : TDateTime
694: Function EndOfTheDay( const AValue : TDateTime) : TDateTime
695: Function EndOfTheMonth( const AValue : TDateTime) : TDateTime
696: Function EndOfTheWeek( const AValue : TDateTime) : TDateTime
697: Function EndOfTheYear( const AValue : TDateTime) : TDateTime
698: Function EndPeriod( const Period : Cardinal) : Boolean
699: Function EndsStr( const ASubText, AText : string) : Boolean
700: Function EndsText( const ASubText, AText : string) : Boolean

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

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

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

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

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1050: Function GetCurrentFolder : string
1051: Function GETCURRENTRECORD( BUFFER : PCHAR ) : BOOLEAN
1052: Function GetCurrentProcessId : TIdPID
1053: Function GetCurrentThreadHandle : THandle
1054: Function GetCurrentThreadId : LongWord; stdcall;
1055: Function GetCustomHeader( const Name : string ) : String
1056: Function GetDataItem( Value : Pointer ) : Longint
1057: Function GetDataLinkFiles( FileNames : TWideStrings; Directory : string ) : Integer;
1058: Function GetDataLinkFiles1( FileNames : TStrings; Directory : string ) : Integer;
1059: Function GETDATASIZE : INTEGER
1060: Function GetDC(hdwnd: HWND) : HDC;
1061: Function GetDefaultFileExt( const MIMEType : string ) : string
1062: Function GetDefaults : Boolean
1063: Function GetDefaultSchemaName : WideString
1064: Function GetDefaultStreamLoader : IStreamLoader
1065: Function GetDesktopDirectoryFolder : string
1066: Function GetDesktopFolder : string
1067: Function GetDFASState( oStates : TList ) : TniRegularExpressionState
1068: Function GetDirectorySize( const Path : string ) : Int64
1069: Function GetDisplayWidth : Integer
1070: Function GetDLLVersion( const DLLName : string; var pdwMajor, pdwMinor : Integer ) : Boolean
1071: Function GetDomainName : string
1072: Function GetDriverRegistryFile( DesignMode : Boolean ) : string
1073: function GetDriveType(rootpath: pchar): cardinal;
1074: Function GetDriveTypeStr( const Drive : Char ) : string
1075: Function GetEnumerator : TFavoriteLinkItemsEnumerator
1076: Function GetEnumerator : TListItemsEnumerator
1077: Function GetEnumerator : TTaskDialogButtonsEnumerator
1078: Function GetEnumerator : TToolBarEnumerator
1079: Function GetEnumerator : TTreeNodeEnumerator
1080: Function GetEnumerator : TWideStringsEnumerator
1081: Function GetEnvVar( const VarName : string ) : string
1082: Function GetEnvironmentVar( const AVariableName : string ) : string
1083: Function GetEnvironmentVariable( const VarName : string ) : string
1084: Function GetEnvironmentVar( const Name : string; var Value : string; Expand : Boolean ) : Boolean
1085: Function GetEnvironmentVars( const Vars : TStrings; Expand : Boolean ) : Boolean
1086: Function getEnvironmentString: string;
1087: Function GetExceptionHandler : TObject
1088: Function GetFavoritesFolder : string
1089: Function GetFieldByName( const Name : string ) : string
1090: Function GetFieldInfo( const Origin : WideString; var FieldInfo : TFieldInfo ) : Boolean
1091: Function GetFieldValue( ACol : Integer ) : string
1092: Function GetFileAgeCoherence( const FileName : string ) : Boolean
1093: Function GetFileCreation( const FileName : string ) : TFileTime
1094: Function GetFileCreationTime( const Filename : string ) : TDateTime
1095: Function GetFileInformation( const FileName : string ) : TSearchRec
1096: Function GetFileLastAccess( const FileName : string ) : TFileTime
1097: Function GetFileLastWrite( const FileName : string ) : TFileTime
1098: Function GetFileList(FileList: TStringlist; apath: string): TStringlist;
1099: Function GetFileList1(apath: string): TStringlist;
1100: Function GetFileMIMEType( const AFileName : string ) : string
1101: Function GetFileSize( const FileName : string ) : Int64
1102: Function GetFileVersion( AFileName : string ) : Cardinal
1103: Function GetFileVersion( const AFilename : string ) : Cardinal
1104: Function GetFileSize2(Handle: Integer; x: Integer): Integer; stdcall;
1105: Function GetFileDate(aFile:string; aWithTime:Boolean):string;
1106: Function GetFilterData( Root : PExprNode ) : TExprData
1107: Function getFirstChild : LongInt
1108: Function getFirstChild : TTreeNode
1109: Function GetFirstDelimitedToken( const cDelim : char; const cStr : string ) : string
1110: Function GetFirstNode : TTreeNode
1111: Function GetFontsFolder : string
1112: Function GetFormulaValue( const Formula : string ) : Extended
1113: Function GetFreePageFileMemory : Integer
1114: Function GetFreePhysicalMemory : Integer
1115: Function GetFreeSystemResources( const ResourceType : TFreeSysResKind ) : Integer;
1116: Function GetFreeSystemResources1 : TFreeSystemResources;
1117: Function GetFreeVirtualMemory : Integer
1118: Function GetFromClipboard : Boolean
1119: Function GetFullURI( const AOptionalFields : TIdURIOptionalFieldsSet ) : String
1120: Function GetGBitmap( Value : TBitmap ) : TBitmap
1121: Function GetGMTDateByName( const AFileName : TIdFileName ) : TDateTime
1122: Function GetGroupState( Level : Integer ) : TGroupPosInds
1123: Function GetHandle : HWND
1124: Function GETHELPCONTEXT( VALUE : INTEGER; BYCOMMAND : BOOLEAN ) : THELPCONTEXT
1125: function GetHexArray(ahexdig: THexArray): THexArray;
1126: Function GetHighLightColor( const Color : TColor; Luminance : Integer ) : TColor
1127: function GetHINSTANCE: longword;
1128: Function GetHistoryFolder : string
1129: Function GetHitTestInfoAt( X, Y : Integer ) : THitTests
1130: function getHMODULE: longword;
1131: Function GetHostByName(const AComputerName: String): String;
1132: Function GetHostName : string
1133: Function getHostIP: string;
1134: Function GetHotSpot : TPoint
1135: Function GetHueBitmap( Value : TBitmap ) : TBitmap
1136: Function GetImageBitmap : HBITMAP
1137: Function GETIMAGELIST : TCUSTOMIMAGELIST
1138: Function GetIncome( const aNetto : Currency ) : Currency

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1139: Function GetIncome( const aNetto : Extended) : Extended
1140: Function GetIncome( const aNetto : Extended): Extended
1141: Function GetIncome(const aNetto : Extended) : Extended
1142: function GetIncome(const aNetto: Currency): Currency
1143: Function GetIncome2( const aNetto : Currency) : Currency
1144: Function GetIncome2( const aNetto : Currency): Currency
1145: Function getIndex_Attrs( tag : string; var idx : Integer; var Attrs : string) : string
1146: Function GETINDEXFORFIELDS( const FIELDS : String; CASEINSENSITIVE : BOOLEAN) : TINDEXDEF
1147: Function GetIndexForOrderBy( const SQL : WideString; DataSet : TDataSet) : TIndexDef
1148: Function GetInstRes(Instance:THandle;ResType:TResType;const
    Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor):Boolean;
1149: Function
    GetInstRes1(Instance:THandle;ResType:TResType;ResID:DWORD;Width:Integer;LoadFlags:TLoadResources;MaskColor:
    TColor):Boolean;
1150: Function GetIntelCacheDescription( const D : Byte) : string
1151: Function GetInteractiveUserName : string
1152: Function GetInternetCacheFolder : string
1153: Function GetInternetFormattedFileTimeStamp( const AFilename : String) : String
1154: Function GetIPAddress( const HostName : string) : string
1155: Function GetIP( const HostName : string) : string
1156: Function GetIPHostByName(const AComputerName: String): String;
1157: Function GetIsAdmin: Boolean;
1158: Function GetItem( X, Y : Integer) : LongInt
1159: Function GetItemAt( X, Y : Integer) : TListItem
1160: Function GetItemHeight(Font: TFont): Integer;
1161: Function GetItemPath( Index : Integer) : string
1162: Function GetKeyFieldNames( List : TStringList) : Integer;
1163: Function GetKeyFieldNames1( List : TWideStrings) : Integer;
1164: Function GetKeyState( const VirtualKey : Cardinal) : Boolean
1165: Function GetLastChild : LongInt
1166: Function GetLastChild : TTreeNode
1167: Function GetLastDelimitedToken( const cDelim : char; const cStr : string) : string
1168: function GetLastError: Integer
1169: Function GetLAT_CONV_FACTOR: double; //for WGS84 power(1 - 1 / 298.257223563, 2);
1170: Function GetLoader( Ext : string) : TBitmapLoader
1171: Function GetLoadFilter : string
1172: Function GetLocalComputerName : string
1173: Function GetLocaleChar( Locale, LocaleType : Integer; Default : Char) : Char
1174: Function GetLocaleStr( Locale, LocaleType : Integer; Default : string) : string
1175: Function GetLocalUserName : string
1176: Function GetLoginUsername : WideString
1177: function getLongDayNames: string
1178: Function GetLongHint(const hint: string): string
1179: function getLongMonthNames: string
1180: Function GetMacAddresses( const Machine : string; const Addresses : TStringList) : Integer
1181: Function GetMainAppWndFromPid( PID : DWORD) : HWND
1182: Function GetMaskBitmap : HBITMAP
1183: Function GetMaxAppAddress : Integer
1184: Function GetMciErrorMessage( const MciErrNo : MCIERROR) : string
1185: Function GetMemoryLoad : Byte
1186: Function GetMIMEDefaultFileExt( const MIMETYPE : string) : TIdFileName
1187: Function GetMIMETYPEFromFile( const AFile : string) : string
1188: Function GetMIMETYPEFromFile( const AFile : TIdFileName) : string
1189: Function GetMinAppAddress : Integer
1190: Function GetModule : TComponent
1191: Function GetModuleHandle( ModuleName : PChar) : HMODULE
1192: Function GetModuleName( Module : HMODULE) : string
1193: Function GetModulePath( const Module : HMODULE) : string
1194: Function GetModuleFileName(Module: Integer; Filename: PChar;Size: Integer): Integer; stdcall;
1195: Function GetCommandLine: PChar; stdcall;
1196: Function GetMonochromeBitmap( Value : TBitmap) : TBitmap
1197: Function GetMultiN(aval: integer): string;
1198: Function GetName : String
1199: Function GetNearestItem( Point : TPoint; Direction : TSearchDirection) : TListItem
1200: Function GetNethoodFolder : string
1201: Function GetNext : TTreeNode
1202: Function GetNextChild( Value : LongInt) : LongInt
1203: Function GetNextChild( Value : TTreeNode) : TTreeNode
1204: Function GetNextDelimitedToken( const cDelim : char; var cStr : String) : String
1205: Function GetNextItem( StartItem: TListItem;Direction:TSearchDirection;States:TItemStates) : TListItem
1206: Function GetNextPacket : Integer
1207: Function getNextSibling : TTreeNode
1208: Function GetNextVisible : TTreeNode
1209: Function GetNode( ItemId : HTreeItem) : TTreeNode
1210: Function GetNodeAt( X, Y : Integer) : TTreeNode
1211: Function GetNodeDisplayWidth( Node : TOutlineNode) : Integer
1212: function GetNumberOfProcessors: longint;
1213: Function GetNumLockKeyState : Boolean
1214: Function GetObjectProperty( Instance : TPersistent; const PropName : string) : TObject
1215: Function GetOnlyTransitionOn( cChar : char) : TniRegularExpressionState
1216: Function GetOptionalParam( const ParamName : string) : OleVariant
1217: Function GetOSName: string;
1218: Function GetOSVersion: string;
1219: Function GetOSNumber: string;
1220: Function GetOsVersionInfo: TOSVersionInfo; //thx to wischniewski
1221: Function GetPackageModuleHandle( PackageName : PChar) : HMODULE
1222: function GetPageSize: Cardinal;
1223: Function GetParameterFileName : string
1224: Function GetParams( var OwnerData : OleVariant) : OleVariant

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1225: Function GETPARENTCOMPONENT : TCOMPONENT
1226: Function GetParentForm(control: TControl): TForm
1227: Function GETPARENTMENU : TMENU
1228: Function GetPassword : Boolean
1229: Function GetPassword : string
1230: Function GetPersonalFolder : string
1231: Function GetPidFromProcessName( const ProcessName : string) : DWORD
1232: Function GetPosition : TPoint
1233: Function GetPrev : TTreeNode
1234: Function GetPrevChild( Value : LongInt) : LongInt
1235: Function GetPrevChild( Value : TTreeNode) : TTreeNode
1236: Function getPrevSibling : TTreeNode
1237: Function GetPrevVisible : TTreeNode
1238: Function GetPrinthoodFolder : string
1239: Function GetPrivilegeDisplayName( const PrivilegeName : string) : string
1240: Function getProcessList: TStrings;
1241: Function GetProcessId : TIdPID
1242: Function GetProcessNameFromPid( PID : DWORD) : string
1243: Function GetProcessNameFromWnd( Wnd : HWND) : string
1244: Function GetProcessMemoryInfo(Process: THandle;ppsmemCounters: TProcessMemoryCounters;cb: DWORD):BOOL
1245: Function getProcessAllMemory(ProcessID : DWORD): TProcessMemoryCounters;
1246: Function getProcessMemoryInfo2(ProcessID : DWORD): TProcessMemoryCounters;
1247: Function GetProgramFilesFolder : string
1248: Function GetProgramsFolder : string
1249: Function GetProxy : string
1250: Function GetQuoteChar : WideString
1251: Function GetQrCode4(Width,Height:Word; Correct_Level:string;const
Data:string;aformat:string):TLinearBitmap;
1252: Function GetQrCodeToFile(Width,Height:Word;Correct_Level:string;const
Data:string;aformat:string):TLinearBitmap;
1253: Function GetRate : Double
1254: Function getPerfTime: string;
1255: Function getRuntime: string;
1256: Function GetRBitmap( Value : TBitmap) : TBitmap
1257: Function GetReadableName( const AName : string) : string
1258: Function GetRecentDocs : TStringList
1259: Function GetRecentFolder : string
1260: Function GetRecords( Count : Integer; out RecsOut : Integer; Options : Integer) : OleVariant;
1261: Function GetRecords1(Count:Integer; out RecsOut:Integer;Options:Integer;const CommandText:WideString;var
Params, OwnerData : OleVariant) : OleVariant;
1262: Function GetRecordset( const CommandText : WideString; ConnectionString : WideString) : _Recordset
1263: Function GetRegisteredCompany : string
1264: Function GetRegisteredOwner : string
1265: Function GetResource(ResType:TResType;const
Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor:Boolean
1266: Function GetResourceName( ObjStream : TStream; var AName : string) : Boolean
1267: Function GetResponse( const AAllowedResponses : array of SmallInt) : SmallInt;
1268: Function GetResponse1( const AAllowedResponse : SmallInt) : SmallInt;
1269: Function GetRValue( rgb : DWORD) : Byte
1270: Function GetGValue( rgb : DWORD) : Byte
1271: Function GetBValue( rgb : DWORD) : Byte
1272: Function GetCValue( cmyk : COLORREF) : Byte
1273: Function GetMValue( cmyk : COLORREF) : Byte
1274: Function GetYValue( cmyk : COLORREF) : Byte
1275: Function GetKValue( cmyk : COLORREF) : Byte
1276: Function CMYK( c, m, y, k : Byte) : COLORREF
1277: Function GetOSName: string;
1278: Function GetProcAddress( hModule : HMODULE; lpProcName : LPCSTR) : FARPROC
1279: Function GetProcAddress(Module : HMODULE; Proc : PChar): Dword
1280: Function GetSafeCallExceptionMsg : String
1281: Function GetSaturationBitmap( Value : TBitmap) : TBitmap
1282: Function GetSaveFilter : string
1283: Function GetSaver( Ext : string) : TBitmapLoader
1284: Function GetScrollLockKeyState : Boolean
1285: Function GetSearchString : string
1286: Function GetSelections( AList : TList) : TTreeNode
1287: Function GETSELTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1288: Function GetSendToFolder : string
1289: Function GetServer : IAppServer
1290: Function GetServerList : OleVariant
1291: Function GetShadowColor( const Color : TColor; Luminance : Integer) : TColor
1292: Function GetShellProcessHandle : THandle
1293: Function GetShellProcessName : string
1294: Function GetShellVersion : Cardinal
1295: function getShortDayNames: string
1296: Function GetShortHint(const hint: string): string
1297: function getShortMonthNames: string
1298: Function GetSizeOfFile( const FileName : string) : Int64;
1299: Function GetSizeOfFile1( Handle : THandle) : Int64;
1300: Function GetStdHandle(nStdHandle: Integer): Integer; stdcall;
1301: Function GetStartmenuFolder : string
1302: Function GetStartupFolder : string
1303: Function GetStringProperty( Instance : TPersistent; const PropName : string) : WideString
1304: Function GetSuccessor( cChar : char) : TniRegularExpressionState
1305: Function GetSwapFileSize : Integer
1306: Function GetSwapFileUsage : Integer
1307: Function GetSystemLocale : TIdCharSet
1308: Function GetSystemMetrics( nIndex : Integer) : Integer
1309: Function GetSystemPathSH(Folder: Integer): TFilename ;

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1310: Function GetTableNameFromQuery( const SQL : WideString) : WideString
1311: Function GetTableNameFromSQL( const SQL : WideString) : WideString
1312: Function GetTableNameFromSQLEx( const SQL : WideString; IdOption : IDENTIFIEROption) : WideString
1313: Function GetTasksList( const List : TStringList) : Boolean
1314: Function getTeamViewerID: string;
1315: Function GetTemplatesFolder : string
1316: Function GetText : PWideChar
1317: function GetText:PChar
1318: Function GetTextBuf( Buffer : PChar; BufSize : Integer) : Integer
1319: function GETTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1320: Function GetTextItem( const Value : string) : Longint
1321: function GETTEXTLEN:INTEGER
1322: Function GetThreadLocale: Longint; stdcall
1323: Function GetCurrentThreadID: LongWord; stdcall;
1324: Function GetTickCount : Cardinal
1325: Function GetTickDiff( const AOldTickCount, ANewTickCount : Cardinal) : Cardinal
1326: Function GetTicketNr : longint
1327: Function GetTime : Cardinal
1328: Function GetTime : TDateTime
1329: Function GetTimeout : Integer
1330: Function GetTimeStr: String
1331: Function GetTimeString: String
1332: Function GetTodayFiles(startdir, amask: string): TStringlist;
1333: Function getTokenCounts : integer
1334: Function GetTotalPageFileMemory : Integer
1335: Function GetTotalPhysicalMemory : Integer
1336: Function GetTotalVirtualMemory : Integer
1337: Function GetUniqueFileName( const APath, APrefix, AExt : String) : String
1338: Function GetUseNowForDate : Boolean
1339: Function GetUserDomainName( const CurUser : string) : string
1340: Function GetUserName : string
1341: Function GetUserName: string;
1342: Function GetUserObjectName( hUserObject : THandle) : string
1343: Function GetValueBitmap( Value : TBitmap) : TBitmap
1344: Function GetValueMSec : Cardinal
1345: Function GetValueStr : String
1346: Function GetVersion: int;
1347: Function GetVersionString(FileName: string): string;
1348: Function GetVisibleNode( Index : LongInt) : TOutlineNode
1349: Function GetVolumeFileSystem( const Drive : string) : string
1350: Function GetVolumeName( const Drive : string) : string
1351: Function GetVolumeSerialNumber( const Drive : string) : string
1352: Function GetWebAppServices : IWebAppServices
1353: Function GetWebRequestHandler : IWebRequestHandler
1354: Function GetWindowCaption( Wnd : HWND) : string
1355: Function GetWindowDC(hwnd: HWND): HDC;
1356: Function GetWindowIcon( Wnd : HWND; LargeIcon : Boolean) : HICON
1357: Function GetWindowRect(hwnd: HWND; arect: TRect): Boolean
1358: Function GetWindowsComputerID : string
1359: function GetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
1360: Function GetWindowsFolder : string
1361: Function GetWindowsServicePackVersion : Integer
1362: Function GetWindowsServicePackVersionString : string
1363: Function GetWindowsSystemFolder : string
1364: Function GetWindowsTempFolder : string
1365: Function GetWindowsUserID : string
1366: Function GetWindowsVersion : TWindowsVersion
1367: Function GetWindowsVersionString : string
1368: Function GmtOffsetStrToDateTime( S : string) : TDateTime
1369: Function GMTToLocalDateTime( S : string) : TDateTime
1370: Function GotoKey : Boolean
1371: Function GradToCycle( const Grads : Extended) : Extended
1372: Function GradToDeg( const Grads : Extended) : Extended
1373: Function GradToDeg( const Value : Extended) : Extended;
1374: Function GradToDeg1( const Value : Double) : Double;
1375: Function GradToDeg2( const Value : Single) : Single;
1376: Function GradToRad( const Grads : Extended) : Extended
1377: Function GradToRad( const Value : Extended) : Extended;
1378: Function GradToRad1( const Value : Double) : Double;
1379: Function GradToRad2( const Value : Single) : Single;
1380: Function Gray32( const Intensity : Byte; const Alpha : Byte) : TColor32
1381: Function GreenComponent( const Color32 : TColor32) : Integer
1382: Function GUIDToString(const GUID: TGUID): string)
1383: Function HandleAllocated : Boolean
1384: function HandleAllocated: Boolean;
1385: Function HandleRequest : Boolean
1386: Function HandleRequest( Request : TWebRequest; Response : TWebResponse) : Boolean
1387: Function HarmonicMean( const X : TDynFloatArray) : Float
1388: Function HasAsParent( Value : TTreeNode) : Boolean
1389: Function HASCHILDEFS : BOOLEAN
1390: Function HasCurValues : Boolean
1391: Function HasExtendCharacter( const s : UTF8String) : Boolean
1392: Function HasFormat( Format : Word) : Boolean
1393: Function HashValue( AStream : TStream) : T5x4LongWordRecord;
1394: Function HashValue(AStream : TStream) : T4x4LongWordRecord
1395: Function HashValue(AStream: TStream): LongWord
1396: Function HashValue(AStream: TStream): Word
1397: Function HashValue1( AStream : TStream; const ABeginPos, AEndPos : Int64) : T5x4LongWordRecord;
1398: Function HashValue1(AStream : TStream) : T4x4LongWordRecord

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1399: Function HashValue128(const ASrc: string): T4x4LongWordRecord;
1400: Function HashValue128Stream(AStream: TStream): T4x4LongWordRecord;
1401: Function HashValue16(const ASrc: string): Word;
1402: Function HashValue16Stream(AStream: TStream): Word;
1403: Function HashValue32(const ASrc: string): LongWord;
1404: Function HashValue32Stream(AStream: TStream): LongWord;
1405: Function HasMergeConflicts: Boolean
1406: Function hasMoreTokens: boolean
1407: Function HASPARENT: BOOLEAN
1408: function HasParent: Boolean
1409: Function HasTransaction( Transaction: TDBXTransaction): Boolean
1410: Function HasUTF8BOM( S: TStream): boolean;
1411: Function HasUTF8BOM1( S: AnsiString): boolean;
1412: Function Haversine( X: Float): Float
1413: Function Head( s: string; const subs: string; var tail: string): string
1414: Function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN
1415: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN
1416: function HELPJUMP(JUMPID:STRING):BOOLEAN
1417: Function HeronianMean(const a, b: Float): Float
1418: function HexStrToStr(Value: string): string;
1419: function HexToBin(Text, Buffer: PChar; BufSize: Integer): Integer;
1420: function HexToBin2(HexNum: string): string;
1421: Function HexToDouble(const Hex: string): Double
1422: function HexToInt(hexnum: string): LongInt;
1423: function HexToStr(Value: string): string;
1424: Function HexifyBlock(var Buffer, BufferSize: Integer): string
1425: function Hi(vdat: word): byte;
1426: function HiByte(W: Word): Byte)
1427: function High: Int64;
1428: Function HighlightCell(DataCol, DataRow: Integer; const Value: string; AState: TGridDrawState): Boolean
1429: function HINSTANCE: longword;
1430: function HiWord(l: DWORD): Word)
1431: function HMODULE: longword;
1432: Function HourOf(const AValue: TDateTime): Word
1433: Function HourOfDay(const AValue: TDateTime): Word
1434: Function HourOfTheMonth(const AValue: TDateTime): Word
1435: Function HourOfTheWeek(const AValue: TDateTime): Word
1436: Function HourOfTheYear(const AValue: TDateTime): Word
1437: Function HoursBetween(const ANow, AThen: TDateTime): Int64
1438: Function HourSpan(const ANow, AThen: TDateTime): Double
1439: Function HSLToRGB1(const H, S, L: Single): TColor32;
1440: Function HTMLDecode(const AStr: String): String
1441: Function HTMLEncode(const AStr: String): String
1442: Function HTMLEscape(const Str: string): string
1443: Function HtmlTable(DataSet: TDataSet; DataSetHandler: TDSTableProducer; MaxRows: Integer): string
1444: Function HTTPDecode(const AStr: String): string
1445: Function HTTPEncode(const AStr: String): string
1446: Function Hypot(const X, Y: Extended): Extended
1447: Function IBMax(n1, n2: Integer): Integer
1448: Function IBMin(n1, n2: Integer): Integer
1449: Function IBRandomString(iLength: Integer): String
1450: Function IBRandomInteger(iLow, iHigh: Integer): Integer
1451: Function IBStripString(st: String; CharsToStrip: String): String
1452: Function IBFormatIdentifier(Dialect: Integer; Value: String): String
1453: Function IBFormatIdentifierValue(Dialect: Integer; Value: String): String
1454: Function IBExtractIdentifier(Dialect: Integer; Value: String): String
1455: Function IBQuoteIdentifier(Dialect: Integer; Value: String): String
1456: Function IBAddIBParamSQLForDetail(Params: TParams; SQL: string; Native: Boolean; Dialect: Integer): string
1457: Procedure IBDecomposeDatabaseName(DatabaseName: String; var ServerName, Protocol, DatabasePath: String)
1458: Function RandomString(iLength: Integer): String;
1459: Function RandomInteger(iLow, iHigh: Integer): Integer;
1460: Function StripString(st: String; CharsToStrip: String): String;
1461: Function FormatIdentifier(Dialect: Integer; Value: String): String;
1462: Function FormatIdentifierValue(Dialect: Integer; Value: String): String;
1463: Function ExtractIdentifier(Dialect: Integer; Value: String): String;
1464: Function QuoteIdentifier(Dialect: Integer; Value: String): String;
1465: Function AddIBParamSQLForDetail(Params: TParams; SQL: string; Native: Boolean; Dialect: Integer): string;
1466: Procedure DecomposeDatabaseName(DatabaseName: String; var ServerName, Protocol, DatabasePath: String);
1467: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLToken): TSQLToken;
1468: Function IconToBitmap(Ico: HICON): TBitmap
1469: Function IconToBitmap2(Ico: HICON; Size: Integer; TransparentColor: TColor): TBitmap
1470: Function IconToBitmap3(Ico: HICON; Size: Integer; TransparentColor: TColor): TBitmap
1471: function IdentToCharset(const Ident: string; var CharSet: Longint): Boolean)
1472: function IdentToColor(const Ident: string; var Color: Longint): Boolean)
1473: function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1474: Function IdGetDefaultCharSet: TIdCharSet
1475: function IDispatchInvoke(Self: IDispatch; ProperSet: Boolean; const Name: String; Par: array of variant): variant
1476: Function IdPorts2: TStringList
1477: Function IdToMib(const Id: string): string
1478: Function IdSHA1Hash(aphash: string): string;
1479: Function IdHashSHA1(aphash: string): string;
1480: Function IfStr(const bCondition: boolean; const sTrue: string; const sFalse: string): string
1481: Function IfThen(AValue: Boolean; const ATrue: string; AFalse: string): string;
1482: Function iif1(ATest: Boolean; const ATrue: Integer; const AFalse: Integer): Integer;
1483: Function iif2(ATest: Boolean; const ATrue: string; const AFalse: string): string;
1484: Function iif3(ATest: Boolean; const ATrue: Boolean; const AFalse: Boolean): Boolean;
1485: function ImportTest(S1: string; s2: longint; s3: Byte; s4: word; var s5: string): string;

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1486: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer ) : TDateTime
1487: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64 ) : TDateTime
1488: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1489: Function IncLimit1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1490: Function IncLimit2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1491: Function IncLimit3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1492: Function IncLimit4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1493: Function IncLimit5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1494: Function IncLimit6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1495: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1496: Function IncLimitClamp1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1497: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1498: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1499: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1500: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1501: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1502: Function IncludeTrailingBackslash( S : string ) : string
1503: Function IncludeTrailingBackslash(const S : string) : string
1504: Function IncludeTrailingPathDelimiter( const APath : string ) : string
1505: Function IncludeTrailingPathDelimiter( S : string ) : string
1506: Function IncludeTrailingPathDelimiter(const S : string) : string
1507: Function IncludeTrailingSlash( const APath : string ) : string
1508: Function IncMilliSecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64 ) : TDateTime
1509: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64 ) : TDateTime
1510: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer ) : TDateTime
1511: Function IncMonth(const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime)
1512: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64 ) : TDateTime
1513: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer ) : TDateTime
1514: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer ) : TDateTime
1515: Function IndexOf( AClass : TClass ) : Integer
1516: Function IndexOf( AComponent : TComponent ) : Integer
1517: Function IndexOf( AObject : TObject ) : Integer
1518: Function INDEXOF( const ANAME : String ) : INTEGER
1519: Function IndexOf( const DisplayName : string ) : Integer
1520: Function IndexOf( const Item : TBookmarkStr ) : Integer
1521: Function IndexOf( const S : WideString ) : Integer
1522: Function IndexOf( const View : TJclFileMapView ) : Integer
1523: Function INDEXOF( FIELD : TFIELD ) : INTEGER
1524: Function IndexOf( ID : LCID ) : Integer
1525: Function INDEXOF( ITEM : TMENUITEM ) : INTEGER
1526: Function IndexOf( Value : TListItem ) : Integer
1527: Function IndexOf( Value : TTreeNode ) : Integer
1528: Function IndexOf(const S: string): Integer;
1529: Function IndexOfName( const Name : WideString ) : Integer
1530: Function IndexOfName(Name: string): Integer;
1531: Function IndexOfObject( AObject : TObject ) : Integer
1532: Function IndexOfObject(AObject:TObject):Integer
1533: Function IndexOfTabAt( X, Y : Integer ) : Integer
1534: Function IndexStr( const AText : string; const AValues : array of string ) : Integer
1535: Function IndexText( const AText : string; const AValues : array of string ) : Integer
1536: Function IndexOfInteger( AList : TStringList; Value : Variant ) : Integer
1537: Function IndexOfFloat( AList : TStringList; Value : Variant ) : Integer
1538: Function IndexOfDate( AList : TStringList; Value : Variant ) : Integer
1539: Function IndexOfString( AList : TStringList; Value : Variant ) : Integer
1540: Function IndyCompareStr( const A1 : string; const A2 : string ) : Integer
1541: Function IndyGetHostName : string
1542: Function IndyInterlockedDecrement( var I : Integer ) : Integer
1543: Function IndyInterlockedExchange( var A : Integer; B : Integer ) : Integer
1544: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer ) : Integer
1545: Function IndyInterlockedIncrement( var I : Integer ) : Integer
1546: Function IndyLowerCase( const A1 : string ) : string
1547: Function IndyStrToBool( const AString : String ) : Boolean
1548: Function IndyUpperCase( const A1 : string ) : string
1549: Function InitCommonControl( CC : Integer ) : Boolean
1550: Function InitTempPath : string
1551: Function InMainThread : boolean
1552: Function InOpArray( W : WideChar; sets : array of WideChar ) : boolean
1553: Function Input: Text)
1554: Function InputBox( const ACaption, APrompt, ADefault : string ) : string
1555: Function InputBox(const ACaption: string; const APrompt: string; const ADefault: string): string)
1556: Function InputLn(const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1557: Function InputQuery( const ACaption, APrompt : string; var Value : string ) : Boolean
1558: Function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean)
1559: Function InquireSignal( RtlSigNum : Integer ) : TSignalState
1560: Function InRangeR( const A, Min, Max : Double ) : Boolean
1561: Function Insert( Index : Integer ) : TCollectionItem
1562: Function Insert( Index : Integer ) : TComboExItem
1563: Function Insert( Index : Integer ) : THeaderSection
1564: Function Insert( Index : Integer ) : TListItem
1565: Function Insert( Index : Integer ) : TStatusPanel
1566: Function Insert( Index : Integer ) : TWorkArea
1567: Function Insert( Index : LongInt; const Text : string ) : LongInt
1568: Function Insert( Sibling : TTreeNode; const S : string ) : TTreeNode
1569: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM ) : INTEGER
1570: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM ) : INTEGER
1571: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
1572: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer ) : LongInt
1573: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
1574: Function Instance : Longint

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1575: function InstanceSize: Longint
1576: function Int(e : Extended) : Extended;
1577: function Int64ToStr(i: Int64): String;
1578: function IntegerToBcd( const AValue : Integer) : TBcd
1579: function Intensity( const Color32 : TColor32) : Integer;
1580: function Intensity( const R, G, B : Single) : Single;
1581: function InterestPayment(const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1582: function InterestRate(NPeriods:Integer;const Payment,PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime): Extended
1583: function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1584: function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1585: function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1586: function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1587: function IntersectRect(out Rect: TRect; const R1, R2: TRect): Boolean)
1588: function IntMibToStr( const Value : string) : string
1589: function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1590: function IntToBin( Value : cardinal) : string
1591: function IntToHex( Value : Integer; Digits : Integer) : string;
1592: function IntToHex(a: integer; b: integer): string;
1593: function IntToHex64( Value : Int64; Digits : Integer) : string;
1594: function IntToHex64(Value: Int64; Digits: Integer): string)
1595: function IntTo3Str( Value : Longint; separator: string) : string
1596: function inttobool( aInt : LongInt) : Boolean
1597: function IntToStr(i: Int64): String;
1598: function IntToStr64(Value: Int64): string)
1599: function IOResult: Integer
1600: function IPv6AddressToStr(const AValue: TIdIPv6Address): string
1601: function IsAccel(VK: Word; const Str: string): Boolean
1602: function IsAddressInNetwork( Address : string) : Boolean
1603: function IsAdministrator : Boolean
1604: function IsAlias( const Name : string) : Boolean
1605: function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1606: function IsASCII( const AByte : Byte) : Boolean;
1607: function IsASCIILDH( const AByte : Byte) : Boolean;
1608: function IsAssembly(const FileName: string): Boolean;
1609: function IsBcdNegative( const Bcd : TBcd) : Boolean
1610: function IsBinary(const AChar : Char) : Boolean
1611: function IsConsole: Boolean)
1612: function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1613: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean)
1614: function IsDelphiDesignMode : boolean
1615: function IsDelphiRunning : boolean
1616: function IsDFSState : boolean
1617: function IsDirectory( const FileName : string) : Boolean
1618: function IsDomain( const S : String) : Boolean
1619: function IsDragObject(Sender: TObject): Boolean;
1620: function IsEditing : Boolean
1621: function ISEMPTY : BOOLEAN
1622: function IsEqual( Value : TParameters) : Boolean
1623: function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1624: function IsEqualGUID(const guid1, guid2: TGUID): Boolean)
1625: function IsFirstNode : Boolean
1626: function IsFloatZero( const X : Float) : Boolean
1627: function IsFormatRegistered( Extension, AppID : string) : Boolean
1628: function IsFormOpen(const FormName: string): Boolean;
1629: function IsFQDN( const S : String) : Boolean
1630: function IsGrayScale : Boolean
1631: function IsHex( AChar : Char) : Boolean;
1632: function IsHexString(const AString: string): Boolean;
1633: function IsHostname( const S : String) : Boolean
1634: function IsInfinite( const AValue : Double) : Boolean
1635: function IsInLeapYear( const AValue : TDateTime) : Boolean
1636: function IsInternet: boolean;
1637: function IsLeadChar( ACh : Char) : Boolean
1638: function IsLeapYear( Year : Word) : Boolean
1639: function IsLeapYear(Year: Word): Boolean)
1640: function IsLibrary: Boolean)
1641: function ISLINE : BOOLEAN
1642: function IsLinkedTo( DataSet : TDataSet) : Boolean
1643: function ISLINKEDTO( DATASOURCE : TDATASOURCE) : BOOLEAN
1644: function IsLiteralChar( const EditMask : string; Offset : Integer) : Boolean
1645: function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1646: function IsMainAppWindow( Wnd : HWND) : Boolean
1647: function IsMediaPresentInDrive( Drive : Char) : Boolean
1648: function IsMemoryManagerSet: Boolean)
1649: function IsMultiTableQuery( const SQL : WideString) : Boolean
1650: function IsMultiThread: Boolean)
1651: function IsNumeric( AChar : Char) : Boolean;
1652: function IsNumeric2( const AString : string) : Boolean;
1653: function IsOctal( AChar : Char) : Boolean;
1654: function IsOctalString(const AString: string) : Boolean;
1655: function IsPathDelimiter( S : string; Index : Integer) : Boolean
1656: function IsPathDelimiter(const S: string; Index: Integer): Boolean)
1657: function IsPM( const AValue : TDateTime) : Boolean
1658: function IsPositiveFloatArray( const X : TDynFloatArray) : Boolean
1659: function IsPrimeFactor( const F, N : Cardinal) : Boolean
1660: function IsPrimeRM( N : Cardinal) : Boolean //rabin miller
1661: function IsPrimeTD( N : Cardinal) : Boolean //trial division

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1662: Function IsPrivilegeEnabled( const Privilege : string ) : Boolean
1663: Function ISqrt( const I : Smallint ) : Smallint
1664: Function IsReadOnly(const Filename: string): boolean;
1665: Function IsRectEmpty( const Rect : TRect ) : Boolean
1666: Function IsRectEmpty(const Rect: TRect): Boolean
1667: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1668: Function ISRIGHTTOLEFT : BOOLEAN
1669: Function IsRightToLeft: Boolean
1670: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1671: Function ISSEQUENCED : BOOLEAN
1672: Function IsSystemModule( const Module : HMODULE ) : Boolean
1673: Function IsSystemResourcesMeterPresent : Boolean
1674: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
1675: Function IsToday( const AValue : TDateTime ) : Boolean
1676: Function IsToday(const AValue: TDateTime): Boolean;
1677: Function IsTopDomain( const AStr : string ) : Boolean
1678: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1679: Function IsUTF8String( const s : UTF8String ) : Boolean
1680: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1681: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1682: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1683: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1684: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1685: Function IsValidDateTime(const AYear, AMonth, ADay, AHour, AMinute, ASecond, AMilliSecond: Word): Boolean
1686: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1687: Function IsValidIdent( Ident : string ) : Boolean
1688: function IsValidIdent(const Ident: string; AllowDots: Boolean): Boolean
1689: Function IsValidIP( const S : String ) : Boolean
1690: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1691: Function IsValidISBN( const ISBN : AnsiString ) : Boolean
1692: Function IsVariantManagerSet: Boolean; //deprecated;
1693: Function IsVirtualPcGuest : Boolean;
1694: Function IsVmWareGuest : Boolean;
1695: Function IsVCLControl(Handle: HWND): Boolean;
1696: Function IsWhiteString( const AStr : String ) : Boolean
1697: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1698: Function IsWoW64: boolean;
1699: Function IsWin64: boolean;
1700: Function IsWow64String(var s: string): Boolean;
1701: Function IsWin64String(var s: string): Boolean;
1702: Function IsWindowsVista: boolean;
1703: Function isPowerof2(num: int64): boolean;
1704: Function powerOf2(exponent: integer): int64;
1705: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1706: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1707: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1708: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean ) : Integer
1709: function ITEMATPOS(POS:TPOINT;EXISTING:BOOLEAN):INTEGER
1710: Function ItemRect( Index : Integer ) : TRect
1711: function ITEMRECT(INDEX:INTEGER):TRECT
1712: Function ItemWidth( Index : Integer ) : Integer
1713: Function JavahashCode(val: string): Integer;
1714: Function JosephusG(n,k: integer; var graphout: string): integer;
1715: Function JulianDateToDateTime( const AValue : Double ) : TDateTime
1716: Function JvMessageBox( const Text, Caption : string; Flags : DWORD ) : Integer;
1717: Function JvMessageBox1( const Text : string; Flags : DWORD ) : Integer;
1718: Function KeepAlive : Boolean
1719: Function KeysToShiftState(Keys: Word): TShiftState;
1720: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1721: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1722: Function KeyboardStateToShiftState: TShiftState; overload;
1723: Function Languages : TLanguages
1724: Function Last : TClass
1725: Function Last : TComponent
1726: Function Last : TObject
1727: Function LastDelimiter( Delimiters, S : string ) : Integer
1728: Function LastDelimiter(const Delimiters: string; const S: string): Integer
1729: Function LastPos( const ASubstr : string; const AStr : string ) : Integer
1730: Function Latitude2WGS84(lat: double): double;
1731: Function LCM(m,n:longint):longint;
1732: Function LCMJ( const X, Y : Cardinal ) : Cardinal
1733: Function Ldexp( const X : Extended; const P : Integer ) : Extended
1734: Function LeftStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
1735: Function LeftStr( const AText : WideString; const ACount : Integer ) : WideString;
1736: function Length: Integer;
1737: Procedure LetFileList(FileList: TStringlist; apath: string);
1738: function lengthmp3(mp3path: string):integer;
1739: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect ) : Boolean;
1740: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect ) : Boolean;
1741: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint; L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1742: function LineStart(Buffer, BufPos: PChar): PChar
1743: function LineStart(Buffer, BufPos: PChar): PChar
1744: function ListSeparator: char;
1745: function Ln(x: Extended): Extended;
1746: Function LnXP1( const X : Extended ) : Extended
1747: function Lo(vdat: word): byte;
1748: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1749: Function LoadedModulesList( const List : TStringList; ProcessID : DWORD; HandlesOnly : Boolean ) : Boolean

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1750: Function LoadFileAsString( const FileName : string ) : string
1751: Function LoadFromFile( const FileName : string ) : TBitmapLoader
1752: Function LoadLibraryEx( LibName: PChar; hFile: Longint; Flags: Longint ): Longint; stdcall;
1753: Function LoadPackage( const Name: string ) : HMODULE
1754: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle ) : HGLOBAL
1755: Function LoadStr( Ident : Integer ) : string
1756: Function LoadString( Instance: Longint; IDent: Integer; Buffer: PChar; Size: Integer ): Integer; stdcall;
1757: Function LoadWideStr( Ident : Integer ) : WideString
1758: Function LOCATE( const KEYFIELDS: String; const KEYVALUES: VARIANT; OPTIONS: TLOCATEOPTIONS ) : BOOLEAN
1759: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint ) : HRESULT
1760: Function LockServer( fLock : LongBool ) : HRESULT
1761: Function LockVolume( const Volume : string; var Handle : THandle ) : Boolean
1762: Function Log( const X : Extended ) : Extended
1763: Function Log10( const X : Extended ) : Extended
1764: Function Log2( const X : Extended ) : Extended
1765: function LogBase10( X: Float ): Float;
1766: Function LogBase2( X: Float ): Float;
1767: Function LogBaseN( Base, X: Float ): Float;
1768: Function LogN( const Base, X : Extended ) : Extended
1769: Function LogOffOS : Boolean
1770: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string ) : Boolean
1771: Function LoginDialogEx( const ADatabaseName: string; var AUserName, APassword: string; NameReadOnly: Bool ): Bool;
1772: Function LongDateFormat: string;
1773: function LongTimeFormat: string;
1774: Function LongWordToFourChar( ACardinal : LongWord ) : string
1775: Function LOOKUP( const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String ): VARIANT
1776: Function LookupName( const name : string ) : TInAddr
1777: Function LookupService( const service : string ) : Integer
1778: function Low: Int64;
1779: Function LowerCase( S : string ) : string
1780: Function Lowercase( s : AnyString ) : AnyString;
1781: Function LRot( const Value : Byte; const Count : TBitRange ) : Byte;
1782: Function LRotl( const Value : Word; const Count : TBitRange ) : Word;
1783: Function LRot2( const Value : Integer; const Count : TBitRange ) : Integer;
1784: function MainInstance: longword
1785: function MainThreadID: longword
1786: Function Map( x, in_min, in_max, out_min, out_max: integer ): integer; //arduino
1787: Function mapMax( ax, in_min, in_max, out_min, out_max: integer ): integer;
1788: Function MakeCanonicalIPv4Address( const AAddr : string ) : string
1789: Function MakeCanonicalIPv6Address( const AAddr : string ) : string
1790: Function MakeDIB( out Bitmap : PBitmapInfo ) : Integer
1791: Function MakeDWordIntoIPv4Address( const ADWord : Cardinal ) : string
1792: function MakeLong( A, B: Word ): Longint
1793: Function MakeTempFilename( const APath : String ) : string
1794: Function MakeValidFileName( const Str : string ) : string
1795: Function MakeValueMap( Enumeration : string; ToCds : Boolean ) : string
1796: function MakeWord( A, B: Byte ): Word
1797: Function MakeYear4Digit( Year, Pivot : Integer ) : Integer
1798: Function MapDateTime( const DateFormatType: string; DateFormat: string; Value: string; ToCds: Boolean ): string
1799: Function MapValues( Mapping : string; Value : string ) : string
1800: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char ) : string
1801: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer ) : TMaskCharType
1802: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer ) : TMaskDirectives
1803: Function MaskGetFldSeparator( const EditMask : string ) : Integer
1804: Function MaskGetMaskBlank( const EditMask : string ) : Char
1805: Function MaskGetMaskSave( const EditMask : string ) : Boolean
1806: Function MaskIntlLiteralToChar( IChar : Char ) : Char
1807: Function MaskOffsetToOffset( const EditMask : string; MaskOffset : Integer ) : Integer
1808: Function MaskOffsetToWideOffset( const EditMask : string; MaskOffset : Integer ) : Integer
1809: Function MaskString( Mask, Value : string ) : string
1810: Function Match( const sString : string ) : TniRegularExpressionMatchResul
1811: Function Matchl( const sString : string; iStart : integer ) : TniRegularExpressionMatchResult
1812: Function Matches( const Filename : string ) : Boolean
1813: Function MatchesMask( const Filename, Mask : string ) : Boolean
1814: Function MatchStr( const AText : string; const AValues : array of string ) : Boolean
1815: Function MatchText( const AText : string; const AValues : array of string ) : Boolean
1816: Function Max( AValueOne, AValueTwo : Integer ) : Integer
1817: function Max( const x, y: Integer ): Integer;
1818: Function Max1( const B1, B2 : Shortint ) : Shortint;
1819: Function Max2( const B1, B2 : Smallint ) : Smallint;
1820: Function Max3( const B1, B2 : Word ) : Word;
1821: function Max3( const x, y, z: Integer ): Integer;
1822: Function Max4( const B1, B2 : Integer ) : Integer;
1823: Function Max5( const B1, B2 : Cardinal ) : Cardinal;
1824: Function Max6( const B1, B2 : Int64 ) : Int64;
1825: Function Max64( const AValueOne, AValueTwo : Int64 ) : Int64
1826: Function MaxFloat( const X, Y : Float ) : Float
1827: Function MaxFloatArray( const B : TDynFloatArray ) : Float
1828: Function MaxFloatArrayIndex( const B : TDynFloatArray ) : Integer
1829: function MaxIntValue( const Data: array of Integer ): Integer
1830: Function MaxJ( const B1, B2 : Byte ) : Byte;
1831: function MaxPath: string;
1832: function MaxValue( const Data: array of Double ): Double
1833: Function MaxCalc( const Formula : string ) : Extended //math expression parser
1834: Procedure MaxCalcF( const Formula : string ); //out to console memo2
1835: function MD5( const fileName: string ): string;
1836: Function Mean( const Data : array of Double ) : Extended
1837: Function Median( const X : TDynFloatArray ) : Float
1838: Function Memory : Pointer

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1839: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer ) : Integer
1840: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1841: function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1842: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1843: Function MessageDlg1(const
Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1844: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
Y:Integer):Integer;
1845: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
1846: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
1847: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx
: Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn ) : Integer;
1848: Function MibToId( Mib : string ) : string
1849: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer ) : AnsiString;
1850: Function MidStr( const AText : WideString; const AStart, ACount : Integer ) : WideString;
1851: Function microsecondsToCentimeters(mseconds: longint): longint; //340m/s speed of sound
1852: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64
1853: Function MIDIOut( DeviceID : Cardinal ) : IJclMIDIOut
1854: Procedure GetMidiOutputs( const List : TStrings)
1855: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single ) : TSingleNoteTuningData
1856: Function MIDINoteToStr( Note : TMIDINote ) : string
1857: Function WinMidiOut( DeviceID : Cardinal ) : IJclWinMidiOut
1858: Procedure GetMidiOutputs( const List : TStrings)
1859: Procedure MidiOutCheck( Code : MMResult)
1860: Procedure MidiInCheck( Code : MMResult)
1861: Function MilliSecondOf( const AValue : TDateTime ) : Word
1862: Function MilliSecondOfDay( const AValue : TDateTime ) : LongWord
1863: Function MilliSecondOfTheHour( const AValue : TDateTime ) : LongWord
1864: Function MilliSecondOfTheMinute( const AValue : TDateTime ) : LongWord
1865: Function MilliSecondOfTheMonth( const AValue : TDateTime ) : LongWord
1866: Function MilliSecondOfTheSecond( const AValue : TDateTime ) : Word
1867: Function MilliSecondOfTheWeek( const AValue : TDateTime ) : LongWord
1868: Function MilliSecondOfTheYear( const AValue : TDateTime ) : Int64
1869: Function MilliSecondsBetween( const ANow, AThen : TDateTime ) : Int64
1870: Function MilliSecondSpan( const ANow, AThen : TDateTime ) : Double
1871: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean ) : Int64
1872: Function millis: int64;
1873: Function Min( AValueOne, AValueTwo : Integer ) : Integer
1874: Function Min1( const B1, B2 : Shortint ) : Shortint;
1875: Function Min2( const B1, B2 : Smallint ) : Smallint;
1876: Function Min3( const B1, B2 : Word ) : Word;
1877: Function Min4( const B1, B2 : Integer ) : Integer;
1878: Function Min5( const B1, B2 : Cardinal ) : Cardinal;
1879: Function Min6( const B1, B2 : Int64 ) : Int64;
1880: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1881: Function MinClientRect : TRect;
1882: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1883: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1884: Function MinFloat( const X, Y : Float ) : Float
1885: Function MinFloatArray( const B : TDynFloatArray ) : Float
1886: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1887: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1888: Function MinimizeName( const Filename : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1889: Function MinimizeName(const Filename: string; Canvas: TCanvas;MaxLen: Integer): TFileName
1890: Function MinIntValue( const Data : array of Integer ) : Integer
1891: function MinIntValue(const Data: array of Integer):Integer)
1892: Function MinJ( const B1, B2 : Byte ) : Byte;
1893: Function MinuteOf( const AValue : TDateTime ) : Word
1894: Function MinuteOfDay( const AValue : TDateTime ) : Word
1895: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1896: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1897: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1898: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1899: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1900: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1901: Function MinValue( const Data : array of Double ) : Double
1902: function MinValue(const Data: array of Double): Double)
1903: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1904: Function MMCheck( const MciError : MCIERROR; const Msg : string ) : MCIERROR
1905: Function ModFloat( const X, Y : Float ) : Float
1906: Function ModifiedJulianDateToDateTime( const AValue : Double ) : TDateTime
1907: Function Modify( const Key : string; Value : Integer ) : Boolean
1908: Function ModuleCacheID : Cardinal
1909: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1910: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1911: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1912: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1913: Function MonthOf( const AValue : TDateTime ) : Word
1914: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1915: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1916: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1917: Function MonthStr( DateTime : TDateTime ) : string
1918: Function MouseCoord( X, Y : Integer ) : TGridCoord
1919: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER
1920: Function MoveFile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1921: Function MoveNext : Boolean
1922: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp

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

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2006: Function PARAMBYNAME( const VALUE : String ) : TPARAM
2007: Function ParamByName( const Value : WideString ) : TParameter
2008: Function ParamCount: Integer
2009: Function ParamsEncode( const ASrc : string ) : string
2010: function ParamStr(Index: Integer): string
2011: Function ParseDate( const DateStr : string ) : TDateTime
2012: Function PARSESQL( SQL : String; DOCREATE : BOOLEAN ) : String
2013: Function ParseSQL( SQL : WideString; DoCreate : Boolean ) : WideString
2014: Function PathAddExtension( const Path, Extension : string ) : string
2015: Function PathAddSeparator( const Path : string ) : string
2016: Function PathAppend( const Path, Append : string ) : string
2017: Function PathBuildRoot( const Drive : Byte ) : string
2018: Function PathCanonicalize( const Path : string ) : string
2019: Function PathCommonPrefix( const Path1, Path2 : string ) : Integer
2020: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string;
2021: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int;CmpFmt:TCompactPath):string;
2022: Function PathEncode( const ASrc : string ) : string
2023: Function PathExtractFileDirFixed( const S : AnsiString ) : AnsiString
2024: Function PathExtractFileNameNoExt( const Path : string ) : string
2025: Function PathExtractPathDepth( const Path : string; Depth : Integer ) : string
2026: Function PathGetDepth( const Path : string ) : Integer
2027: Function PathGetLongName( const Path : string ) : string
2028: Function PathGetLongName2( Path : string ) : string
2029: Function PathGetShortName( const Path : string ) : string
2030: Function PathIsAbsolute( const Path : string ) : Boolean
2031: Function PathIsChild( const Path, Base : AnsiString ) : Boolean
2032: Function PathIsDiskDevice( const Path : string ) : Boolean
2033: Function PathIsUNC( const Path : string ) : Boolean
2034: Function PathRemoveExtension( const Path : string ) : string
2035: Function PathRemoveSeparator( const Path : string ) : string
2036: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2037: Function Peek : Pointer
2038: Function Peek : TObject
2039: function PERFORM(MSG:CARDINAL;WPARAM,LPARAM:LONGINT):LONGINT
2040: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime ) : Extended
2041: function Permutation(npr, k: integer): extended;
2042: function PermutationInt(npr, k: integer): Int64;
2043: Function PermutationJ( N, R : Cardinal ) : Float
2044: Function Pi : Extended;
2045: Function PiE : Extended;
2046: Function PixelsToDialogsX( const Pixels : Word ) : Word
2047: Function PixelsToDialogsY( const Pixels : Word ) : Word
2048: Function PlaySound(s: pchar; flag,syncflag: integer): boolean;
2049: Function Point( X, Y : Integer ) : TPoint
2050: function Point(X, Y: Integer): TPoint)
2051: Function PointAssign( const X, Y : Integer ) : TPoint
2052: Function PointDist( const P1, P2 : TPoint ) : Double;
2053: function PointDist(const P1,P2: TFloatPoint): Double;
2054: Function PointDist1( const P1, P2 : TFloatPoint ) : Double;
2055: function PointDist2(const P1,P2: TPoint): Double;
2056: Function PointEqual( const P1, P2 : TPoint ) : Boolean
2057: Function PointIsNull( const P : TPoint ) : Boolean
2058: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint ) : Double
2059: Function Poly( const X : Extended; const Coefficients : array of Double ) : Extended
2060: Function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
2061: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2062: Function Pop : Pointer
2063: Function Pop : TObject
2064: Function PopnStdDev( const Data : array of Double ) : Extended
2065: Function PopnVariance( const Data : array of Double ) : Extended
2066: Function PopulationVariance( const X : TDynFloatArray ) : Float
2067: function Pos(SubStr, S: AnyString): Longint;
2068: Function PosEqual( const Rect : TRect ) : Boolean
2069: Function PosEx( const SubStr, S : string; Offset : Integer ) : Integer
2070: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt ) : Integer
2071: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2072: Function Post1( AURL : string; const ASource : TStrings ) : string;
2073: Function Post2( AURL : string; const ASource : TStream ) : string;
2074: Function Post3( AURL : string; const ASource : TIdMultiPartFormDataStream ) : string;
2075: Function PostData( const UserData : WideString; const CheckSum : DWORD ) : Boolean
2076: Function PostData( const UserData : WideString; const CheckSum : integer ) : Boolean
2077: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2078: Function Power( const Base, Exponent : Extended ) : Extended
2079: Function PowerBig(aval, n:integer): string;
2080: Function PowerIntJ( const X : Float; N : Integer ) : Float;
2081: Function PowerJ( const Base, Exponent : Float ) : Float;
2082: Function PowerOffOS : Boolean
2083: Function PreformatDateString( Ps : string ) : string
2084: Function PresentValue(const Rate:Extend;NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2085: Function PrimeFactors( N : Cardinal ) : TDynCardinalArray
2086: Function Printer : TPrinter
2087: Function ProcessPath2( const ABasePath:String; const APath: String; const APathDelim:string) : string
2088: Function ProcessResponse : TIdHTTPWhatsNext
2089: Function ProduceContent : string
2090: Function ProduceContentFromStream( Stream : TStream ) : string
2091: Function ProduceContentFromString( const S : string ) : string

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

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2177: Function Reconcile( const Results : OleVariant) : Boolean
2178: Function Rect( Left, Top, Right, Bottom : Integer) : TRect
2179: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect)
2180: Function Rect2( const ATopLeft, ABottomRight : TPoint) : TRect;
2181: Function RectAssign( const Left, Top, Right, Bottom : Integer) : TRect
2182: Function RectAssignPoints( const TopLeft, BottomRight : TPoint) : TRect
2183: Function RectBounds( const Left, Top, Width, Height : Integer) : TRect
2184: Function RectCenter( const R : TRect) : TPoint
2185: Function RectEqual( const R1, R2 : TRect) : Boolean
2186: Function RectHeight( const R : TRect) : Integer
2187: Function RectIncludesPoint( const R : TRect; const Pt : TPoint) : Boolean
2188: Function RectIncludesRect( const R1, R2 : TRect) : Boolean
2189: Function RectIntersection( const R1, R2 : TRect) : TRect
2190: Function RectIntersectRect( const R1, R2 : TRect) : TRect
2191: Function RectIsEmpty( const R : TRect) : Boolean
2192: Function RectIsNull( const R : TRect) : Boolean
2193: Function RectIsSquare( const R : TRect) : Boolean
2194: Function RectIsValid( const R : TRect) : Boolean
2195: Function RectsAreValid( R : array of TRect) : Boolean
2196: Function RectUnion( const R1, R2 : TRect) : TRect
2197: Function RectWidth( const R : TRect) : Integer
2198: Function RedComponent( const Color32 : TColor32) : Integer
2199: Function Refresh : Boolean
2200: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2201: Function RegisterConversionFamily( const ADescription : string) : TConvFamily
2202: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType) : Boolean;
2203: Function RegisterConversionType(const AFam:TConvFam;const ADescr:string;const AFact:Double):TConvType
2204: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2205: Function ReleaseDC(hdwnd: HWND; hdc: HDC): integer;
2206: Function ReleaseHandle : HBITMAP
2207: Function ReleaseHandle : HENHMETAFILE
2208: Function ReleaseHandle : HICON
2209: Function ReleasePalette : HPALETTE
2210: Function RemainderFloat( const X, Y : Float) : Float
2211: Function Remove( AClass : TClass) : Integer
2212: Function Remove( AComponent : TComponent) : Integer
2213: Function Remove( AItem : Integer) : Integer
2214: Function Remove( AItem : Pointer) : Pointer
2215: Function Remove( Aitem : TObject) : TObject
2216: Function Remove( AObject : TObject) : Integer
2217: Function RemoveBackslash( const PathName : string) : string
2218: Function RemoveDF( aString : String) : String //removes thousand separator
2219: Function RemoveDir( Dir : string) : Boolean
2220: function RemoveDir(const Dir: string): Boolean)
2221: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2222: Function RemoveFileExt( const FileName : string) : string
2223: Function RemoveHeaderEntry( AHeader, AEntry : string) : string
2224: Function RenameFile( OldName, NewName : string) : Boolean
2225: function RenameFile(const OldName: string; const NewName: string): Boolean)
2226: Function ReplaceStr( const AText, AFromText, AToText : string) : string
2227: Function ReplaceText( const AText, AFromText, AToText : string) : string
2228: Function Replicate(c : char;I : longInt) : String;
2229: Function Request : TWebRequest
2230: Function ResemblesText( const AText, AOther : string) : Boolean
2231: Function Reset : Boolean
2232: function Reset2(mypath: string):string;
2233: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2234: Function ResourceLoad( ResType : TResType; const Name : string; MaskColor : TColor) : Boolean
2235: Function Response : TWebResponse
2236: Function ResumeSupported : Boolean
2237: Function RETHINKHOTKEYS : BOOLEAN
2238: Function RETHINKLINES : BOOLEAN
2239: Function Retrieve( const MsgNum : Integer; AMsg : TIdMessage) : Boolean
2240: Function RetrieveCurrentDir : string
2241: Function RetrieveDeltas( const cdsArray : array of TClientDataset) : Variant
2242: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIdMessage) : Boolean
2243: Function RetrieveMailBoxSize : integer
2244: Function RetrieveMsgSize( const MsgNum : Integer) : Integer
2245: Function RetrieveProviders( const cdsArray : array of TClientDataset) : Variant
2246: Function RetrieveRaw( const MsgNum : Integer; const Dest : TStrings) : boolean
2247: Function ReturnMIMEType( var MediaType, EncType : String) : Boolean
2248: Function ReverseBits( Value : Byte) : Byte;
2249: Function ReverseBits1( Value : Shortint) : Shortint;
2250: Function ReverseBits2( Value : Smallint) : Smallint;
2251: Function ReverseBits3( Value : Word) : Word;
2252: Function ReverseBits4( Value : Cardinal) : Cardinal;
2253: Function ReverseBits4( Value : Integer) : Integer;
2254: Function ReverseBits5( Value : Int64) : Int64;
2255: Function ReverseBytes( Value : Word) : Word;
2256: Function ReverseBytes1( Value : Smallint) : Smallint;
2257: Function ReverseBytes2( Value : Integer) : Integer;
2258: Function ReverseBytes3( Value : Cardinal) : Cardinal;
2259: Function ReverseBytes4( Value : Int64) : Int64;
2260: Function ReverseString( const AText : string) : string
2261: Function ReverseDNSLookup(const IPAddr:String;DNSServer:String;Timeout,Retries:Int;var
  HostName:String):Bool;
2262: Function Revert : HRESULT
2263: Function RGB(R,G,B: Byte): TColor;
2264: Function RGB2BGR( const Color : TColor) : TColor

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2265: Function RGB2TColor( R, G, B : Byte ) : TColor
2266: Function RGBToWebColorName( RGB : Integer ) : string
2267: Function RGBToWebColorStr( RGB : Integer ) : string
2268: Function RgbToHtml( Value : TColor ) : string
2269: Function HtmlToRgb(const Value: string): TColor;
2270: Function RightStr( const AStr : String; Len : Integer ) : String
2271: Function RightStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
2272: Function RightStr( const AText : WideString; const ACount : Integer ) : WideString;
2273: Function ROL( AVal : LongWord; AShift : Byte ) : LongWord
2274: Function ROR( AVal : LongWord; AShift : Byte ) : LongWord
2275: Function RotatePoint( Point : TFloatPoint; const Center : TFloatPoint; const Angle : Float ) : TFloatPoint
2276: function RotatePoint(Point: TFloatPoint; const Center: TFloatPoint; const Angle: Double): TFloatPoint;
2277: Function Round(e : Extended) : Longint;
2278: Function Round64(e: extended): Int64;
2279: Function RoundAt( const Value : string; Position : SmallInt) : string
2280: Function RoundFrequency( const Frequency : Integer ) : Integer
2281: Function RoundInt( Value : Integer; StepSize : Integer ) : Integer
2282: Function RoundPoint( const X, Y : Double ) : TPoint
2283: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double ) : TRect
2284: Function RowCount : Integer
2285: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant
2286: Function RowRequest( Row : OleVariant; Options : TFetchOptions ) : OleVariant
2287: Function RPos( const ASub, AIn : String; AStart : Integer ) : Integer
2288: Function RRot( const Value : Byte; const Count : TBitRange ) : Byte;
2289: Function RRot1( const Value : Word; const Count : TBitRange ) : Word;
2290: Function RRot2( const Value : Integer; const Count : TBitRange ) : Integer;
2291: Function RunDLL32(const ModuleNa,FuncName,CmdLine:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean
2292: Function RunningProcessesList( const List : TStringList; FullPath : Boolean ) : Boolean
2293: Function S_AddBackSlash( const ADirName : string ) : string
2294: Function S_AllTrim( const cStr : string ) : string
2295: Function S_AtRepl( const cAT, cStr, cRepl : string ) : string
2296: Function S_Cut( const cStr : string; const iLen : integer ) : string
2297: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer ) : integer
2298: Function S_DirExists( const ADir : string ) : Boolean
2299: Function S_Empty( const cStr : string ) : boolean
2300: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer ) : string
2301: Function S_LargeFontsActive : Boolean
2302: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer ) : Extended
2303: Function S_LTrim( const cStr : string ) : string
2304: Function S_ReadNextTextLineFromStream( stream : TStream ) : string
2305: Function S_RepeatChar( const iLen : integer; const AChar : Char ) : String
2306: Function S_Rep1First( const cAT, cStr, cRepl : string ) : string
2307: Function S_RoundDecimal( AValue : Extended; APlaces : Integer ) : Extended
2308: Function S_RTrim( const cStr : string ) : string
2309: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer ) : string
2310: //Type TS_ShellExecuteCmd = (seCmdOpen,seCmdPrint,seCmdExplore);
2311: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd ) : string
2312: Function S_Space( const iLen : integer ) : String
2313: Function S_StrBlanks( const cStr : string; const iLen : integer ) : string
2314: Function S_StrBlanksCuttooLong( const cStr : string; const iLen : integer ) : string
2315: Function S_StrCRC32( const Text : string ) : LongWORD
2316: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer ) : string
2317: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer ) : string
2318: Function S_StringToUTF_8( const AString : string ) : string
2319: Function S_StrLBlanks( const cStr : string; const iLen : integer ) : string
2320: function S_StrToReal(const cStr: string; var R: Double): Boolean
2321: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean ) : boolean
2322: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean ) : string
2323: Function S_UTF_8ToString( const AString : string ) : string
2324: Function S_WBox( const AText : string ) : integer
2325: Function SameDate( const A, B : TDateTime ) : Boolean
2326: function SameDate(const A, B: TDateTime): Boolean;
2327: Function SameDateTime( const A, B : TDateTime ) : Boolean
2328: function SameDateTime(const A, B: TDateTime): Boolean;
2329: Function SameFileName( S1, S2 : string ) : Boolean
2330: Function SameText( S1, S2 : string ) : Boolean
2331: Function SameText( const S1: string; const S2: string): Boolean)
2332: Function SameTime( const A, B : TDateTime ) : Boolean
2333: function SameTime(const A, B: TDateTime): Boolean;
2334: function SameValue(const A, B: Extended; Epsilon: Extended): Boolean //overload;
2335: function SameValue1(const A, B: Double; Epsilon: Double): Boolean //overload;
2336: function SameValue2(const A, B: Single; Epsilon: Single): Boolean //overload;
2337: Function SampleVariance( const X : TDynFloatArray ) : Float
2338: Function Sar( const Value : Shortint; const Count : TBitRange ) : Shortint;
2339: Function Sar1( const Value : Smallint; const Count : TBitRange ) : Smallint;
2340: Function Sar2( const Value : Integer; const Count : TBitRange ) : Integer;
2341: Function SaveToFile( const AFileName : TFileName ) : Boolean
2342: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2343: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2344: Function ScanF(const aformat: String; const args: array of const): string;
2345: Function SCREENTOCLIENT(POINT:TPOINT):TPOINT
2346: Function SearchBuf( Buf: PChar; BufLen: Integer; SelStart, SelLength: Integer; SearchString: String; Options: TStringSearchOptions): PChar
2347: Function SearchBuf2( Buf: String; SelStart, SelLength: Integer; SearchString: String; Options: TStringSearchOptions): Integer;
2348: function SearchRecattr: integer;
2349: function SearchRecExcludeAttr: integer;
2350: Function SearchRecFileSize64( const SearchRec : TSearchRec ) : Int64
2351: function SearchRename: string;

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

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2439: Function Signe( const X, Y : Extended) : Extended
2440: Function Sign( const X : Extended) : Integer
2441: Function Sin(e : Extended) : Extended;
2442: Function sinc( const x : Double) : Double
2443: Function SinJ( X : Float) : Float
2444: Function Size( const AFileName : String) : Integer
2445: function SizeOf: Longint;
2446: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer
2447: function SlashSep(const Path, S: String): String
2448: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended
2449: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
2450: Function SmallPoint(X, Y: Integer): TSmallPoint)
2451: Function Soundex( const AText : string; ALength : TSoundexLength) : string
2452: Function SoundexCompare( const AText, AOther : string; ALength : TSoundexLength) : Integer
2453: Function SoundexInt( const AText : string; ALength : TSoundexIntLength) : Integer
2454: Function SoundexProc( const AText, AOther : string) : Boolean
2455: Function SoundexSimilar( const AText, AOther : string; ALength : TSoundexLength) : Boolean
2456: Function SoundexWord( const AText : string) : Word
2457: Function SourcePos : Longint
2458: function SourcePos:LongInt
2459: Function Split0( Str : string; const substr : string) : TStringList
2460: Procedure SplitNameValue( const Line : string; var Name, Value : string)
2461: Function SQLRequiresParams( const SQL : WideString) : Boolean
2462: Function Sqr(e : Extended) : Extended;
2463: Function Sqrt(e : Extended) : Extended;
2464: Function StartIP : String
2465: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean
2466: Function StartOfDay( const AYear, AMonth, ADay : Word) : TDateTime;
2467: Function StartOfDay1( const AYear, ADayOfYear : Word) : TDateTime;
2468: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime
2469: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
2470: Function StartOfAYear( const AYear : Word) : TDateTime
2471: Function StartOfTheDay( const AValue : TDateTime) : TDateTime
2472: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime
2473: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime
2474: Function StartOfTheYear( const AValue : TDateTime) : TDateTime
2475: Function StartsStr( const ASubText, AText : string) : Boolean
2476: Function StartsText( const ASubText, AText : string) : Boolean
2477: Function StartsWith( const ANSIStr, APattern : String) : Boolean
2478: Function StartsWith( const str : string; const sub : string) : Boolean
2479: Function StartsWithACE( const ABytes : TIdBytes) : Boolean
2480: Function StatusString( StatusCode : Integer) : string
2481: Function StdDev( const Data : array of Double) : Extended
2482: Function Stop : Float
2483: Function StopCount( var Counter : TJclCounter) : Float
2484: Function StoreColumns : Boolean
2485: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2486: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2487: Function StrAlloc( Size : Cardinal) : PChar
2488: function StrAlloc(Size: Cardinal): PChar)
2489: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2490: Function StrBefore1( const sString : string; const sDelimiters: string; out cDelimiter: char): string;
2491: Function StrBufSize( Str : PChar) : Cardinal
2492: function StrBufSize(const Str: PChar): Cardinal)
2493: Function StrByteType( Str : PChar; Index : Cardinal) : TMbcsByteType
2494: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType)
2495: Function StrCat( Dest : PChar; Source : PChar) : PChar
2496: function StrCat(Dest: PChar; const Source: PChar): PChar)
2497: Function StrCharLength( Str : PChar) : Integer
2498: Function StrComp( Str1, Str2 : PChar) : Integer
2499: function StrComp(const Str1: PChar; const Str2: PChar): Integer)
2500: Function StrCopy( Dest : PChar; Source : PChar) : PChar
2501: function StrCopy(Dest: PChar; const Source: PChar): PChar)
2502: Function Stream_to_AnsiString( Source : TStream) : ansistring
2503: Function Stream_to_Base64( Source : TStream) : ansistring
2504: Function Stream_to_decimalbytes( Source : TStream) : string
2505: Function Stream2WideString( oStream : TStream) : WideString
2506: Function StreamtoAnsiString( Source : TStream) : ansistring
2507: Function StreamToByte( Source : TStream) : string
2508: Function StreamToDecimalbytes( Source : TStream) : string
2509: Function StreamtoOrd( Source : TStream) : string
2510: Function StreamToString( Source : TStream) : string
2511: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2512: Function StrEmpty( const sString : string) : boolean
2513: Function StrEnd( Str : PChar) : PChar
2514: function StrEnd(const Str: PChar): PChar)
2515: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2516: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar)
2517: Function StrGet(var S : String; I : Integer) : Char;
2518: Function StrGet2(S : String; I : Integer) : Char;
2519: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2520: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2521: Function StrHtmlDecode( const AStr : String) : String
2522: Function StrHtmlEncode( const AStr : String) : String
2523: Function StrToBytes(const Value: String): TBytes;
2524: Function StrIComp( Str1, Str2 : PChar) : Integer
2525: Function StringOfChar(c : char; I : longint) : String;
2526: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2527: Function StringPad(InputStr, FillChar: String; StrLen: Integer; StrJustify: Boolean): String;

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

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

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2700: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2701: Function ToggleBit5( const Value : Integer; const Bit : TBitRange) : Integer;
2702: Function ToggleBit6( const Value : Int64; const Bit : TBitRange) : Int64;
2703: function TokenComponentIdent:String
2704: Function TokenFloat : Extended
2705: function TokenFloat:Extended
2706: Function TokenInt : Longint
2707: function TokenInt:LongInt
2708: Function TokenString : string
2709: function TokenString:String
2710: Function TokenSymbolIs( const S : string) : Boolean
2711: function TokenSymbolIs(S:String):Boolean
2712: Function Tomorrow : TDateTime
2713: Function ToRightOf( const pc : TControl; piSpace : Integer) : Integer
2714: Function ToString : string
2715: Function TotalVariance( const Data : array of Double) : Extended
2716: Function Trace2( AURL : string) : string;
2717: Function TrackMenu( Button : TToolButton) : Boolean
2718: Function TRANSLATE( SRC, DEST : PCHAR; TOEM : BOOLEAN) : INTEGER
2719: Function TranslateURI( const URI : string) : string
2720: Function TranslationMatchesLanguages( Exact : Boolean) : Boolean
2721: Function TransparentStretchBlt( DstDC : HDC; DstX, DstY, DstW, DstH: Integer; SrcDC:HDC; SrcX, SrcY, SrcW,
SrcH: Integer; MaskDC : HDC; MaskX, MaskY : Integer) : Boolean
2722: Function Trim( S : string) : string;
2723: Function Trim( S : WideString) : WideString;
2724: Function Trim(s : AnyString) : AnyString;
2725: Function TrimAllOf( ATrim, AText : String) : String
2726: Function TrimLeft( S : string) : string;
2727: Function TrimLeft( S : WideString) : WideString;
2728: function TrimLeft(const S: string): string)
2729: Function TrimRight( S : string) : string;
2730: Function TrimRight( S : WideString) : WideString;
2731: function TrimRight(const S: string): string)
2732: function TrueBoolStrs: array of string
2733: Function Trunc(e : Extended) : Longint;
2734: Function Trunc64(e: extended): Int64;
2735: Function TruncPower( const Base, Exponent : Float) : Float
2736: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily) : Boolean;
2737: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily) : Boolean;
2738: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2739: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime) : Boolean
2740: Function TryEncodeDateMonthWeek(const AY, AMonth, AWeekOfMonth, ADayOfWeek: Word; var AValue: TDateTime): Boolean
2741: Function TryEncodeDateTime(const AYear, AMonth, ADay, AHour, AMin, ASec, AMilliSecond: Word; out
AValue: TDateTime): Boolean
2742: Function TryEncodeDateWeek(const AY, AWeekOfYear: Word; out AValue: TDateTime; const ADayOfWeek: Word): Boolean
2743: Function TryEncodeDayOfWeekInMonth(const AYear, AMonth, ANthDayOfWeek, ADayOfWeek: Word; out
AVal: TDateTime): Bool
2744: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2745: Function TryFloatToDateTime( Value : Extended; AResult : TDateTime) : Boolean
2746: Function TryJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime) : Boolean
2747: Function TryLock : Boolean
2748: Function TryModifiedJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime) : Boolean
2749: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
AMilliSecond : Word; out AResult : TDateTime) : Boolean
2750: Function TryStrToBcd( const AValue : string; var Bcd : TBcd) : Boolean
2751: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType) : Boolean
2752: Function TryStrToDate( S : string; Value : TDateTime) : Boolean;
2753: Function TryStrToDateTime( S : string; Value : TDateTime) : Boolean;
2754: Function TryStrToTime( S : string; Value : TDateTime) : Boolean;
2755: Function TryStrToInt(const S: AnsiString; var I: Integer): Boolean;
2756: Function TryStrToInt64(const S: AnsiString; var I: Int64): Boolean;
2757: Function TwoByteToWord( AByte1, AByte2 : Byte) : Word
2758: Function TwoCharToWord( AChar1, AChar2 : Char) : Word
2759: Function TwoToY( const Y : Float) : Float
2760: Function UCS4StringToWideString( const S : UCS4String) : WideString
2761: Function UIDL( const ADest : TStrings; const AMsgNum : Integer) : Boolean
2762: function Unassigned: Variant;
2763: Function UndoLastChange( FollowChange : Boolean) : Boolean
2764: function UniCodeToStr(Value: string): string;
2765: Function UnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
2766: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean)
2767: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal) : TDateTime
2768: Function UnixPathToDosPath( const Path : string) : string
2769: Function UnixToDateTime( const AValue : Int64) : TDateTime
2770: function UnixToDateTime(U: Int64): TDateTime;
2771: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HRESULT
2772: Function UnlockResource( ResData : HGLOBAL) : LongBool
2773: Function UnlockVolume( var Handle : THandle) : Boolean
2774: Function UnMaskString( Mask, Value : String) : String
2775: function UpCase(ch : Char) : Char;
2776: Function UpCaseFirst( const AStr : string) : string
2777: Function UpCaseFirstWord( const AStr : string) : string
2778: Function UpdateAction( Action : TBasicAction) : Boolean
2779: Function UpdateKind : TUpdateKind
2780: Function UPDATESTATUS : TUPDATESTATUS
2781: Function UpperCase( S : string) : string
2782: Function Uppercase(s : AnyString) : AnyString;
2783: Function URLEnCode( ASrc : string) : string
2784: Function URLEnCode( const ASrc : string) : string

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2785: Function UseRightToLeftAlignment : Boolean
2786: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment) : Boolean
2787: Function UseRightToLeftReading : Boolean
2788: Function UTF8CharLength( Lead : Char) : Integer
2789: Function UTF8CharSize( Lead : Char) : Integer
2790: Function UTF8Decode( const S : UTF8String) : WideString
2791: Function UTF8Encode( const WS : WideString) : UTF8String
2792: Function UTF8LowerCase( const S : UTF8string) : UTF8string
2793: Function Utf8ToAnsi( const S : UTF8String) : string
2794: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer) : string
2795: Function UTF8UpperCase( const S : UTF8string) : UTF8string
2796: Function ValidFieldIndex( FieldIndex : Integer) : Boolean
2797: Function ValidParentForm(control: TControl): TForm
2798: Function Value : Variant
2799: Function ValueExists( const Section, Ident : string) : Boolean
2800: Function ValueOf( const Key : string) : Integer
2801: Function ValueInSet(AValue: Variant; ASet: Variant): Boolean;
2802: Function VALUEOFKEY( const AKEY : VARIANT) : VARIANT
2803: Function VarArrayFromStrings( Strings : TStrings) : Variant
2804: Function VarArrayFromWideStrings( Strings : TWideStrings) : Variant
2805: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2806: Function VarFMTBcd : TVarType
2807: Function VarFMTBcdCreatel : Variant;
2808: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word) : Variant;
2809: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word) : Variant;
2810: Function VarFMTBcdCreate4( const ABcd : TBcd) : Variant;
2811: Function Variance( const Data : array of Double) : Extended
2812: Function VariantAdd2( const V1 : Variant; const V2 : Variant) : Variant
2813: Function VariantAnd2( const V1 : Variant; const V2 : Variant) : Variant
2814: Function VariantDiv2( const V1 : Variant; const V2 : Variant) : Variant
2815: Function VariantGetElement( const V : Variant; i1 : integer) : Variant;
2816: Function VariantGetElement1( const V : Variant; i1, i2 : integer) : Variant;
2817: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer) : Variant;
2818: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer) : Variant;
2819: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer) : Variant;
2820: Function VariantMod2( const V1 : Variant; const V2 : Variant) : Variant
2821: Function VariantMul2( const V1 : Variant; const V2 : Variant) : Variant
2822: Function VariantNeg( const V1 : Variant) : Variant
2823: Function VariantNot( const V1 : Variant) : Variant
2824: Function VariantOr2( const V1 : Variant; const V2 : Variant) : Variant
2825: Function VariantShl2( const V1 : Variant; const V2 : Variant) : Variant
2826: Function VariantShr2( const V1 : Variant; const V2 : Variant) : Variant
2827: Function VariantSub2( const V1 : Variant; const V2 : Variant) : Variant
2828: Function VariantXor2( const V1 : Variant; const V2 : Variant) : Variant
2829: function VarIsEmpty(const V: Variant): Boolean;
2830: Function VarIsFMTBcd( const AValue : Variant) : Boolean;
2831: function VarIsNull(const V: Variant): Boolean;
2832: Function VarToBcd( const AValue : Variant) : TBcd
2833: function VarType(const V: Variant): TVarType;
2834: Function VarType( const V : Variant) : TVarType
2835: Function VarAsType( const V : Variant; AVarType : TVarType) : Variant
2836: Function VarIsType( const V : Variant; AVarType : TVarType) : Boolean;
2837: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType) : Boolean;
2838: Function VarIsByRef( const V : Variant) : Boolean
2839: Function VarIsEmpty( const V : Variant) : Boolean
2840: Procedure VarCheckEmpty( const V : Variant)
2841: Function VarIsNull( const V : Variant) : Boolean
2842: Function VarIsClear( const V : Variant) : Boolean
2843: Function VarIsCustom( const V : Variant) : Boolean
2844: Function VarIsOrdinal( const V : Variant) : Boolean
2845: Function VarIsFloat( const V : Variant) : Boolean
2846: Function VarIsNumeric( const V : Variant) : Boolean
2847: Function VarIsStr( const V : Variant) : Boolean
2848: Function VarToStr( const V : Variant) : string
2849: Function VarToStrDef( const V : Variant; const ADefault : string) : string
2850: Function VarToWideStr( const V : Variant) : WideString
2851: Function VarToWideStrDef( const V : Variant; const ADefault : WideString) : WideString
2852: Function VarToDateTime( const V : Variant) : TDateTime
2853: Function VarFromDateTime( const DateTime : TDateTime) : Variant
2854: Function VarInRange( const AValue, AMin, AMax : Variant) : Boolean
2855: Function VarEnsureRange( const AValue, AMin, AMax : Variant) : Variant
2856: TVariantRelationship, '( vrEqual, vrLessThan, vrGreaterThan, vrNotEqual )
2857: Function VarSameValue( const A, B : Variant) : Boolean
2858: Function VarCompareValue( const A, B : Variant) : TVariantRelationship
2859: Function VarIsEmptyParam( const V : Variant) : Boolean
2860: Function VarIsError( const V : Variant; out AResult : HRESULT) : Boolean;
2861: Function VarIsError1( const V : Variant) : Boolean;
2862: Function VarAsError( AResult : HRESULT) : Variant
2863: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant)
2864: Function VarIsArray( const A : Variant) : Boolean;
2865: Function VarIsArray1( const A : Variant; AResolveByRef : Boolean) : Boolean;
2866: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType) : Variant
2867: Function VarArrayOf( const Values : array of Variant) : Variant
2868: Function VarArrayRef( const A : Variant) : Variant
2869: Function VarTypeIsValidArrayType( const AVarType : TVarType) : Boolean
2870: Function VarTypeIsValidElementType( const AVarType : TVarType) : Boolean
2871: Function VarArrayDimCount( const A : Variant) : Integer
2872: Function VarArrayLowBound( const A : Variant; Dim : Integer) : Integer
2873: Function VarArrayHighBound( const A : Variant; Dim : Integer) : Integer

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

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2963: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar ) : DWORD
2964: Function WordToStr( const Value : Word ) : String
2965: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint ) : Boolean
2966: Function IntToWorldGridFormatIdent( Value : Longint; var Ident : string ) : Boolean
2967: Procedure GetWordGridFormatValues( Proc : TGetStrProc)
2968: Function WorkArea : Integer
2969: Function WrapText( Line : string; MaxCol : Integer ) : string;
2970: Function WrapText( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer ) : string;
2971: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint ) : HRESULT
2972: function Write(Buffer:String;Count:LongInt):LongInt
2973: Function WriteClient( var Buffer, Count : Integer ) : Integer
2974: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean ) : Cardinal
2975: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string ) : Boolean
2976: Function WriteString( const AString : string ) : Boolean
2977: Function WStrGet(var S : AnyString; I : Integer ) : WideChar;
2978: Function wvsprintf( Output : PChar; Format : PChar; arglist : va_list ) : Integer
2979: Function wsprintf( Output : PChar; Format : PChar ) : Integer
2980: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string ) : string
2981: Function XmlTimeToStr( const XmlTime : string; const Format : string ) : string
2982: Function XorDecode( const Key, Source : string ) : string
2983: Function XorEncode( const Key, Source : string ) : string
2984: Function XorString( const Key, Src : ShortString ) : ShortString
2985: Function Yield : Bool
2986: Function YearOf( const AValue : TDateTime ) : Word
2987: Function YearsBetween( const ANow, AThen : TDateTime ) : Integer
2988: Function YearSpan( const ANow, AThen : TDateTime ) : Double
2989: Function Yesterday : TDateTime
2990: Function YesNoDialog(const ACaption, AMsg: string): boolean;
2991: Function ( const Name : string; Proc : TUserFunction)
2992: Function using Special_Scholz from 3.8.5.0
2993: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
2994: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
2995: Function FloatToTime2Dec(value:Extended):Extended;
2996: Function MinToStd(value:Extended):Extended;
2997: Function MinToStdAsString(value:Extended):String;
2998: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
2999: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3000: Function Round2Dec (zahl:Extended):Extended;
3001: Function GetAngle(x,y:Extended):Double;
3002: Function AddAngle(a1,a2:Double):Double;
3003:
3004: *****
3005: unit uPSI_StText;
3006: *****
3007: Function TextSeek( var F : TextFile; Target : LongInt ) : Boolean
3008: Function TextFileSize( var F : TextFile ) : LongInt
3009: Function TextPos( var F : TextFile ) : LongInt
3010: Function TextFlush( var F : TextFile ) : Boolean
3011:
3012: *****
3013: from JvVCLUtils;
3014: *****
3015: { Windows resources (bitmaps and icons) VCL-oriented routines }
3016: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3017: procedure DrawBitmapRectTransparent(Dest: TCanvas;DstX,
  DstY:Integer;SrcRect:TRect;Bitmap:TBitmap;TransparColor:TColor);
3018: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3019: function MakeBitmap(ResID: PChar): TBitmap;
3020: function MakeBitmapID(ResID: Word): TBitmap;
3021: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3022: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3023: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3024: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
  HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3025: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3026: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3027: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows, Index: Integer);
3028:
3029: {$IFDEF WIN32}
3030: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
  X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3031:
3032: {$ENDIF}
3033: function MakeIcon(ResID: PChar): TIcon;
3034: function MakeIconID(ResID: Word): TIcon;
3035: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3036: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3037: {$IFDEF WIN32}
3038: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3039: {$ENDIF}
3040: { Service routines }
3041: procedure NotImplemented;
3042: procedure ResourceNotFound(ResID: PChar);
3043: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3044: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3045: function PaletteColor(Color: TColor): Longint;
3046: function WidthOf(R: TRect): Integer;
3047: function HeightOf(R: TRect): Integer;
3048: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3049: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);

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3050: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3051: procedure Delay(MSecs: Longint);
3052: procedure CenterControl(Control: TControl);
3053: Function PaletteEntries( Palette : HPALETTE ) : Integer
3054: Function WindowClassName( Wnd : HWND ) : string
3055: Function ScreenWorkArea : TRect
3056: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3057: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3058: Procedure ActivateWindow( Wnd : HWND)
3059: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)
3060: Procedure CenterWindow( Wnd : HWND)
3061: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3062: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3063: Function DialogsToPixelsX( Dlgs : Word ) : Word
3064: Function DialogsToPixelsY( Dlgs : Word ) : Word
3065: Function PixelsToDialogsX( Pixs : Word ) : Word
3066: Function PixelsToDialogsY( Pixs : Word ) : Word
3067: {$IFDEF WIN32}
3068: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3069: function MakeVariant(const Values: array of Variant): Variant;
3070: {$ENDIF}
3071: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3072: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3073: function MsgDlg(const Msg: string; AType: TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3074: {$IFDEF CBUILDER}
3075: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3076: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3077: {$ELSE}
3078: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3079: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3080: {$ENDIF CBUILDER}
3081: function IsForegroundTask: Boolean;
3082: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3083: function GetAveCharSize(Canvas: TCanvas): TPoint;
3084: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3085: procedure FreeUnusedOle;
3086: procedure Beep;
3087: function GetWindowsVersionJ: string;
3088: function LoadDLL(const LibName: string): THandle;
3089: function RegisterServer(const ModuleName: string): Boolean;
3090: {$IFDEF WIN32}
3091: function IsLibrary: Boolean;
3092: {$ENDIF}
3093: { Gradient filling routine }
3094: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3095: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction:
TFillDirection; Colors: Byte);
3096: { String routines }
3097: function GetEnvVar(const VarName: string): string;
3098: function AnsiUpperFirstChar(const S: string): string;
3099: function StringToPChar(var S: string): PChar;
3100: function StrPAlloc(const S: string): PChar;
3101: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3102: function DropT(const S: string): string;
3103: { Memory routines }
3104: function AllocMemo(Size: Longint): Pointer;
3105: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3106: procedure FreeMemo(var fpBlock: Pointer);
3107: function GetMemoSize(fpBlock: Pointer): Longint;
3108: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3109: {$IFDEF COMPILER5_UP}
3110: procedure FreeAndNil(var Obj);
3111: {$ENDIF}
3112: // from PNGLoader
3113: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3114: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3115: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3116: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3117: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style :
TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3118: AddDelphiFunction('Function IsAnAllResult( const AModalResult : TModalResult ) : Boolean
3119: Function InitWndProc( HWindow : HWND; Message : Longint; WParam : Longint; LParam : Longint ) : Longint
3120: AddConstantN('CTL3D_ALL','LongWord').SetUInt( $FFFF);
3121: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment)
3122: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint ) : Longint
3123: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3124: Procedure SetImeMode( hWnd : HWND; Mode : TImeMode)
3125: Procedure SetImeName( Name : TImeName)
3126: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean ) : Boolean
3127: Function Imm32GetContext( hWnd : HWND ) : HIMC
3128: Function Imm32ReleaseContext( hWnd : HWND; hImc : HIMC ) : Boolean
3129: Function Imm32GetConversionStatus( hImc : HIMC; var Conversion, Sentence : longword ) : Boolean
3130: Function Imm32SetConversionStatus( hImc : HIMC; Conversion, Sentence : longword ) : Boolean
3131: Function Imm32SetOpenStatus( hImc : HIMC; fOpen : Boolean ) : Boolean
3132: // Function Imm32SetCompositionWindow( hImc : HIMC; lpCompForm : PCOMPOSITIONFORM ) : Boolean
3133: //Function Imm32SetCompositionFont( hImc : HIMC; lpLogFont : PLOGFONTA ) : Boolean
3134: Function Imm32GetCompositionString(hImc:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3135: Function Imm32IsIME( hK1 : longword ) : Boolean
3136: Function Imm32NotifyIME( hImc : HIMC; dwAction, dwIndex, dwValue:longword):Boolean

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3137: Procedure DragDone( Drop : Boolean)
3138:
3139:
3140: *****added from jvjvclutils
3141: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3142: function ReplaceComponentReference(This, NewReference: TComponent; var VarReference: TComponent): Boolean;
3143: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3144: function IsPositiveResult(Value: TModalResult): Boolean;
3145: function IsNegativeResult(Value: TModalResult): Boolean;
3146: function IsAbortResult(const Value: TModalResult): Boolean;
3147: function StripAllFromResult(const Value: TModalResult): TModalResult;
3148: // returns either BrightColor or DarkColor depending on the luminance of AColor
3149: // This function gives the same result (AFAIK) as the function used in Windows to
3150: // calculate the desktop icon text color based on the desktop background color
3151: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3152: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3153:
3154: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3155:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3156:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3157:   var LinkName: string; Scale: Integer = 100); overload;
3158: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3159:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3160:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3161:   var LinkName: string; Scale: Integer = 100); overload;
3162: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3163:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3164: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3165:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3166:   Scale: Integer = 100): string;
3167: function HTMLPlainText(const Text: string): string;
3168: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3169:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3170: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3171:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3172: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3173: function HTMLPrepareText(const Text: string): string;
3174:
3175: ***** uPSI_JvAppUtils;
3176: Function GetDefaultSection( Component : TComponent) : string
3177: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean)
3178: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string)
3179: Function GetDefaultIniName : string
3180: ///'OnGetDefaultIniName','TOnGetDefaultIniName').SetString();
3181: Function GetDefaultIniRegKey : string
3182: Function FindForm( FormClass : TFormClass) : TForm
3183: Function FindShowForm( FormClass : TFormClass; const Caption : string) : TForm
3184: Function ShowDialog( FormClass : TFormClass) : Boolean
3185: ///Function InstantiateForm( FormClass : TFormClass; var Reference) : TForm
3186: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean)
3187: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean)
3188: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile)
3189: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string)
3190: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string)
3191: Function GetUniqueFileNameInDir( const Path, FileNameMask : string) : string
3192: Function StrToIniStr( const Str : string) : string
3193: Function IniStrToStr( const Str : string) : string
3194: Function IniReadString( IniFile : TObjct; const Section, Ident, Default : string) : string
3195: Procedure IniWriteString( IniFile : TObjct; const Section, Ident, Value : string)
3196: Function IniReadInteger( IniFile : TObjct; const Section, Ident : string; Default : Longint) : Longint
3197: Procedure IniWriteInteger( IniFile : TObjct; const Section, Ident : string; Value : Longint)
3198: Function IniReadBool( IniFile : TObjct; const Section, Ident : string; Default : Boolean) : Boolean
3199: Procedure IniWriteBool( IniFile : TObjct; const Section, Ident : string; Value : Boolean)
3200: Procedure IniReadSections( IniFile : TObjct; Strings : TStrings)
3201: Procedure IniEraseSection( IniFile : TObjct; const Section : string)
3202: Procedure IniDeleteKey( IniFile : TObjct; const Section, Ident : string)
3203: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint)
3204: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint)
3205: Procedure AppTaskbarIcons( AppOnly : Boolean)
3206: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObjct; const Section : string)
3207: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObjct; const Section : string)
3208: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObjct)
3209: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObjct)
3210: ***** uPSI_JvDBUtils;
3211: Function CreateLocate( DataSet : TDataSet) : TJvLocateObject
3212: Function IsDataSetEmpty( DataSet : TDataSet) : Boolean
3213: Procedure RefreshQuery( Query : TDataSet)
3214: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean
3215: Function DataSetSectionName( DataSet : TDataSet) : string
3216: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObjct; const Section : string)
3217: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObjct;const Section:string;RestoreVisible:Bool)
3218: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant;
Options: TLocateOptions) : Boolean
3219: Procedure SaveFields( DataSet : TDataSet; IniFile : TIniFile)
3220: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIniFile; RestoreVisible : Boolean)
3221: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean)
3222: Function ConfirmDelete : Boolean
3223: Procedure ConfirmDataSetCancel( DataSet : TDataSet)
3224: Procedure CheckRequiredField( Field : TField)

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3225: Procedure CheckRequiredFields( const Fields : array of TField)
3226: Function DateToSQL( Value : TDateTime) : string
3227: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string) : string
3228: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string) : string
3229: Function FormatSQLNumericRange( const FieldName:string; LowVal, HighVal, LowEmpty,
    HighEmpty:Double; Inclusive:Bool):string
3230: Function StrMaskSQL( const Value : string) : string
3231: Function FormatSQLCondition( const FieldName, Operator, Val:string; FieldType:TFieldType; Exact:Bool):string
3232: Function FormatAnsiSQLCondition( const FieldName, Operator, Val:string; FieldType:TFieldType; Exact:Bool):string
3233: Procedure _DBError( const Msg : string)
3234: Const('TrueExpr','String').SetString( '0=0
3235: Const('sdfStandard16','String').SetString( '""mm'/'dd'/'yyyy'""
3236: Const('sdfStandard32','String').SetString( '""dd/mm/yyyy'""
3237: Const('sdfOracle','String').SetString( "TO_DATE('dd/mm/yyyy', 'DD/MM/YYYY')"
3238: Const('sdfInterbase','String').SetString( "CAST('mm'/'dd'/'yyyy' AS DATE)"
3239: Const('sdfMSSQL','String').SetString( "CONVERT(datetime, 'mm'/'dd'/'yyyy', 103)"
3240: AddTypeS('Largeint', 'Longint
3241: addTypeS('TIFException', '(ErNoError, erCannotImport, erInvalidType, ErInternalError, '+
3242: 'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3243: 'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3244: 'erVersionError, ErDivideByZero, ErMathError, erCouldNotCallProc, erOutOfRecordRange, '+
3245: 'erOutOfMemory,erException,erNullPointerException,erNullVariantErrorerInterfaceNotSupportedError);
3246: (*-----*)
3247: procedure SIRegister_JclIniFiles(CL: TPSPascalCompiler);
3248: begin
3249: Function JIniReadBool( const FileName, Section, Line : string) : Boolean
3250: Function JIniReadInteger( const FileName, Section, Line : string) : Integer
3251: Function JIniReadString( const FileName, Section, Line : string) : string
3252: Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3253: Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3254: Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3255: Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3256: Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3257: end;
3258:
3259: (* === compile-time registration functions === *)
3260: (*-----*)
3261: procedure SIRegister_JclDateTime(CL: TPSPascalCompiler);
3262: begin
3263: 'UnixTimeStart','LongInt').SetInt( 25569);
3264: Function JEncodeDate( const Year : Integer; Month, Day : Word) : TDateTime
3265: Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word);
3266: Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word);
3267: Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer);
3268: Function CenturyOfDate( const DateTime : TDateTime) : Integer
3269: Function CenturyBaseYear( const DateTime : TDateTime) : Integer
3270: Function DayOfDate( const DateTime : TDateTime) : Integer
3271: Function MonthOfDate( const DateTime : TDateTime) : Integer
3272: Function YearOfDate( const DateTime : TDateTime) : Integer
3273: Function JDayOfTheYear( const DateTime : TDateTime; var Year : Integer) : Integer;
3274: Function DayOfTheYear1( const DateTime : TDateTime) : Integer;
3275: Function DayOfTheYearToDateTime( const Year, Day : Integer) : TDateTime
3276: Function HourOfTime( const DateTime : TDateTime) : Integer
3277: Function MinuteOfTime( const DateTime : TDateTime) : Integer
3278: Function SecondOfTime( const DateTime : TDateTime) : Integer
3279: Function GetISOYearNumberOfDays( const Year : Word) : Word
3280: Function IsISOLongYear( const Year : Word) : Boolean;
3281: Function IsISOLongYear1( const DateTime : TDateTime) : Boolean;
3282: Function ISODayOfWeek( const DateTime : TDateTime) : Word
3283: Function JISOWeekNumber( DateTime : TDateTime; var YearOfWeekNumber, WeekDay : Integer) : Integer;
3284: Function ISOWeekNumber1( DateTime : TDateTime; var YearOfWeekNumber : Integer) : Integer;
3285: Function ISOWeekNumber2( DateTime : TDateTime) : Integer;
3286: Function ISOWeekToDateTime( const Year, Week, Day : Integer) : TDateTime
3287: Function JIsLeapYear( const Year : Integer) : Boolean;
3288: Function IsLeapYear1( const DateTime : TDateTime) : Boolean;
3289: Function JDaysInMonth( const DateTime : TDateTime) : Integer
3290: Function Make4DigitYear( Year, Pivot : Integer) : Integer
3291: Function JMakeYear4Digit( Year, WindowsillYear : Integer) : Integer
3292: Function JEasterSunday( const Year : Integer) : TDateTime // TDosDateTime, 'Integer
3293: Function JFormatDateTime( Form : string; DateTime : TDateTime) : string
3294: Function FATDatesEqual( const FileTime1, FileTime2 : Int64) : Boolean;
3295: Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime) : Boolean;
3296: Function HoursToMsecs( Hours : Integer) : Integer
3297: Function MinutesToMsecs( Minutes : Integer) : Integer
3298: Function SecondsToMsecs( Seconds : Integer) : Integer
3299: Function TimeOfDateTimeToSeconds( DateTime : TDateTime) : Integer
3300: Function TimeOfDateTimeToMsecs( DateTime : TDateTime) : Integer
3301: Function DateTimeToLocalDateTime( DateTime : TDateTime) : TDateTime
3302: Function LocalDateTimeToDateTime( DateTime : TDateTime) : TDateTime
3303: Function DateTimeToDosDateTime( const DateTime : TDateTime) : TDosDateTime
3304: Function JDateTimeToFileTime( DateTime : TDateTime) : TFileTime
3305: Function JDateTimeToSystemTime( DateTime : TDateTime) : TSystemTime;
3306: Procedure DateTimeToSystemTime1( DateTime : TDateTime; var SysTime : TSystemTime);
3307: Function LocalDateTimeToFileTime( DateTime : TDateTime) : FileTime
3308: Function DosDateTimeToDateTime( const DosTime : TDosDateTime) : TDateTime
3309: Function JDosDateTimeToFileTime( DosTime : TDosDateTime) : TFileTime;
3310: Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime);
3311: Function DosDateTimeToSystemTime( const DosTime : TDosDateTime) : TSystemTime
3312: Function DosDateTimeToStr( DateTime : Integer) : string

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3313: Function JFileTimeToDateTime( const FileTime : TFileTime) : TDateTime
3314: Function FileTimeToLocalDateTime( const FileTime : TFileTime) : TDateTime
3315: Function JFileTimeToDosDateTime( const FileTime : TFileTime) : TDosDateTime;
3316: Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word);
3317: Function JFileTimeToSystemTime( const FileTime : TFileTime) : TSystemTime;
3318: Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime);
3319: Function FileTimeToStr( const FileTime : TFileTime) : string
3320: Function SystemTimeToDosDateTime( const SystemTime : TSystemTime) : TDosDateTime
3321: Function JSystemTimeToFileTime( const SystemTime : TSystemTime) : TFileTime;
3322: Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime);
3323: Function SystemTimeToStr( const SystemTime : TSystemTime) : string
3324: Function CreationDateTimeOfFile( const Sr : TSearchRec) : TDateTime
3325: Function LastAccessDateTimeOfFile( const Sr : TSearchRec) : TDateTime
3326: Function LastWriteDateTimeOfFile( const Sr : TSearchRec) : TDateTime
3327: TJclUnixTime32, 'Longword
3328: Function JDateTimeToUnixTime( DateTime : TDateTime) : TJclUnixTime32
3329: Function JUnixTimeToDateTime( const UnixTime : TJclUnixTime32) : TDateTime
3330: Function FileTimeToUnixTime( const AValue : TFileTime) : TJclUnixTime32
3331: Function UnixTimeToFileTime( const AValue : TJclUnixTime32) : TFileTime
3332: Function JNullStamp : TTimeStamp
3333: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Int64
3334: Function JEqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Boolean
3335: Function JIsNullTimeStamp( const Stamp : TTimeStamp) : Boolean
3336: Function TimeStampDOW( const Stamp : TTimeStamp) : Integer
3337: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3338: Function FirstWeekDay1( const Year, Month : Integer) : Integer;
3339: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3340: Function LastWeekDay1( const Year, Month : Integer) : Integer;
3341: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer) : Integer
3342: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3343: Function FirstWeekendDay1( const Year, Month : Integer) : Integer;
3344: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer) : Integer;
3345: Function LastWeekendDay1( const Year, Month : Integer) : Integer;
3346: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer) : Integer
3347: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer) : Integer
3348: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer) : Integer
3349: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer) : Integer
3350: FindClass('TOBJECT'),'EJclDateTimeError
3351: end;
3352:
3353: procedure SIRegister_JclMiscel2(CL: TPSPascalCompiler);
3354: begin
3355:   Function SetDisplayResolution( const XRes, YRes : DWORD) : Longint
3356:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string) : Boolean
3357:   Function WinExec32( const Cmd : string; const CmdShow : Integer) : Boolean
3358:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer) : Cardinal
3359:   Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3360:   TJclKillLevel, '( klNormal, klNoSignal, klTimeout )
3361:   Function ExitWindows( ExitCode : Cardinal) : Boolean
3362:   Function LogOffOS( KillLevel : TJclKillLevel) : Boolean
3363:   Function PowerOffOS( KillLevel : TJclKillLevel) : Boolean
3364:   Function ShutDownOS( KillLevel : TJclKillLevel) : Boolean
3365:   Function RebootOS( KillLevel : TJclKillLevel) : Boolean
3366:   Function HibernateOS( Force, DisableWakeEvents : Boolean) : Boolean
3367:   Function SuspendOS( Force, DisableWakeEvents : Boolean) : Boolean
3368:   Function ShutDownDialog( const DialogMessage:string;Timeout:DWORD;Force,Reboot:Boolean):Boolean;;
3369:   Function ShutDownDialog1(const MachineName,DialogMessage:string;Timeout:DWORD;Force,Reboot:Bool):Bool;
3370:   Function AbortShutDown : Boolean;
3371:   Function AbortShutDown1( const MachineName : string) : Boolean;
3372:   TJclAllowedPowerOperation, '( apoHibernate, apoShutDown, apoSuspend )
3373:   TJclAllowedPowerOperations, 'set of TJclAllowedPowerOperation
3374:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3375:   FindClass('TOBJECT'),'EJclCreateProcessError
3376:   Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
3377:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const
Environment:PChar);
3378:   // with Add(EJclCreateProcessError) do
3379:   end;
3380:
3381:
3382: procedure SIRegister_JclAnsiStrings(CL: TPSPascalCompiler);
3383: begin
3384:   //'AnsiSigns','Set').SetSet(['-', '+']);
3385:   'C1_UPPER','LongWord').SetUInt( $0001);
3386:   'C1_LOWER','LongWord').SetUInt( $0002);
3387:   'C1_DIGIT','LongWord').SetUInt( $0004);
3388:   'C1_SPACE','LongWord').SetUInt( $0008);
3389:   'C1_PUNCT','LongWord').SetUInt( $0010);
3390:   'C1_CNTRL','LongWord').SetUInt( $0020);
3391:   'C1_BLANK','LongWord').SetUInt( $0040);
3392:   'C1_XDIGIT','LongWord').SetUInt( $0080);
3393:   'C1_ALPHA','LongWord').SetUInt( $0100);
3394:   AnsiChar, 'Char
3395:   Function StrIsAlpha( const S : AnsiString) : Boolean
3396:   Function StrIsAlphaNum( const S : AnsiString) : Boolean
3397:   Function StrIsAlphaNumUnderscore( const S : AnsiString) : Boolean
3398:   Function StrContainsChars(const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean) : Boolean
3399:   Function StrConsistsOfNumberChars( const S : AnsiString) : Boolean
3400:   Function StrIsDigit( const S : AnsiString) : Boolean

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

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

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3576: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3577: Function DataSetPositionStr( DataSet : TDataSet ) : string
3578: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean)
3579: Function CurrentRecordDeleted( DataSet : TBDEDataSet ) : Boolean
3580: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3581: Function IsBookmarkStable( DataSet : TBDEDataSet ) : Boolean
3582: Procedure SetIndex( Table : TTable; const IndexFieldNames : string)
3583: Procedure RestoreIndex( Table : TTable)
3584: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const)
3585: Procedure PackTable( Table : TTable)
3586: Procedure ReindexTable( Table : TTable)
3587: Procedure BdeFlushBuffers
3588: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3589: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string)
3590: Procedure DbNotSupported
3591: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint)
3592: Procedure ExportDataSetEx( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter:Char;MaxRecordCount:Longint);
3593: Procedure
  ImportDataSet(Source:TBDEDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3594: Procedure InitRSRUN(Database: TDatabase;const ConName:string; ConType:Integer;const ConServer:string);
3595: *****uPSI_JvDateUtil;
3596: function CurrentYear: Word;
3597: function IsLeapYear(AYear: Integer): Boolean;
3598: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3599: function FirstDayOfPrevMonth: TDateTime;
3600: function LastDayOfPrevMonth: TDateTime;
3601: function FirstDayOfNextMonth: TDateTime;
3602: function ExtractDay(ADate: TDateTime): Word;
3603: function ExtractMonth(ADate: TDateTime): Word;
3604: function ExtractYear(ADate: TDateTime): Word;
3605: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3606: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3607: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3608: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3609: function ValidDate(ADate: TDateTime): Boolean;
3610: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
3611: function MonthsBetween(Date1, Date2: TDateTime): Double;
3612: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
3613: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
3614: function DaysBetween(Date1, Date2: TDateTime): Longint;
3615: { The same as previous but if Date2 < Date1 result = 0 }
3616: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3617: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3618: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3619: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3620: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3621: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3622: { String to date conversions }
3623: function GetDateOrder(const DateFormat: string): TDateOrder;
3624: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3625: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3626: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3627: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3628: function DefDateFormat(FourDigitYear: Boolean): string;
3629: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3630: -----
3631: ***** JvUtils;*****
3632: { GetWordOnPos returns Word from string, S, on the cursor position, P }
3633: function GetWordOnPos(const S: string; const P: Integer): string;
3634: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3635: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3636: { SubStr returns substring from string, S, separated with Separator string }
3637: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3638: { SubStrEnd same to previous function but Index numerated from the end of string }
3639: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3640: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3641: function SubWord(P: PChar; var P2: PChar): string;
3642: { NumberByWord returns the text representation of
  the number, N, in normal russian language. Was typed from Monitor magazine }
3644: function NumberByWord(const N: Longint): string;
3645: // function CurrencyByWord(Value : Currency) : string; GetLineByPos returns Line number, there
3646: //the symbol Pos is pointed. Lines separated with #13 symbol }
3647: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3648: { GetXYByPos is same to previous function, but returns X position in line too }
3649: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3650: { ReplaceString searches for all substrings, OldPattern, in a string, S, and replaces them with NewPattern }
3651: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3652: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3653: function ConcatSep(const S, S2, Separator: string): string;
3654: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3655: function ConcatLeftSep(const S, S2, Separator: string): string;
3656: { MinimizeString truncs long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3657: function MinimizeString(const S: string; const MaxLen: Integer): string;
3658: { Next 4 function for russian chars transliterating.
  This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3660: procedure Dos2Win(var S: string);
3661: procedure Win2Dos(var S: string);

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3662: function Dos2WinRes(const S: string): string;
3663: function Win2DosRes(const S: string): string;
3664: function Win2Koi(const S: string): string;
3665: { Spaces returns string consists on N space chars }
3666: function Spaces(const N: Integer): string;
3667: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3668: function AddSpaces(const S: string; const N: Integer): string;
3669: { function LastDate for russian users only } { returns date relative to current date: ' ' }
3670: function LastDate(const Dat: TDateTime): string;
3671: { CurrencyToStr format currency, Cur, using ffCurrency float format}
3672: function CurrencyToStr(const Cur: currency): string;
3673: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3674: function Cmp(const S1, S2: string): Boolean;
3675: { StringCat add S2 string to S1 and returns this string }
3676: function StringCat(var S1: string; S2: string): string;
3677: { HasChar returns True, if Char, Ch, contains in string, S }
3678: function HasChar(const Ch: Char; const S: string): Boolean;
3679: function HasAnyChar(const Chars: string; const S: string): Boolean;
3680: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3681: function CountOfChar(const Ch: Char; const S: string): Integer;
3682: function DefStr(const S: string; Default: string): string;
3683: {**** files routines}
3684: { GetWinDir returns Windows folder name }
3685: function GetWinDir: TFileName;
3686: function GetSysDir: string;
3687: { GetTempDir returns Windows temporary folder name }
3688: function GetTempDir: string;
3689: { GenTempFileName returns temporary file name on drive, there FileName is placed }
3690: function GenTempFileName(FileName: string): string;
3691: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3692: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3693: { ClearDir clears folder Dir }
3694: function ClearDir(const Dir: string): Boolean;
3695: { DeleteDir clears and then delete folder Dir }
3696: function DeleteDir(const Dir: string): Boolean;
3697: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3698: function FileEquMask(FileName, Mask: TFileName): Boolean;
3699: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3700:   Masks must be separated with comma (','')}
3701: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3702: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3703: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3704: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3705: { FileGetInfo fills SearchRec record for specified file attributes}
3706: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3707: { HasSubFolder returns True, if folder APath contains other folders }
3708: function HasSubFolder(APath: TFileName): Boolean;
3709: { IsEmptyFolder returns True, if there are no files or folders in given folder, APath}
3710: function IsEmptyFolder(APath: TFileName): Boolean;
3711: { AddSlash add slash Char to Dir parameter, if needed }
3712: procedure AddSlash(var Dir: TFileName);
3713: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3714: function AddSlash2(const Dir: TFileName): string;
3715: { AddPath returns FileName with Path, if FileName not contain any path }
3716: function AddPath(const FileName, Path: TFileName): TFileName;
3717: function AddPaths(const PathList, Path: string): string;
3718: function ParentPath(const Path: TFileName): TFileName;
3719: function FindInPath(const FileName, PathList: string): TFileName;
3720: function FindInPaths(const fileName,paths: String): String;
3721: {$IFDEF BCB1}
3722: { BrowseForFolder displays Browse For Folder dialog }
3723: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3724: {$ENDIF BCB1}
3725: function BrowseForFolder(const ATitle: string; AllowCreate: Boolean; var ADirectory: string;
  AHelpContext: THelpContext): Boolean
3726: function BrowseForComputer(const ATitle: string; AllowCreate: Boolean; var ADirectory: string;
  AHelpContext: THelpContext): Boolean
3727: function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3728: function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3729:
3730: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3731: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3732: { HasParam returns True, if program running with specified parameter, Param }
3733: function HasParam(const Param: string): Boolean;
3734: function HasSwitch(const Param: string): Boolean;
3735: function Switch(const Param: string): string;
3736: { ExePath returns ExtractFilePath(ParamStr(0)) }
3737: function ExePath: TFileName;
3738: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3739: function FileTimeToDateTime(const FT: TFileTime): TDateTime;
3740: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3741: {**** Graphic routines }
3742: { TTFontSelected returns True, if True Type font is selected in specified device context }
3743: function TTFontSelected(const DC: HDC): Boolean;
3744: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3745: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3746: {**** Windows routines }
3747: { SetWindowTop put window to top without recreating window }
3748: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);

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3749: {**** other routines }
3750: { KeyPressed returns True, if Key VK is now pressed }
3751: function KeyPressed(VK: Integer): Boolean;
3752: procedure SwapInt(var Int1, Int2: Integer);
3753: function IntPower(Base, Exponent: Integer): Integer;
3754: function ChangeTopException(E: TObject): TObject;
3755: function StrToBool(const S: string): Boolean;
3756: {$IFDEF COMPILER3_UP}
3757: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3758:   Length of MaxLen bytes. The compare operation is controlled by the
3759:   current Windows locale. The return value is the same as for CompareStr. }
3760: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3761: function AnsiStrIComp(S1, S2: PChar): Integer;
3762: {$ENDIF}
3763: function Var2Type(V: Variant; const VarType: Integer): Variant;
3764: function VarToInt(V: Variant): Integer;
3765: function VarToFloat(V: Variant): Double;
3766: { following functions are not documented because they are don't work properly , so don't use them }
3767: function ReplaceSokrl(S: string; const Word, Frase: string): string;
3768: { ReplaceSokrl is full equal to ReplaceString function - only for compatibility - don't use }
3769: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3770: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3771: function GetParameter: string;
3772: function GetLongFileName(FileName: string): string;
3773: {* from FileCtrl}
3774: function DirectoryExists(const Name: string): Boolean;
3775: procedure ForceDirectories(Dir: string);
3776: {# from FileCtrl}
3777: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3778: function GetComputerID: string;
3779: function GetComputerName: string;
3780: {**** string routines }
3781: { ReplaceAllSokr searches for all substrings, Words, in a string, S, and replaces them with Frases with the
   same Index. Also see RAUtilsW.ReplaceSokrl function }
3782: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3783: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3784:   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 }
3785: function ReplaceSokr(S: string; PosBeg, Len: Integer; Words, Frases: TStrings; var NewSelStart: Integer): string;
3786: { CountOfLines calculates the lines count in a string, each line separated from another with CrLf sequence }
3787: function CountOfLines(const S: string): Integer;
3788: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3789: procedure DeleteEmptyLines(Ss: TStrings);
3790: { SQLAddWhere adds or modifies existing where-statement, where, to the strings, SQL.
3791:   Note: If strings SQL already contains where-statement, it must be started on begining of any line }
3792: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3793: {**** files routines - }
3794: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3795:   Resource can be compressed using MS Compress program}
3796: function ResSaveToFile(const Typ, Name: string; const Compressed: Boolean; const FileName: string): Boolean;
3797: function ResSaveToFileEx(Inst: HINST; Typ, Name: PChar; const Compressed: Boolean; const FileName: string): Boolean;
3798: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3799: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3800: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3801: { IniReadSection read section, Section, from ini-file,
3802:   IniFileName, into strings, Ss. This function reads ALL strings from specified section.
3803:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
3804: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3805: { LoadTextFile load text file, FileName, into string }
3806: function LoadTextFile(const FileName: TFileName): string;
3807: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3808: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3809: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3810: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3811: {$IFDEF COMPILER3_UP}
3812: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3813: function TargetFileName(const FileName: TFileName): TFileName;
3814: { return filename ShortCut linked to }
3815: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3816: {$ENDIF COMPILER3_UP}
3817: {**** Graphic routines - }
3818: { LoadIcoToImage loads two icons from resource named NameRes, into two image lists ALarge and ASmall}
3819: procedure LoadIcoToImage(ALarge, ASmall: TImageList; const NameRes: string);
3820: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3821: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3822: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3823: function RATextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
3824: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3825: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3826: { Cinema draws some visual effect }
3827: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3828: { Roughed fills rect with special 3D pattern }
3829: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3830: { 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 }
3831: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3832: { TextWidth calculate text with for writing using standard desktop font }
3833: function TextWidth(AStr: string): Integer;
3834: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }

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3835: function DefineCursor(Identifier: PChar): TCursor;
3836: {**** other routines - }
3837: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3838: function FindFormByClass(FormClass: TFormClass): TForm;
3839: function FindFormByClassName(FormClassName: string): TForm;
3840: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
3841:   having Tag property value, equal to Tag parameter }
3842: function FindByTag(WinControl: TWinControl; ComponentClass: TComponentClass; const Tag: Integer): TComponent;
3843: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3844: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3845: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3846: function RBTAG(Parent: TWinControl): Integer;
3847: { AppMinimized returns True, if Application is minimized }
3848: function AppMinimized: Boolean;
3849: { MessageBox is Application.MessageBox with string (not PChar) parameters.
3850:   if Caption parameter = '', it replaced with Application.Title }
3851: function MessageBoxJ(const Msg: string; Caption: string; const Flags: Integer): Integer;
3852: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
3853:   Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3854: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
3855:   Buttons: TMsgDlgButtons; DefButton: TMsgDlgBtn; HelpContext: Integer; Control: TWinControl): Integer;
3856: { Delay stop program execution to MSec msec }
3857: procedure Delay(MSec: Longword);
3858: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3859: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3860: procedure EnableMenuItems(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3861: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3862: function PanelBorder(Panel: TCustomPanel): Integer;
3863: function Pixels(Control: TControl; APixels: Integer): Integer;
3864: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3865: procedure Error(const Msg: string);
3866: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3867:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3868: {ex. Text parameter: 'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>' }
3869: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3870:   const HideSelColor: Boolean): string;
3871: function ItemHtWidth(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3872:   const HideSelColor: Boolean): Integer;
3873: function ItemHtPlain(const Text: string): string;
3874: { ClearList - clears list of TObject }
3875: procedure ClearList(List: TList);
3876: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
3877: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
3878: { RTTI support }
3879: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3880: function GetPropStr(Obj: TObject; const PropName: string): string;
3881: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3882: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3883: procedure PrepareIniSection(SS: TStrings);
3884: { following functions are not documented because they are don't work properly, so don't use them }
3885: {$IFDEF COMPILER2}
3886: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3887: {$ENDIF}
3888:
3889: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3890: begin
3891:   Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3892:   Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3893:   Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y: Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
3894:   Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3895:   Procedure BoxMoveSelected( List : TWinControl; Items : TStrings)
3896:   Procedure BoxSetItem( List : TWinControl; Index : Integer)
3897:   Function BoxGetFirstSelection( List : TWinControl ) : Integer
3898:   Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3899: end;
3900:
3901: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3902: begin
3903:   Const('MaxInitStrNum','LongInt').SetInt( 9);
3904: Function JvAnsiStrSplit( const InString: AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
: array of AnsiString; MaxSplit : Integer ) : Integer
3905: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
string; MaxSplit : Integer ) : Integer
3906: Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
QuoteChar:AnsiChar;OutStrs:TStrings):Integer;
3907: Function JvAnsiStrStrip( S : AnsiString) : AnsiString
3908: Function JvStrStrip( S : string ) : string
3909: Function GetString( var Source : AnsiString; const Separator : AnsiString) : AnsiString
3910: Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3911: Function BuildPathName( const PathName, FileName : AnsiString) : AnsiString
3912: Function StrEatWhiteSpace( const S : string) : string
3913: Function HexToAscii( const S : AnsiString) : AnsiString
3914: Function AsciiToHex( const S : AnsiString) : AnsiString
3915: Function StripQuotes( const S1 : AnsiString) : AnsiString
3916: Function ValidNumericLiteral( S1 : PAnsiChar ) : Boolean
3917: Function ValidIntLiteral( S1 : PAnsiChar ) : Boolean
3918: Function ValidHexLiteral( S1 : PAnsiChar ) : Boolean
3919: Function HexPCharToInt( S1 : PAnsiChar ) : Integer

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3920: Function ValidStringLiteral( S1 : PAnsiChar ) : Boolean
3921: Function StripPCharQuotes( S1 : PAnsiChar ) : AnsiString
3922: Function JvValidIdentifierAnsi( S1 : PAnsiChar ) : Boolean
3923: Function JvValidIdentifier( S1 : String ) : Boolean
3924: Function JvEndChar( X : AnsiChar ) : Boolean
3925: Procedure JvGetToken( S1, S2 : PAnsiChar )
3926: Function IsExpressionKeyword( S1 : PAnsiChar ) : Boolean
3927: Function IsKeyword( S1 : PAnsiChar ) : Boolean
3928: Function JvValidVarReference( S1 : PAnsiChar ) : Boolean
3929: Function GetParenthesis( S1, S2 : PAnsiChar ) : Boolean
3930: Procedure JvGetVarReference( S1, S2, SIdx : PAnsiChar )
3931: Procedure JvEatWhitespaceChars( S1 : PAnsiChar );
3932: Procedure JvEatWhitespaceChars1( S1 : PWideChar );
3933: Function GetTokenCount : Integer
3934: Procedure ResetTokenCount
3935: end;
3936:
3937: procedure SIRegister_JvDBQueryParamsForm(CL: TPSPascalCompiler);
3938: begin
3939:   SIRegister_TJvQueryParamsDialog(CL);
3940:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
3941:   end;
3942:
3943: ***** JvStrUtil / JvStrUtils;*****
3944: function FindNotBlankCharPos(const S: string): Integer;
3945: function AnsiChangeCase(const S: string): string;
3946: function GetWordOnPos(const S: string; const P: Integer): string;
3947: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3948: function Cmp(const S1, S2: string): Boolean;
3949: { Spaces returns string consists on N space chars }
3950: function Spaces(const N: Integer): string;
3951: { HasChar returns True, if char, Ch, contains in string, S }
3952: function HasChar(const Ch: Char; const S: string): Boolean;
3953: function HasAnyChar(const Chars: string; const S: string): Boolean;
3954: { SubStr returns substring from string, S, separated with Separator string }
3955: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3956: { SubStrEnd same to previous function but Index numerated from the end of string }
3957: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3958: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
3959: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3960: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3961: { GetXYByPos is same to previous function, but returns X position in line too }
3962: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3963: { AddSlash returns string with added slash char to Dir parameter, if needed }
3964: function AddSlash2(const Dir: TFileName): string;
3965: { AddPath returns FileName with Path, if FileName not contain any path }
3966: function AddPath(const FileName, Path: TFileName): TFileName;
3967: { ExePath returns ExtractFilePath(ParamStr(0)) }
3968: function ExePath: TFileName;
3969: function LoadTextFile(const FileName: TFileName): string;
3970: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3971: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3972: function ConcatSep(const S, S2, Separator: string): string;
3973: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3974: function FileEquMask(FileName, Mask: TFileName): Boolean;
3975: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3976:   Masks must be separated with comma (',' ) }
3977: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3978: function StringEndsWith(const Str, SubStr: string): Boolean;
3979: function ExtractFilePath2(const FileName: string): string;
3980: function StrToOem(const AnsiStr: string): string;
3981: { StrToOem translates a string from the Windows character set into the OEM character set. }
3982: function OemToAnsiStr(const OemStr: string): string;
3983: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
3984: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
3985: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
3986: function ReplaceStr(const S, Srch, Replace: string): string;
3987: { Returns string with every occurrence of Srch string replaced with Replace string. }
3988: function DelSpace(const S: string): string;
3989: { DelSpace return a string with all white spaces removed. }
3990: function DelChars(const S: string; Chr: Char): string;
3991: { DelChars return a string with all Chr characters removed. }
3992: function DelBSpace(const S: string): string;
3993: { DelBSpace trims leading spaces from the given string. }
3994: function DelESpace(const S: string): string;
3995: { DelESpace trims trailing spaces from the given string. }
3996: function DelRSpace(const S: string): string;
3997: { DelRSpace trims leading and trailing spaces from the given string. }
3998: function DelSpace1(const S: string): string;
3999: { DelSpace1 return a string with all non-single white spaces removed. }
4000: function Tab2Space(const S: string; Numb: Byte): string;
4001: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4002: function NPos(const C: string; S: string; N: Integer): Integer;
4003: { NPos searches for a N-th position of substring C in a given string. }
4004: function MakeStr(C: Char; N: Integer): string;
4005: function MS(C: Char; N: Integer): string;
4006: { MakeStr return a string of length N filled with character C. }
4007: function AddChar(C: Char; const S: string; N: Integer): string;
4008: { AddChar return a string left-padded to length N with characters C. }

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4009: function AddCharR(C: Char; const S: string; N: Integer): string;
4010: { AddCharR return a string right-padded to length N with characters C. }
4011: function LeftStr(const S: string; N: Integer): string;
4012: { LeftStr return a string right-padded to length N with blanks. }
4013: function RightStr(const S: string; N: Integer): string;
4014: { RightStr return a string left-padded to length N with blanks. }
4015: function CenterStr(const S: string; Len: Integer): string;
4016: { CenterStr centers the characters in the string based upon the Len specified. }
4017: function CompStr(const S1, S2: string): Integer;
4018: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4019: function CompText(const S1, S2: string): Integer;
4020: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4021: function Copy2Symb(const S: string; Symb: Char): string;
4022: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4023: function Copy2SymbDel(var S: string; Symb: Char): string;
4024: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4025: function Copy2Space(const S: string): string;
4026: { Copy2Symb returns a substring of a string S from beginning to first white space. }
4027: function Copy2SpaceDel(var S: string): string;
4028: { Copy2SpaceDel returns a substring of a string S from beginning to first
4029:   white space and removes this substring from S. }
4030: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4031: { Returns string, with the first letter of each word in uppercase,
4032:   all other letters in lowercase. Words are delimited by WordDelims. }
4033: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4034: { WordCount given a set of word delimiters, returns number of words in S. }
4035: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4036: { Given a set of word delimiters, returns start position of N'th word in S. }
4037: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4038: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TCharSet; var Pos: Integer): string;
4039: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4040: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4041:   delimiters, return the N'th word in S. }
4042: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4043: { ExtractSubstr given set of word delimiters, returns the substring from S, that started from position Pos. }
4044: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4045: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4046: function QuotedString(const S: string; Quote: Char): string;
4047: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4048: function ExtractQuotedString(const S: string; Quote: Char): string;
4049: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string,
4050:   and reduces pairs of Quote characters within the quoted string to a single character. }
4051: function FindPart(const HelpWilds, InputStr: string): Integer;
4052: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4053: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4054: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4055: function XorString(const Key, Src: ShortString): ShortString;
4056: function XorEncode(const Key, Source: string): string;
4057: function XorDecode(const Key, Source: string): string;
4058: { ** Command line routines ** }
4059: {$IFDEF COMPILER4_UP}
4060: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet; IgnoreCase: Boolean): Boolean;
4061: {$ENDIF}
4062: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4063: { ** Numeric string handling routines ** }
4064: function Numb2USA(const S: string): string;
4065: { Numb2USA converts numeric string S to USA-format. }
4066: function Dec2Hex(N: Longint; A: Byte): string;
4067: function D2H(N: Longint; A: Byte): string;
4068: { Dec2Hex converts the given value to a hexadecimal string representation
4069:   with the minimum number of digits (A) specified. }
4070: function Hex2Dec(const S: string): Longint;
4071: function H2D(const S: string): Longint;
4072: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4073: function Dec2Numb(N: Longint; A, B: Byte): string;
4074: { Dec2Numb converts the given value to a string representation with the
4075:   base equal to B and with the minimum number of digits (A) specified. }
4076: function Numb2Dec(S: string; B: Byte): Longint;
4077: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4078: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4079: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4080: function IntToRoman(Value: Longint): string;
4081: { IntToRoman converts the given value to a roman numeric string representation. }
4082: function RomanToInt(const S: string): Longint;
4083: { RomanToInt converts the given string to an integer value. If the string
4084:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4085: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4086: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4087: ***** JvFileUtil *****
4088: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4089: procedure CopyFileEx(const FileName, DestName: string; OverwriteReadOnly, ShellDialog: Boolean; ProgressControl:
  TControl);
4090: procedure MoveFile(const FileName, DestName: TFileName);
4091: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4092: {$IFDEF COMPILER4_UP}
4093: function GetFileSize(const FileName: string): Int64;
4094: {$ELSE}
4095: function GetFileSize(const FileName: string): Longint;
4096: {$ENDIF}

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4097: function FileDateTime(const FileName: string): TDateTime;
4098: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4099: function DeleteFiles(const FileMask: string): Boolean;
4100: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4101: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4102: function NormalDir(const DirName: string): string;
4103: function RemoveBackSlash(const DirName: string): string;
4104: function ValidFileName(const FileName: string): Boolean;
4105: function DirExists(Name: string): Boolean;
4106: procedure ForceDirectories(Dir: string);
4107: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4108: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4109: {$IFDEF COMPILER4_UP}
4110: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4111: {$ENDIF}
4112: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4113: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4114: {$IFDEF COMPILER4_UP}
4115: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4116: {$ENDIF}
4117: function GetTempDir: string;
4118: function GetWindowsDir: string;
4119: function GetSystemDir: string;
4120: function BrowseDirectory(var AFolderName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4121: {$IFDEF WIN32}
4122: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4123: function ShortToLongFileName(const ShortName: string): string;
4124: function ShortToLongPath(const ShortName: string): string;
4125: function LongToShortFileName(const LongName: string): string;
4126: function LongToShortPath(const LongName: string): string;
4127: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4128: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4129: {$ENDIF WIN32}
4130: {$IFDEF COMPILER3_UP}
4131: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4132: {$ENDIF}
4133: function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm
4134: function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl
4135: function CreatePopupCalculator( AOwner : TComponent ) : TWinControl
4136: procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean)
4137:
4138: //*****procedure SIRegister_VarHlpr(CL: TPSPascalCompiler);
4139: procedure VariantClear( var V : Variant)
4140: procedure VariantArrayRedim( var V : Variant; High : Integer)
4141: procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
4142: procedure VariantCpy( const src : Variant; var dst : Variant)
4143: procedure VariantAdd( const src : Variant; var dst : Variant)
4144: procedure VariantSub( const src : Variant; var dst : Variant)
4145: procedure VariantMul( const src : Variant; var dst : Variant)
4146: procedure VariantDiv( const src : Variant; var dst : Variant)
4147: procedure VariantMod( const src : Variant; var dst : Variant)
4148: procedure VariantAnd( const src : Variant; var dst : Variant)
4149: procedure VariantOr( const src : Variant; var dst : Variant)
4150: procedure VariantXor( const src : Variant; var dst : Variant)
4151: procedure VariantShl( const src : Variant; var dst : Variant)
4152: procedure VariantShr( const src : Variant; var dst : Variant)
4153: function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant
4154: function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant
4155: function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant
4156: function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant
4157: function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant
4158: function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant
4159: function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant
4160: function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant
4161: function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant
4162: function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant
4163: function VariantNot( const V1 : Variant ) : Variant
4164: function VariantNeg( const V1 : Variant ) : Variant
4165: function VariantGetElement( const V : Variant; i1 : integer ) : Variant;
4166: function VariantGetElement1( const V : Variant; i1, i2 : integer ) : Variant;
4167: function VariantGetElement2( const V : Variant; i1, i2, i3 : integer ) : Variant;
4168: function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer ) : Variant;
4169: function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer ) : Variant;
4170: procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer);
4171: procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer);
4172: procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer);
4173: procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer);
4174: procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer);
4175: end;
4176:
4177: *****unit uPSI_JvgUtils;*****
4178: function IsEven(I: Integer): Boolean;
4179: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4180: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4181: procedure SwapInt(var I1, I2: Integer);
4182: function Spaces(Count: Integer): string;
4183: function DupStr(const Str: string; Count: Integer): string;
4184: function DupChar(C: Char; Count: Integer): string;
4185: procedure Msg(const AMsg: string);

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4186: function RectW(R: TRect): Integer;
4187: function RectH(R: TRect): Integer;
4188: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4189: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4190: function IsItAFilledBitmap(Bmp: TBitmap): Boolean;
4191: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4192:   HAlign: TglHorAlign; VAlign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4193: procedure DrawTextInRect(DC: HDC; R: TRect; const Text: string; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4194: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4195:   Style: TglTextStyle; ADelinedated, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor:
  TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4196: procedure DrawBox(DC: HDC; var R: TRect; Style: TglBoxStyle; BackgrColor: Longint; ATransparent: Boolean);
4197: function DrawBoxEx(DC: HDC; ARect: TRect; Borders: TglSides;
4198:   BevelInner, BevelOuter: TPanelBevel; Bold: Boolean; BackgrColor: Longint; ATransparent: Boolean): TRect;
4199: procedure GradientBox(DC: HDC; R: TRect; Gradient: TJvgGradient; PenStyle, PenWidth: Integer);
4200: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4201: procedure DrawBitmapExt(DC: HDC; { DC - background & result }
4202:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; {...X,Y _in_ rect}
4203:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4204:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4205: procedure CreateBitmapExt(DC: HDC; { DC - background & result }
4206:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; {...X,Y _in_ rect}
4207:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4208:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4209: procedure BringParentWindowToTop(Wnd: TWinControl);
4210: function GetParentForm(Control: TControl): TForm;
4211: procedure GetWindowImageFrom(Control: TWinControl; X, Y: Integer; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC)
4212: procedure GetWindowImage(Control: TWinControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4213: procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4214: function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4215: function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4216: procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4217: function CalcMathString(AExpression: string): Single;
4218: function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4219: function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4220: function GetTransparentColor(Bitmap: TBitmap; AutoTrColor: TglAutoTransparentColor): TColor;
4221: procedure TypeStringOnKeyboard(const S: string);
4222: function NextStringGridCell( Grid: TStringGrid ) : Boolean;
4223: procedure DrawTextExtAligned(Canvas: TCanvas; const
  Text: string; R: TRect; Alignment: TglAlignment; WordWrap: Boolean);
4224: procedure LoadComponentFromTextFile(Component: TComponent; const FileName: string);
4225: procedure SaveComponentToTextFile(Component: TComponent; const FileName: string);
4226: function ComponentToString(Component: TComponent): string;
4227: procedure StringToComponent(Component: TComponent; const Value: string);
4228: function PlayWaveResource(const ResName: string): Boolean;
4229: function UserName: string;
4230: function ComputerName: string;
4231: function CreateIniFileName: string;
4232: function ExpandString(const Str: string; Len: Integer): string;
4233: function Transliterate(const Str: string; RusToLat: Boolean): string;
4234: function IsSmallFonts: Boolean;
4235: function SystemColorDepth: Integer;
4236: function GetFileTypeJ(const FileName: string): TglFileType;
4237: function GetFileType( hFile : THandle ) : DWORD';
4238: function FindControlAtPt(Control: TWinControl; Pt: TPoint; MinClass: TClass): TControl;
4239: function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4240:
4241: { *****Utility routines of unit classes}
4242: function LineStart(Buffer, BufPos: PChar): PChar
4243: function ExtractStrings(Separators, WhiteSpace: TSysCharSet; Content: PChar; '+
4244:   'Strings: TStrings): Integer
4245: function TestStreamFormat( Stream : TStream ) : TStreamOriginalFormat
4246: procedure RegisterClass( AClass : TPersistentClass)
4247: procedure RegisterClasses( AClasses : array of TPersistentClass)
4248: procedure RegisterClassAlias( AClass : TPersistentClass; const Alias : string)
4249: procedure UnRegisterClass( AClass : TPersistentClass)
4250: procedure UnRegisterClasses( AClasses : array of TPersistentClass)
4251: procedure UnRegisterModuleClasses( Module : HMODULE)
4252: function FindGlobalComponent( const Name : string ) : TComponent
4253: function IsUniqueGlobalComponentName( const Name : string ) : Boolean
4254: function InitInheritedComponent( Instance : TComponent; RootAncestor : TClass ) : Boolean
4255: function InitComponentRes( const ResName : string; Instance : TComponent ) : Boolean
4256: function ReadComponentRes( const ResName : string; Instance : TComponent ) : TComponent
4257: function ReadComponentResEx( HInstance : THandle; const ResName : string ) : TComponent
4258: function ReadComponentResFile( const FileName : string; Instance : TComponent ) : TComponent
4259: procedure WriteComponentResFile( const FileName : string; Instance : TComponent)
4260: procedure GlobalFixupReferences
4261: procedure GetFixupReferenceNames( Root : TComponent; Names : TStrings)
4262: procedure GetFixupInstanceNames(Root: TComponent; const ReferenceRootName string; Names : TStrings)
4263: procedure RedirectFixupReferences( Root : TComponent; const OldRootName, NewRootName : string)
4264: procedure RemoveFixupReferences( Root : TComponent; const RootName : string)
4265: procedure RemoveFixups( Instance : TPersistent)
4266: function FindNestedComponent( Root : TComponent; const NamePath : string ) : TComponent
4267: procedure BeginGlobalLoading
4268: procedure NotifyGlobalLoading
4269: procedure EndGlobalLoading
4270: function GetUltimateOwner1( ACollection : TCollection ) : TPersistent;
4271: function GetUltimateOwner( APersistent : TPersistent ) : TPersistent;
4272: // AddTypes('TWndMethod', 'Procedure (var Message : TMessage)

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4273: //Function MakeObjectInstance( Method : TWndMethod) : Pointer
4274: Procedure FreeObjectInstance( ObjectInstance : Pointer)
4275: // Function AllocateHWnd( Method : TWndMethod) : HWND
4276: Procedure DeallocateHWnd( Wnd : HWND)
4277: Function AncestorIsValid( Ancestor : TPersistent; Root, RootAncestor : TComponent) : Boolean
4278: *****unit uPSI_SqlTimSt and DB;*****
4279: Procedure VarSQLTimeStampCreate4( var aDest : Variant; const ASQLTimeStamp : TSQLTimeStamp);
4280: Function VarSQLTimeStampCreate3: Variant;
4281: Function VarSQLTimeStampCreate2( const AValue : string) : Variant;
4282: Function VarSQLTimeStampCreate1( const AValue : TDateTime) : Variant;
4283: Function VarSQLTimeStampCreate( const ASQLTimeStamp : TSQLTimeStamp) : Variant;
4284: Function VarSQLTimeStamp : TVarType
4285: Function VarIsSQLTimeStamp( const aValue : Variant) : Boolean;
4286: Function LocalToUTC( var TZInfo : TimeZone; var Value : TSQLTimeStamp) : TSQLTimeStamp //beta
4287: Function UTCToLocal( var TZInfo : TimeZone; var Value : TSQLTimeStamp) : TSQLTimeStamp //beta
4288: Function VarToSQLTimeStamp( const aValue : Variant) : TSQLTimeStamp
4289: Function SQLTimeStampToStr( const Format : string; DateTime : TSQLTimeStamp) : string
4290: Function SQLDayOfWeek( const DateTime : TSQLTimeStamp) : integer
4291: Function DateTimeToSQLTimeStamp( const DateTime : TDateTime) : TSQLTimeStamp
4292: Function SQLTimeStampToDateTime( const DateTime : TSQLTimeStamp) : TDateTime
4293: Function TryStrToSQLTimeStamp( const S : string; var TimeStamp : TSQLTimeStamp) : Boolean
4294: Function StrToSQLTimeStamp( const S : string) : TSQLTimeStamp
4295: Procedure CheckSqlTimeStamp( const ASQLTimeStamp : TSQLTimeStamp)
4296: Function ExtractFieldName( const Fields : string; var Pos : Integer) : string;
4297: Function ExtractFieldName( const Fields : WideString; var Pos : Integer) : WideString;
4298: //Procedure RegisterFields( const FieldClasses : array of TFieldClass)
4299: Procedure DatabaseError( const Message : WideString; Component : TComponent)
4300: Procedure DatabaseErrorFmt( const Message:WideString; const Args:array of const;Component:TComponent)
4301: Procedure DisposeMem( var Buffer, Size : Integer)
4302: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer) : Boolean
4303: Function GetFieldProperty(DataSet:TDataSet; Control:TComponent; const FieldName: WideString): TField
4304: Function VarTypeToDataType( VarType : Integer) : TFieldType
4305: *****unit JvStrings;*****
4306: {template functions}
4307: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4308: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4309: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4310: function RemoveMasterBlocks(const SourceStr: string): string;
4311: function RemoveFields(const SourceStr: string): string;
4312: {http functions}
4313: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4314: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4315: {set functions}
4316: procedure SplitSet(AText: string; AList: TStringList);
4317: function JoinSet(AList: TStringList): string;
4318: function FirstOfSet(const AText: string): string;
4319: function LastOfSet(const AText: string): string;
4320: function CountOfSet(const AText: string): Integer;
4321: function SetRotateRight(const AText: string): string;
4322: function SetRotateLeft(const AText: string): string;
4323: function SetPick(const AText: string; AIndex: Integer): string;
4324: function SetSort(const AText: string): string;
4325: function SetUnion(const Set1, Set2: string): string;
4326: function SetIntersect(const Set1, Set2: string): string;
4327: function SetExclude(const Set1, Set2: string): string;
4328: {replace any <,> etc by &lt; &gt;}
4329: function XMLSafe(const AText: string): string;
4330: {simple hash, Result can be used in Encrypt}
4331: function Hash(const AText: string): Integer;
4332: { Base64 encode and decode a string }
4333: function B64Encode(const S: AnsiString): AnsiString;
4334: function B64Decode(const S: AnsiString): AnsiString;
4335: {Basic encryption from a Borland Example}
4336: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4337: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4338: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4339: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4340: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4341: procedure CSVToTags(Src, Dst: TStringList);
4342: // converts a csv list to a tagged string list
4343: procedure TagsToCSV(Src, Dst: TStringList);
4344: // converts a tagged string list to a csv list
4345: // only fieldnames from the first record are scanned ib the other records
4346: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4347: {selects akey=avalue from Src and returns recordset in Dst}
4348: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4349: {filters Src for akey=avalue}
4350: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4351: {orders a tagged Src list by akey}
4352: function PosStr(const FindString, SourceString: string;
4353:   StartPos: Integer = 1): Integer;
4354: { PosStr searches the first occurrence of a substring FindString in a string
4355:   given by SourceString with case sensitivity (upper and lower case characters
4356:   are differed). This function returns the index value of the first character
4357:   of a specified substring from which it occurs in a given string starting with
4358:   StartPos character index. If a specified substring is not found Q_PosStr
4359:   returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4360: function PosStrLast(const FindString, SourceString: string): Integer;
4361: {finds the last occurrence}

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4362: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4363: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;
4364: { PosText searches the first occurrence of a substring FindString in a string
4365:   given by SourceString without case sensitivity (upper and lower case characters are not differed). This
   function returns the index value of the first character of a specified substring from which it occurs in a
   given string starting with Start
4366: function PosTextLast(const FindString, SourceString: string): Integer;
4367: {finds the last occurrence}
4368: function NameValuesToXML(const AText: string): string;
4369: {$IFDEF MSWINDOWS}
4370: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4371: {$ENDIF MSWINDOWS}
4372: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4373: procedure RecurseDirFiles(const ADir: string; var AFileList: TStringList);
4374: procedure RecurseDirProgs(const ADir: string; var AFileList: TStringList);
4375: procedure SaveString(const AFile, AText: string);
4376: procedure SaveStringasFile(const AFile, AText: string);
4377: function LoadStringJ(const AFile: string): string;
4378: function LoadStringOfFile(const AFile: string): string;
4379: procedure SaveStringToFile(const AFile, AText: string);
4380: function LoadStringFromFile(const AFile: string): string;
4381: function HexToColor(const AText: string): TColor;
4382: function UppercaseHTMLTags(const AText: string): string;
4383: function LowercaseHTMLTags(const AText: string): string;
4384: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4385: function RelativePath(const ASrc, ADst: string): string;
4386: function GetToken(var Start: Integer; const SourceText: string): string;
4387: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4388: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4389: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4390: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4391: // parses the beginning of an attribute: space + alpha character
4392: function ParseAttribute(var Start: Integer; const SourceText: string; var AName, AValue: string): Boolean;
4393: //parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4394: procedure ParseAttributes(const SourceText: string; Attributes: TStringList);
4395: // parses all name=value attributes to the attributes TStringList
4396: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4397: // checks if a name="value" pair exists and returns any value
4398: function GetStrValue(const AText, AName, ADefault: string): string;
4399: // retrieves string value from a line like:
4400: // name="jan verhoeven" email="jan1 dott verhoeven att wxs dott nl"
4401: // returns ADefault when not found
4402: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4403: // same for a color
4404: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4405: // same for an Integer
4406: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4407: // same for a float
4408: function GetBoolValue(const AText, AName: string): Boolean;
4409: // same for Boolean but without default
4410: function GetValue(const AText, AName: string): string;
4411: //retrieves string value from a line like: name="jan verhoeven" email="jan1 verhoeven att wxs dott nl"
4412: procedure SetValue(var AText: string; const AName, AValue: string);
4413: // sets a string value in a line
4414: procedure DeleteValue(var AText: string; const AName: string);
4415: // deletes a AName="value" pair from AText
4416: procedure GetNames(AText: string; AList: TStringList);
4417: // get a list of names from a string with name="value" pairs
4418: function GetHTMLColor(AColor: TColor): string;
4419: // converts a color value to the HTML hex value
4420: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4421: // finds a string backward case sensitive
4422: function BackPosText(Start: Integer; const FindString, SourceString: string): Integer;
4423: // finds a string backward case insensitive
4424: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4425:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4426: // finds a text range, e.g. <TD>...</TD> case sensitive
4427: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4428:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4429: // finds a text range, e.g. <TD>...</td> case insensitive
4430: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4431:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4432: // finds a text range backward, e.g. <TD>...</TD> case sensitive
4433: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4434:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4435: // finds a text range backward, e.g. <TD>...</td> case insensitive
4436: function PosTag(Start: Integer; SourceString: string; var RangeBegin: Integer;
4437:   var RangeEnd: Integer): Boolean;
4438: // finds a HTML or XML tag: <....>
4439: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4440:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4441: // finds the innertext between opening and closing tags
4442: function Easter(NYear: Integer): TDateTime;
4443: // returns the easter date of a year.
4444: function GetWeekNumber(Today: TDateTime): string;
4445: //gets a datecode. Returns year and weeknumber in format: YYWW
4446: function ParseNumber(const S: string): Integer;
4447: // parse number returns the last position, starting from 1
4448: function ParseDate(const S: string): Integer;

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4449: // parse a SQL style data string from positions 1,
4450: // starts and ends with #
4451:
4452: *****unit JvJCLUtils;*****
4453:
4454: function VarIsInt(Value: Variant): Boolean;
4455: // VarIsInt returns VarIsOrdinal-[varBoolean]
4456: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4457: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4458: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4459: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4460: { GetWordOnPos returns Word from string, S, on the cursor position, P }
4461: function GetWordOnPos(const S: string; const P: Integer): string;
4462: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4463: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4464: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4465: { GetWordOnPosEx working like GetWordOnPos function, but
4466:   also returns Word position in iBeg, iEnd variables }
4467: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4468: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4469: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4470: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4471: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4472: { GetEndPosCaret returns the caret position of the last char. For the position
4473:   after the last char of Text you must add 1 to the returned X value. }
4474: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4475: { GetEndPosCaret returns the caret position of the last char. For the position
4476:   after the last char of Text you must add 1 to the returned X value. }
4477: { SubStrBySeparator returns substring from string, S, separated with Separator string }
4478: function SubStrBySeparator(const S: string; const Index: Integer; const
  Separator: string; StartIndex: Integer = 1): string;
4479: function SubStrBySeparatorW(const S: WideString; const Index: Integer; const
  Separator: WideString; StartIndex: Integer = 1): WideString;
4480: { SubStrEnd same to previous function but Index numerated from the end of string }
4481: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4482: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4483: function SubWord(P: PChar; var P2: PChar): string;
4484: function CurrencyByWord(Value: Currency): string;
4485: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4486: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4487: { GetXYByPos is same as GetLineByPos, but returns X position in line as well }
4488: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4489: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4490: { ReplaceString searches for all substrings, OldPattern,
4491:   in a string, S, and replaces them with NewPattern }
4492: function ReplaceString(S: string; const OldPattern, NewPattern: string; StartIndex: Integer = 1): string;
4493: function ReplaceStringW(S: WideString; const OldPattern, NewPattern:
  WideString; StartIndex: Integer = 1): WideString;
4494: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4495: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4496: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
4497: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
  SUPPORTS_INLINE}
4498:
4499: { Next 4 function for russian chars transliterating.
4500:   This functions are needed because Oem2Ansi and AnsiOem functions sometimes suck }
4501: procedure Dos2Win(var S: AnsiString);
4502: procedure Win2Dos(var S: AnsiString);
4503: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4504: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4505: function Win2Koi(const S: AnsiString): AnsiString;
4506: { FillString fills the string Buffer with Count Chars }
4507: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4508: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4509: { MoveString copies Count Chars from Source to Dest }
4510: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
  inline; {$ENDIF SUPPORTS_INLINE} overload;
4511: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
  DstStartIdx: Integer; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4512: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4513: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4514: { MoveWideChar copies Count WideChars from Source to Dest }
4515: procedure MoveWideChar(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
  inline; {$ENDIF SUPPORTS_INLINE}
4516: { FillNativeChar fills Buffer with Count NativeChars }
4517: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
  SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4518: { MoveNativeChar copies Count WideChars from Source to Dest }
4519: procedure MoveNativeChar(const Source: string; var Dest: string; Count: Integer); // D2009 internal error {$IFDEF
  SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4520: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4521: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4522: { Spaces returns string consists on N space chars }
4523: function Spaces(const N: Integer): string;
4524: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4525: function AddSpaces(const S: string; const N: Integer): string;
4526: function SpacesW(const N: Integer): WideString;
4527: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4528:

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4529: { function LastDateRUS for russian users only }
4530: { returns date relative to current date: 'âââ âîý îâçââ' }
4531: function LastDateRUS(const Dat: TDateTime): string;
4532: { CurrencyToStr format Currency, Cur, using ffCurrency float format }
4533: function CurrencyToStr(const Cur: Currency): string;
4534: { HasChar returns True, if Char, Ch, contains in string, S }
4535: function HasChar(const Ch: Char; const S: string): Boolean;
4536: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4537: function HasAnyChar(const Chars: string; const S: string): Boolean;
4538: {$IFDEF COMPILER12_UP}
4539: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4540: {$ENDIF ~COMPILER12_UP}
4541: function CharInSetW(const Ch: WideChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF
SUPPORTS_INLINE}
4542: function CountOfChar(const Ch: Char; const S: string): Integer;
4543: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4544: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4545: function StrLICompW2(S1, S2: PWideChar; MaxLen: Integer): Integer;
4546: function StrPosW(S, SubStr: PWideChar): PWideChar;
4547: function StrLenW(S: PWideChar): Integer;
4548: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4549: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4550: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4551: TPixelFormat, '( pfDevice, pf1bit, pf4bit, pf8bit, pf24bit )
4552: TMappingMethod, '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTripel, mmGrayscale )
4553: function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4554: function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4555: procedure SetBitmapPixelFormat( Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod)
4556: function BitmapToMemoryStream(Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod): TMemoryStream;
4557: procedure GrayscaleBitmap( Bitmap : TBitmap)
4558: function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4559: procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer)
4560: function ScreenPixelFormat : TPixelFormat
4561: function ScreenColorCount : Integer
4562: procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic)
4563: function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean ) : TPoint
4564: // SIRegister_TJvGradient(CL);
4565:
4566: {***** files routines}
4567: procedure SetDelimitedText(List: TStrings; const Text: string; Delimiter: Char);
4568: const
4569: {$IFDEF MSWINDOWS}
4570: DefaultCaseSensitivity = False;
4571: {$ENDIF MSWINDOWS}
4572: {$IFDEF UNIX}
4573: DefaultCaseSensitivity = True;
4574: {$ENDIF UNIX}
4575: { GenTempFileName returns temporary file name on
4576: drive, there FileName is placed }
4577: function GenTempFileName(FileName: string): string;
4578: { GenTempFileNameExt same to previous function, but
4579: returning filename has given extension, FileExt }
4580: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4581: { ClearDir clears folder Dir }
4582: function ClearDir(const Dir: string): Boolean;
4583: { DeleteDir clears and than delete folder Dir }
4584: function DeleteDir(const Dir: string): Boolean;
4585: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4586: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4587: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4588: Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4589: function FileEquMasks(FileName, Masks: TFileName;
4590: CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4591: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4592: {$IFDEF MSWINDOWS}
4593: { LZFileExpand expand file, FileSource,
4594: into FileDest. Given file must be compressed, using MS Compress program }
4595: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4596: {$ENDIF MSWINDOWS}
4597: { FileGetInfo fills SearchRec record for specified file attributes}
4598: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4599: { HasSubFolder returns True, if folder APath contains other folders }
4600: function HasSubFolder(APath: TFileName): Boolean;
4601: { IsEmptyFolder returns True, if there are no files or
4602: folders in given folder, APath}
4603: function IsEmptyFolder(APath: TFileName): Boolean;
4604: { AddSlash returns string with added slash Char to Dir parameter, if needed }
4605: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4606: { AddPath returns FileName with Path, if FileName not contain any path }
4607: function AddPath(const FileName, Path: TFileName): TFileName;
4608: function AddPaths(const PathList, Path: string): string;
4609: function ParentPath(const Path: TFileName): TFileName;
4610: function FindInPath(const FileName, PathList: string): TFileName;
4611: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4612: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4613: { HasParam returns True, if program running with specified parameter, Param }
4614: function HasParam(const Param: string): Boolean;

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4615: function HasSwitch(const Param: string): Boolean;
4616: function Switch(const Param: string): string;
4617: { ExePath returns ExtractFilePath(ParamStr(0)) }
4618: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4619: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4620: //function FileTimeToDateTime(const FT: TFileTime): TDateTime;
4621: procedure FileTimeToDosDateTimeDword(const FT: TFileTime; out Dft: DWORD);
4622: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4623: {**** Graphic routines }
4624: { IstTFontSelected returns True, if True Type font is selected in specified device context }
4625: function IstTFontSelected(const DC: HDC): Boolean;
4626: function KeyPressed(VK: Integer): Boolean;
4627: function isKeyPressed: boolean; //true if key on memo2 (shell output) is pressed
4628: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4629: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4630: {**** Color routines }
4631: procedure RGBToHSV(R, G, B: Integer; var H, S, V: Integer);
4632: function RGBToBGR(Value: Cardinal): Cardinal;
4633: //function ColorToPrettyName(Value: TColor): string;
4634: //function PrettyNameToColor(const Value: string): TColor;
4635: {**** other routines }
4636: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4637: function IntPower(Base, Exponent: Integer): Integer;
4638: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4639: function StrToBool(const S: string): Boolean;
4640: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4641: function VarToInt(V: Variant): Integer;
4642: function VarToFloat(V: Variant): Double;
4643: { following functions are not documented because they not work properly sometimes, so do not use them }
4644: // (rom) ReplaceStrings1, GetSubStr removed
4645: function GetLongFileName(const FileName: string): string;
4646: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4647: function GetParameter: string;
4648: function GetComputerID: string;
4649: function GetComputerName: string;
4650: {**** string routines }
4651: { ReplaceAllStrings searches for all substrings, Words,
4652:   in a string, S, and replaces them with Phrases with the same Index. }
4653: function ReplaceAllStrings(const S: string; Words, Phrases: TStrings): string;
4654: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4655:   in the list, Words, and if founds, replaces this Word with string from another list, Phrases, with the
   same Index, and then update NewSelStart variable }
4656: function ReplaceStrings(const S: string; PosBeg, Len: Integer; Words, Phrases: TStrings; var NewSelStart: Integer): string;
4657: { CountOfLines calculates the lines count in a string, S,
4658:   each line must be separated from another with CrLf sequence }
4659: function CountOfLines(const S: string): Integer;
4660: { DeleteLines deletes all lines from strings which in the words, words.
4661:   The word of will be deleted from strings. }
4662: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4663: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4664:   Lines contained only spaces also deletes. }
4665: procedure DeleteEmptyLines(Ss: TStrings);
4666: { SQLAddWhere addes or modifies existing where-statement, where,
4667:   to the strings, SQL. Note: If strings SQL already contains where-statement,
4668:   it must be started on the begining of any line }
4669: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4670: {**** files routines - }
4671: {$IFDEF MSWINDOWS}
4672: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4673:   Resource can be compressed using MS Compress program }
4674: function ResSaveToFile(const Typ, Name: string; const Compressed: Boolean; const FileName: string): Boolean;
4675: function ResSaveToFileEx(Instance: HINST; Typ, Name: PChar; const Compressed: Boolean; const FileName: string):
   Boolean;
4676: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4677: {$ENDIF MSWINDOWS}
4678: { IniReadSection read section, Section, from ini-file,
4679:   IniFileName, into strings, Ss. This function reads ALL strings from specified section.
4680:   Note: TIniFile.ReadSection function reads only strings with '=' symbol. }
4681: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4682: { LoadTextFile load text file, FileName, into string }
4683: function LoadTextFile(const FileName: TFileName): string;
4684: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4685: { ReadFolder reads files list from disk folder, Folder, that are equal to mask, Mask, into strings, FileList }
4686: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
4687: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4688: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4689: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4690: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
4691: function RATextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
4692: { RATextCalcHeight calculate needed height for
4693:   correct output, using RATextOut or RATextOutEx functions }
4694: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4695: { Cinema draws some visual effect }
4696: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4697: { Roughed fills rect with special 3D pattern }
4698: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4699: { 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 }
4700: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;

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4701: { TextWidth calculate text width for writing using standard desktop font }
4702: function TextWidth(const AStr: string): Integer;
4703: { TextHeight calculate text height for writing using standard desktop font }
4704: function TextHeight(const AStr: string): Integer;
4705: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4706: procedure Error(const Msg: string);
4707: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4708:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4709: {example Text parameter: 'Item 1<b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4710: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4711:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4712: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4713:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4714: function ItemHtPlain(const Text: string): string;
4715: { ClearList - clears list of TObject }
4716: procedure ClearList(List: TList);
4717: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
4718: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
4719: { RTTI support }
4720: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4721: function GetPropStr(Obj: TObject; const PropName: string): string;
4722: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4723: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4724: procedure PrepareIniSection(Ss: TStringList);
4725: { following functions are not documented because they are don't work properly, so don't use them }
4726: // (rom) from JvBandWindows to make it obsolete
4727: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4728: // (rom) from JvBandUtils to make it obsolete
4729: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4730: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4731: function CreateIconFromClipboard: TIcon;
4732: { begin JvIconClipboardUtils } { Icon clipboard routines }
4733: function CF_ICON: Word;
4734: procedure AssignClipboardIcon(Icon: TIcon);
4735: { Real-size icons support routines (32-bit only) }
4736: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4737: function CreateRealSizeIcon(Icon: TIcon): HICON;
4738: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4739: {end JvIconClipboardUtils }
4740: function CreateScreenCompatibleDC: HDC;
4741: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF
SUPPORTS_INLINE} inline; {$ENDIF}
4742: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4743: { begin JvRLE } // (rom) changed API for inclusion in JCL
4744: procedure RleCompressTo(InStream, OutStream: TStream);
4745: procedure RleDecompressTo(InStream, OutStream: TStream);
4746: procedure RleCompress(Stream: TStream);
4747: procedure RleDecompress(Stream: TStream);
4748: { end JvRLE } { begin JvDateUtil }
4749: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4750: function IsLeapYear(AYear: Integer): Boolean;
4751: function DaysInAMonth(const AYear, AMonth: Word): Word;
4752: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4753: function FirstDayOfPrevMonth: TDateTime;
4754: function LastDayOfPrevMonth: TDateTime;
4755: function FirstDayOfNextMonth: TDateTime;
4756: function ExtractDay(ADate: TDateTime): Word;
4757: function ExtractMonth(ADate: TDateTime): Word;
4758: function ExtractYear(ADate: TDateTime): Word;
4759: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4760: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$ENDIF SUPPORTS_INLINE}
4761: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4762: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4763: function ValidDate(ADate: TDateTime): Boolean;
4764: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4765: function MonthsBetween(Date1, Date2: TDateTime): Double;
4766: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4767: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4768: function DaysBetween(Date1, Date2: TDateTime): Longint;
4769: { The same as previous but if Date2 < Date1 result = 0 }
4770: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4771: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4772: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4773: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4774: function IncMsec(ATime: TDateTime; Delta: Integer): TDateTime;
4775: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4776: { String to date conversions }
4777: function GetDateOrder(const DateFormat: string): TDateOrder;
4778: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4779: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4780: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4781: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4782: //function DefDateFormat(AFourDigitYear: Boolean): string;
4783: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4784: function FormatLongDate(Value: TDateTime): string;
4785: function FormatLongDateTime(Value: TDateTime): string;
4786: { end JvDateUtil }
4787: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4788: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;

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4789: { begin JvStrUtils } { ** Common string handling routines ** }
4790: {$IFDEF UNIX}
4791: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4792:   const ToCode, FromCode: AnsiString): Boolean;
4793: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4794: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4795: function OemStrToAnsi(const S: AnsiString): AnsiString;
4796: function AnsiStrToOem(const S: AnsiString): AnsiString;
4797: {$ENDIF UNIX}
4798: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4799: { StrToOem translates a string from the Windows character set into the OEM character set. }
4800: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4801: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4802: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4803: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4804: function ReplaceStr(const S, Srch, Replace: string): string;
4805: { Returns string with every occurrence of Srch string replaced with Replace string. }
4806: function DelSpace(const S: string): string;
4807: { DelSpace return a string with all white spaces removed. }
4808: function DelChars(const S: string; Chr: Char): string;
4809: { DelChars return a string with all Chr characters removed. }
4810: function DelBSpace(const S: string): string;
4811: { DelBSpace trims leading spaces from the given string. }
4812: function DelEspace(const S: string): string;
4813: { DelEspace trims trailing spaces from the given string. }
4814: function DelRSpace(const S: string): string;
4815: { DelRSpace trims leading and trailing spaces from the given string. }
4816: function DelSpace1(const S: string): string;
4817: { DelSpace1 return a string with all non-single white spaces removed. }
4818: function Tab2Space(const S: string; Numb: Byte): string;
4819: { Tab2Space converts any tabulation character in the given string to the
4820:   Numb spaces characters. }
4821: function NPos(const C: string; S: string; N: Integer): Integer;
4822: { NPos searches for a N-th position of substring C in a given string. }
4823: function MakeStr(C: Char; N: Integer): string; overload;
4824: {$IFDEF COMPILER12_UP}
4825: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4826: {$ENDIF !COMPILER12_UP}
4827: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4828: { MakeStr return a string of length N filled with character C. }
4829: function AddChar(C: Char; const S: string; N: Integer): string;
4830: { AddChar return a string left-padded to length N with characters C. }
4831: function AddCharR(C: Char; const S: string; N: Integer): string;
4832: { AddCharR return a string right-padded to length N with characters C. }
4833: function LeftStr(const S: string; N: Integer): string;
4834: { LeftStr return a string right-padded to length N with blanks. }
4835: function RightStr(const S: string; N: Integer): string;
4836: { RightStr return a string left-padded to length N with blanks. }
4837: function CenterStr(const S: string; Len: Integer): string;
4838: { CenterStr centers the characters in the string based upon the Len specified. }
4839: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4840: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4841:   -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4842: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4843: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4844: function Copy2Symb(const S: string; Symb: Char): string;
4845: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4846: function Copy2SymbDel(var S: string; Symb: Char): string;
4847: { Copy2SymbDel returns a substring of a string S from beginning to first
4848:   character Symb and removes this substring from S. }
4849: function Copy2Space(const S: string): string;
4850: { Copy2Symb returns a substring of a string S from beginning to first white space. }
4851: function Copy2SpaceDel(var S: string): string;
4852: { Copy2SpaceDel returns a substring of a string S from beginning to first
4853:   white space and removes this substring from S. }
4854: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4855: { Returns string, with the first letter of each word in uppercase,
4856:   all other letters in lowercase. Words are delimited by WordDelims. }
4857: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4858: { WordCount given a set of word delimiters, returns number of words in S. }
4859: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4860: { Given a set of word delimiters, returns start position of N'th word in S. }
4861: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4862: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4863: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4864: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4865:   delimiters, return the N'th word in S. }
4866: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;
4867: { ExtractSubstr given a set of word delimiters, returns the substring from S,
4868:   that started from position Pos. }
4869: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4870: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4871: function QuotedString(const S: string; Quote: Char): string;
4872: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4873: function ExtractQuotedString(const S: string; Quote: Char): string;
4874: { ExtractQuotedString removes the Quote characters from the beginning and
4875:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character. }
4876: function FindPart(const HelpWilds, InputStr: string): Integer;
4877: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }

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4878: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4879: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4880: function XorString(const Key, Src: ShortString): ShortString;
4881: function XorEncode(const Key, Source: string): string;
4882: function XorDecode(const Key, Source: string): string;
4883: { ** Command line routines ** }
4884: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4885: { ** Numeric string handling routines ** }
4886: function Numb2USA(const S: string): string;
4887: { Numb2USA converts numeric string S to USA-format. }
4888: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4889: { Dec2Hex converts the given value to a hexadecimal string representation
4890:   with the minimum number of digits (A) specified. }
4891: function Hex2Dec(const S: string): Longint;
4892: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4893: function Dec2Numb(N: Int64; A, B: Byte): string;
4894: { Dec2Numb converts the given value to a string representation with the
4895:   base equal to B and with the minimum number of digits (A) specified. }
4896: function Numb2Dec(S: string; B: Byte): Int64;
4897: { Numb2Dec converts the given B-based numeric string to the corresponding
4898:   integer value. }
4899: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4900: { IntToBin converts the given value to a binary string representation
4901:   with the minimum number of digits specified. }
4902: function IntToRoman(Value: Longint): string;
4903: { IntToRoman converts the given value to a roman numeric string representation. }
4904: function RomanToInt(const S: string): Longint;
4905: { RomanToInt converts the given string to an integer value. If the string
4906:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4907: function FindNotBlankCharPos(const S: string): Integer;
4908: function FindNotBlankCharPosW(const S: WideString): Integer;
4909: function AnsiChangeCase(const S: string): string;
4910: function WideChangeCase(const S: string): string;
4911: function StartsText(const SubStr, S: string): Boolean;
4912: function EndText(const SubStr, S: string): Boolean;
4913: function DequotedStr(const S: string; QuoteChar: Char = ''''): string;
4914: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4915: {end JvStrUtils}
4916: {$IFDEF UNIX}
4917: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4918: {$ENDIF UNIX}
4919: { begin JvFileUtil }
4920: function FileDateTime(const FileName: string): TDateTime;
4921: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4922: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4923: function NormalDir(const DirName: string): string;
4924: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4925: function ValidFileName(const FileName: string): Boolean;
4926: {$IFDEF MSWINDOWS}
4927: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4928: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4929: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4930: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4931: {$ENDIF MSWINDOWS}
4932: function GetWindowsDir: string;
4933: function GetSystemDir: string;
4934: function ShortToLongFileName(const ShortName: string): string;
4935: function LongToShortFileName(const LongName: string): string;
4936: function ShortToLongPath(const ShortName: string): string;
4937: function LongToShortPath(const LongName: string): string;
4938: {$IFDEF MSWINDOWS}
4939: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4940: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4941: {$ENDIF MSWINDOWS}
4942: { end JvFileUtil }
4943: // Works like PtInRect but includes all edges in comparison
4944: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
4945: // Works like PtInRect but excludes all edges from comparison
4946: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
4947: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
4948: function IsFourDigitYear: Boolean;
4949: { moved from JvJCLUtils }
4950: //Open an object with the shell (url or something like that)
4951: function OpenObject(const Value: string): Boolean; overload;
4952: function OpenObject(Value: PChar): Boolean; overload;
4953: {$IFDEF MSWINDOWS}
4954: //Raise the last Exception
4955: procedure RaiseLastWin32; overload;
4956: procedure RaiseLastWin32(const Text: string); overload;
4957: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
4958:   significant 32 bits of a file's binary version number. Typically, this includes the major and minor
4959:   version placed together in one 32-bit Integer. I
4958: function GetFileVersion(const AFileName: string): Cardinal;
4959: {$EXTERNALSYM GetFileVersion}
4960: //Get version of Shell.dll
4961: function GetShellVersion: Cardinal;
4962: {$EXTERNALSYM GetShellVersion}
4963: // CD functions on HW
4964: procedure OpenCdDrive;

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4965: procedure CloseCdDrive;
4966: // returns True if Drive is accessible
4967: function DiskInDrive(Drive: Char): Boolean;
4968: {$ENDIF MSWINDOWS}
4969: //Same as linux function ;)
4970: procedure PError(const Text: string);
4971: // execute a program without waiting
4972: procedure Exec(const FileName, Parameters, Directory: string);
4973: // execute a program and wait for it to finish
4974: function ExecuteAndWait(CmdLine: string; const WorkingDirectory: string; Visibility: Integer = SW_SHOW): Int;
4975: // returns True if this is the first instance of the program that is running
4976: function FirstInstance(const ATitle: string): Boolean;
4977: // restores a window based on it's classname and Caption. Either can be left empty
4978: // to widen the search
4979: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
4980: // manipulate the traybar and start button
4981: procedure HideTraybar;
4982: procedure ShowTraybar;
4983: procedure ShowStartButton(Visible: Boolean = True);
4984: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
4985: procedure MonitorOn;
4986: procedure MonitorOff;
4987: procedure LowPower;
4988: // send a key to the window named AppName
4989: function SendKey(const AppName: string; Key: Char): Boolean;
4990: {$IFDEF MSWINDOWS}
4991: // returns a list of all win currently visible, the Objects property is filled with their window handle
4992: procedure GetVisibleWindows(List: TStringList);
4993: // associates an extension to a specific program
4994: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
4995: procedure AddToRecentDocs(const FileName: string);
4996: function GetRecentDocs: TStringList;
4997: {$ENDIF MSWINDOWS}
4998: function CharIsMoney(const Ch: Char): Boolean;
4999: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5000: function IntToExtended(I: Integer): Extended;
5001: { GetChangedText works out the new text given the current cursor pos & the key pressed
5002:   It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5003: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5004: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5005: //function StrIsInteger(const S: string): Boolean;
5006: function StrIsFloatMoney(const Ps: string): Boolean;
5007: function StrIsDateTime(const Ps: string): Boolean;
5008: function PreformatDateString(Ps: string): string;
5009: function BooleanToInteger(const B: Boolean): Integer;
5010: function StringToBoolean(const Ps: string): Boolean;
5011: function SafeStrToDateTime(const Ps: string): TDateTime;
5012: function SafeStrToDate(const Ps: string): TDateTime;
5013: function SafeStrToTime(const Ps: string): TDateTime;
5014: function StrDelete(const psSub, psMain: string): string;
5015: { returns the fractional value of pcValue }
5016: function TimeOnly(pcValue: TDateTime): TTime;
5017: { returns the integral value of pcValue }
5018: function DateOnly(pcValue: TDateTime): TDate;
5019: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5020: const { TDateTime value used to signify Null value }
5021:   NullEquivalentDate: TDateTime = 0.0;
5022: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5023: // Replacement for Win32Check to avoid platform specific warnings in D6
5024: function OSCheck(RetVal: Boolean): Boolean;
5025: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5026:   Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5027:   not be forced to use FileCtrl unnecessarily }
5028: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5029: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5030: { MinimizeString truncates long string, S, and appends'...'symbols,if Length of S is more than MaxLen }
5031: function MinimizeString(const S: string; const MaxLen: Integer): string;
5032: procedure RunDll32Internal(Wnd: THandle; const DLLName, FuncName, CmdLine: string; CmdShow: Integer =
  SW_SHOWDEFAULT);
5033: { 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. }
5034: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5035: {$ENDIF MSWINDOWS}
5036: procedure ResourceNotFound(ResID: PChar);
5037: function EmptyRect: TRect;
5038: function RectWidth(R: TRect): Integer;
5039: function RectHeight(R: TRect): Integer;
5040: function CompareRect(const R1, R2: TRect): Boolean;
5041: procedure RectNormalize(var R: TRect);
5042: function RectIsSquare(const R: TRect): Boolean;
5043: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5044: //If AMaxSize = -1 ,then auto calc Square's max size
5045: {$IFDEF MSWINDOWS}
5046: procedure FreeUnusedOle;
5047: function GetWindowsVersion: string;
5048: function LoadDLL(const LibName: string): THandle;
5049: function RegisterServer(const ModuleName: string): Boolean;
5050: function UnregisterServer(const ModuleName: string): Boolean;

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5051: { $ENDIF MSWINDOWS }
5052: { String routines }
5053: function GetEnvVar(const VarName: string): string;
5054: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5055: function StringToPChar(var S: string): PChar;
5056: function StrPAlloc(const S: string): PChar;
5057: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5058: function DropT(const S: string): string;
5059: { Memory routines }
5060: function AllocMemo(Size: Longint): Pointer;
5061: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5062: procedure FreeMemo(var fpBlock: Pointer);
5063: function GetMemoSize(fpBlock: Pointer): Longint;
5064: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5065: { Manipulate huge pointers routines }
5066: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5067: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5068: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5069: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5070: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5071: function WindowClassName(Wnd: THandle): string;
5072: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5073: procedure ActivateWindow(Wnd: THandle);
5074: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5075: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5076: { SetWindowTop put window to top without recreating window }
5077: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5078: procedure CenterWindow(Wnd: THandle);
5079: function MakeVariant(const Values: array of Variant): Variant;
5080: { Convert dialog units to pixels and backwards }
5081: { $IFDEF MSWINDOWS }
5082: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5083: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5084: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5085: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5086: { $ENDIF MSWINDOWS }
5087: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5088: { $IFDEF BCB }
5089: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5090: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5091: { $ELSE }
5092: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5093: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5094: { $ENDIF BCB }
5095: { $IFDEF MSWINDOWS }
5096: { BrowseForFolderNative displays Browse For Folder dialog }
5097: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5098: { $ENDIF MSWINDOWS }
5099: procedure AntiAlias(Clip: TBitmap);
5100: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5101: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5102:   ABitmap: TBitmap; const SourceRect: TRect);
5103: function IsTrueType(const FontName: string): Boolean;
5104: // Removes all non-numeric characters from AValue and returns the resulting string
5105: function TextToValText(const AValue: string): string;
5106: function ExecRegExpr(const ARegExpr, AInputStr: RegExprString): boolean;
5107: procedure SplitRegExpr(const ARegExpr, AInputStr: RegExprString; APieces: TStringList);
5108: function ReplaceRegExpr(const ARegExpr, AInputStr,
5109:   AReplaceStr: RegExprString; AUseSubstitution: boolean): RegExprString;
5109: function QuoteRegExprMetaChars(const AStr: RegExprString): RegExprString;
5110: function RegExprSubExpressions(const ARegExpr: string; ASubExprs: TStringList; AExtendedSyntax: boolean):
5111:
5112: *****unit uPSI_JvTFUtils;
5113: function JExtractYear( ADate: TDateTime): Word;
5114: function JExtractMonth( ADate: TDateTime): Word;
5115: function JExtractDay( ADate: TDateTime): Word;
5116: function JExtractHours( ATime: TDateTime): Word;
5117: function JExtractMins( ATime: TDateTime): Word;
5118: function JExtractSecs( ATime: TDateTime): Word;
5119: function JExtractMSEcs( ATime: TDateTime): Word;
5120: function FirstOfMonth( ADate: TDateTime): TDateTime;
5121: function GetDayOfNthDOW( Year, Month, DOW, N: Word): Word;
5122: function GetWeeksInMonth( Year, Month: Word; StartOfWeek: Integer): Word;
5123: procedure IncBorlDOW( var BorlDOW: Integer; N: Integer);
5124: procedure IncDOW( var DOW: TTFDayOfWeek; N: Integer);
5125: procedure IncDays( var ADate: TDateTime; N: Integer);
5126: procedure IncWeeks( var ADate: TDateTime; N: Integer);
5127: procedure IncMonths( var ADate: TDateTime; N: Integer);
5128: procedure IncYears( var ADate: TDateTime; N: Integer);
5129: function EndOfMonth( ADate: TDateTime): TDateTime;
5130: function IsFirstOfMonth( ADate: TDateTime): Boolean;
5131: function IsEndOfMonth( ADate: TDateTime): Boolean;
5132: procedure EnsureMonth( Month: Word);
5133: procedure EnsureDOW( DOW: Word);
5134: function EqualDates( D1, D2: TDateTime): Boolean;
5135: function Lesser( N1, N2: Integer): Integer;
5136: function Greater( N1, N2: Integer): Integer;
5137: function GetDivLength( TotalLength, DivCount, DivNum: Integer): Integer;
5138: function GetDivNum( TotalLength, DivCount, X: Integer): Integer;

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5139: Function GetDivStart( TotalLength, DivCount, DivNum : Integer) : Integer
5140: Function DOWToBorl( ADOW : TTFDayOfWeek) : Integer
5141: Function BorlToDOW( BorlDOW : Integer) : TTFDayOfWeek
5142: Function DateToDOW( ADate : TDateTime) : TTFDayOfWeek
5143: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
AFont:TFont;AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5144: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5145: Function JRectWidth( ARect : TRect) : Integer
5146: Function JRectHeight( ARect : TRect) : Integer
5147: Function JEmptyRect : TRect
5148: Function IsClassByName( Obj : TObject; ClassName : string) : Boolean
5149:
5150: procedure SIRegister_MSUtils(CL: TPSPascalCompiler);
5151: begin
5152: Procedure HideTaskBarButton( hWindow : HWND)
5153: Function msLoadStr( ID : Integer) : String
5154: Function msFormat( fmt : String; params : array of const) : String
5155: Function msFileExists( const FileName : String) : Boolean
5156: Function msIntToStr( Int : Int64) : String
5157: Function msStrPas( const Str : PChar) : String
5158: Function msRenameFile( const OldName, NewName : String) : Boolean
5159: Function CutFileName( s : String) : String
5160: Function GetVersionInfo( var VersionString : String) : DWORD
5161: Function FormatTime( t : Cardinal) : String
5162: Function msCreateDir( const Dir : string) : Boolean
5163: Function SetAutoRun( NeedAutoRun : Boolean; AppName : String) : Boolean
5164: Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword) : DWORD
5165: Function msStrLen( Str : PChar) : Integer
5166: Function msDirectoryExists( const Directory : String) : Boolean
5167: Function GetFolder( hWnd : hWnd; RootDir : Integer; Caption : String) : String
5168: Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte) : LongBool
5169: Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
5170: Procedure SetEditWndProc( hWnd : HWND; ptr : TObject)
5171: Function GetTextFromFile( Filename : String) : string
5172: Function IsTopMost( hWnd : HWND) : Bool // 'LWA_ALPHA','LongWord').SetUInt( $00000002);
5173: Function msStrToIntDef( const s : String; const i : Integer) : Integer
5174: Function msStrToInt( s : String) : Integer
5175: Function GetItemText( hDlg : THandle; ID : DWORD) : String
5176: end;
5177:
5178: procedure SIRegister_ESBMaths2(CL: TPSPascalCompiler);
5179: begin
5180: //TDynFloatArray', 'array of Extended
5181: TDynLWordArray', 'array of LongWord
5182: TDynLIntArray', 'array of LongInt
5183: TDynFloatMatrix', 'array of TDynFloatArray
5184: TDynLWordMatrix', 'array of TDynLWordArray
5185: TDynLIntMatrix', 'array of TDynLIntArray
5186: Function SquareAll( const X : TDynFloatArray) : TDynFloatArray
5187: Function InverseAll( const X : TDynFloatArray) : TDynFloatArray
5188: Function LnAll( const X : TDynFloatArray) : TDynFloatArray
5189: Function Log10All( const X : TDynFloatArray) : TDynFloatArray
5190: Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended) : TDynFloatArray
5191: Function AddVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5192: Function SubVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5193: Function MultVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5194: Function DotProduct( const X, Y : TDynFloatArray) : Extended
5195: Function MNorm( const X : TDynFloatArray) : Extended
5196: Function MatrixIsRectangular( const X : TDynFloatMatrix) : Boolean
5197: Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean;
5198: Function MatrixIsSquare( const X : TDynFloatMatrix) : Boolean
5199: Function MatricesSameDimensions( const X, Y : TDynFloatMatrix) : Boolean
5200: Function AddMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5201: Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5202: Function SubtractMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5203: Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5204: Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended) : TDynFloatMatrix
5205: Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended);
5206: Function MultiplyMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix;
5207: Function TransposeMatrix( const X : TDynFloatMatrix) : TDynFloatMatrix;
5208: Function GrandMean( const X : TDynFloatMatrix; var N : LongWord) : Extended
5209: end;
5210:
5211: procedure SIRegister_ESBMaths(CL: TPSPascalCompiler);
5212: begin
5213: 'ESBMinSingle','Single').setExtended( 1.5e-45);
5214: 'ESBMaxSingle','Single').setExtended( 3.4e+38);
5215: 'ESBMinDouble','Double').setExtended( 5.0e-324);
5216: 'ESBMaxDouble','Double').setExtended( 1.7e+308);
5217: 'ESBMinExtended','Extended').setExtended( 3.6e-4951);
5218: 'ESBMaxExtended','Extended').setExtended( 1.1e+4932);
5219: 'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807);
5220: 'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807);
5221: 'ESBSqrt2','Extended').setExtended( 1.4142135623730950488);
5222: 'ESBSqrt3','Extended').setExtended( 1.7320508075688772935);
5223: 'ESBSqrt5','Extended').setExtended( 2.2360679774997896964);
5224: 'ESBSqrt10','Extended').setExtended( 3.1622776601683793320);
5225: 'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729);

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5226: 'ESBCbrt2','Extended').setExtended( 1.2599210498948731648);
5227: 'ESBCbrt3','Extended').setExtended( 1.4422495703074083823);
5228: 'ESBCbrt10','Extended').setExtended( 2.1544346900318837219);
5229: 'ESBCbrt100','Extended').setExtended( 4.6415888336127788924);
5230: 'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630);
5231: 'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440);
5232: 'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451);
5233: 'ESBInvSqrt5','Extended').setExtended( 0.44721359549995793928);
5234: 'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695);
5235: 'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147);
5236: 'ESBe','Extended').setExtended( 2.7182818284590452354);
5237: 'ESBe2','Extended').setExtended( 7.3890560989306502272);
5238: 'ESBePi','Extended').setExtended( 23.140692632779269006);
5239: 'ESBePiOn2','Extended').setExtended( 4.8104773809653516555);
5240: 'ESBePiOn4','Extended').setExtended( 2.1932800507380154566);
5241: 'ESBLn2','Extended').setExtended( 0.69314718055994530942);
5242: 'ESBLn10','Extended').setExtended( 2.30258509299404568402);
5243: 'ESBLnPi','Extended').setExtended( 1.14472988584940017414);
5244: 'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478);
5245: 'ESBLog2Base10','Extended').setExtended( 0.30102999566398119521);
5246: 'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730);
5247: 'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339);
5248: 'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765);
5249: 'ESBPi','Extended').setExtended( 3.1415926535897932385);
5250: 'ESBPiPi','Extended').setExtended( 3.1830988618379067154e-1);
5251: 'ESBTwoPi','Extended').setExtended( 6.2831853071795864769);
5252: 'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5253: 'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5254: 'ESBPiToE','Extended').setExtended( 22.459157718361045473);
5255: 'ESBPiOn2','Extended').setExtended( 1.5707963267948966192);
5256: 'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5257: 'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5258: 'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5259: 'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5260: 'ESBTwoToPower63','Extended').setExtended( 9223372036854775808.0);
5261: 'ESBOneRadian','Extended').setExtended( 57.295779513082320877);
5262: 'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5263: 'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5264: 'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5265: 'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5266: 'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1);
5267: //LongWord', 'Cardinal
5268: TBitList', 'Word
5269: Function UMul( const Num1, Num2 : LongWord) : LongWord
5270: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5271: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5272: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5273: Function SameFloat( const X1, X2 : Extended) : Boolean
5274: Function FloatIsZero( const X : Extended) : Boolean
5275: Function FloatIsPositive( const X : Extended) : Boolean
5276: Function FloatIsNegative( const X : Extended) : Boolean
5277: Procedure IncLim( var B : Byte; const Limit : Byte)
5278: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5279: Procedure IncLimW( var B : Word; const Limit : Word)
5280: Procedure IncLimI( var B : Integer; const Limit : Integer)
5281: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5282: Procedure DecLim( var B : Byte; const Limit : Byte)
5283: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5284: Procedure DecLimW( var B : Word; const Limit : Word)
5285: Procedure DecLimI( var B : Integer; const Limit : Integer)
5286: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5287: Function MaxB( const B1, B2 : Byte) : Byte
5288: Function MinB( const B1, B2 : Byte) : Byte
5289: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5290: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5291: Function MaxW( const B1, B2 : Word) : Word
5292: Function MinW( const B1, B2 : Word) : Word
5293: Function esbMaxI( const B1, B2 : Integer) : Integer
5294: Function esbMinI( const B1, B2 : Integer) : Integer
5295: Function MaxL( const B1, B2 : LongInt) : LongInt
5296: Function MinL( const B1, B2 : LongInt) : LongInt
5297: Procedure SwapB( var B1, B2 : Byte)
5298: Procedure SwapSI( var B1, B2 : ShortInt)
5299: Procedure SwapW( var B1, B2 : Word)
5300: Procedure SwapI( var B1, B2 : SmallInt)
5301: Procedure SwapL( var B1, B2 : LongInt)
5302: Procedure SwapI32( var B1, B2 : Integer)
5303: Procedure SwapC( var B1, B2 : LongWord)
5304: Procedure SwapInt64( var X, Y : Int64)
5305: Function esbSign( const B : LongInt) : ShortInt
5306: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5307: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5308: Function Max3Word( const X1, X2, X3 : Word) : Word
5309: Function Min3Word( const X1, X2, X3 : Word) : Word
5310: Function MaxBArray( const B : array of Byte) : Byte
5311: Function MaxWArray( const B : array of Word) : Word
5312: Function MaxSIArray( const B : array of ShortInt) : ShortInt
5313: Function MaxIArray( const B : array of Integer) : Integer
5314: Function MaxLArray( const B : array of LongInt) : LongInt

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5315: Function MinBArray( const B : array of Byte ) : Byte
5316: Function MinWArray( const B : array of Word ) : Word
5317: Function MinSIArray( const B : array of ShortInt ) : ShortInt
5318: Function MiniArray( const B : array of Integer ) : Integer
5319: Function MinLArray( const B : array of LongInt ) : LongInt
5320: Function SumBArray( const B : array of Byte ) : Byte
5321: Function SumBArray2( const B : array of Byte ) : Word
5322: Function SumSIArray( const B : array of ShortInt ) : ShortInt
5323: Function SumSIArray2( const B : array of ShortInt ) : Integer
5324: Function SumWArray( const B : array of Word ) : Word
5325: Function SumWArray2( const B : array of Word ) : LongInt
5326: Function SumIArray( const B : array of Integer ) : Integer
5327: Function SumLArray( const B : array of LongInt ) : LongInt
5328: Function SumLWArray( const B : array of LongWord ) : LongWord
5329: Function ESBDigits( const X : LongWord ) : Byte
5330: Function BitsHighest( const X : LongWord ) : Integer
5331: Function ESBBitsNeeded( const X : LongWord ) : Integer
5332: Function esbGCD( const X, Y : LongWord ) : LongWord
5333: Function esbLCM( const X, Y : LongInt ) : Int64
5334: //Function esbLCM( const X, Y : LongInt ) : LongInt
5335: Function RelativePrime( const X, Y : LongWord ) : Boolean
5336: Function Get87ControlWord : TBitList
5337: Procedure Set87ControlWord( const CWord : TBitList )
5338: Procedure SwapExt( var X, Y : Extended )
5339: Procedure SwapDbl( var X, Y : Double )
5340: Procedure SwapSing( var X, Y : Single )
5341: Function esbSgn( const X : Extended ) : ShortInt
5342: Function Distance( const X1, Y1, X2, Y2 : Extended ) : Extended
5343: Function ExtMod( const X, Y : Extended ) : Extended
5344: Function ExtRem( const X, Y : Extended ) : Extended
5345: Function CompMOD( const X, Y : Comp ) : Comp
5346: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended )
5347: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended )
5348: Function DMS2Extended( const Degs, Mins, Secs : Extended ) : Extended
5349: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended )
5350: Function MaxExt( const X, Y : Extended ) : Extended
5351: Function MinExt( const X, Y : Extended ) : Extended
5352: Function MaxEArray( const B : array of Extended ) : Extended
5353: Function MinEArray( const B : array of Extended ) : Extended
5354: Function MaxSArray( const B : array of Single ) : Single
5355: Function MinSArray( const B : array of Single ) : Single
5356: Function MaxCArray( const B : array of Comp ) : Comp
5357: Function MinCArray( const B : array of Comp ) : Comp
5358: Function SumSArray( const B : array of Single ) : Single
5359: Function SumEArray( const B : array of Extended ) : Extended
5360: Function SumSqEArray( const B : array of Extended ) : Extended
5361: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended ) : Extended
5362: Function SumXYEArray( const X, Y : array of Extended ) : Extended
5363: Function SumCArray( const B : array of Comp ) : Comp
5364: Function FactorialX( A : LongWord ) : Extended
5365: Function PermutationX( N, R : LongWord ) : Extended
5366: Function esbBinomialCoeff( N, R : LongWord ) : Extended
5367: Function IsPositiveEArray( const X : array of Extended ) : Boolean
5368: Function esbGeometricMean( const X : array of Extended ) : Extended
5369: Function esbHarmonicMean( const X : array of Extended ) : Extended
5370: Function ESBMean( const X : array of Extended ) : Extended
5371: Function esbSampleVariance( const X : array of Extended ) : Extended
5372: Function esbPopulationVariance( const X : array of Extended ) : Extended
5373: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended )
5374: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended )
5375: Function GetMedian( const SortedX : array of Extended ) : Extended
5376: Function GetMode( const SortedX : array of Extended; var Mode : Extended ) : Boolean
5377: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended )
5378: Function ESBMagnitude( const X : Extended ) : Integer
5379: Function ESBTan( Angle : Extended ) : Extended
5380: Function ESBcot( Angle : Extended ) : Extended
5381: Function ESBcosec( const Angle : Extended ) : Extended
5382: Function ESBsec( const Angle : Extended ) : Extended
5383: Function ESBArcTan( X, Y : Extended ) : Extended
5384: Procedure ESBSinCos( Angle : Extended; var SinX, CosX : Extended )
5385: Function ESBArcCos( const X : Extended ) : Extended
5386: Function ESBArcSin( const X : Extended ) : Extended
5387: Function ESBArcSec( const X : Extended ) : Extended
5388: Function ESBArcCosec( const X : Extended ) : Extended
5389: Function ESBLog10( const X : Extended ) : Extended
5390: Function ESBLog2( const X : Extended ) : Extended
5391: Function ESBLogBase( const X, Base : Extended ) : Extended
5392: Function Pow2( const X : Extended ) : Extended
5393: Function IntPow( const Base : Extended; const Exponent : LongWord ) : Extended
5394: Function ESBIntPower( const X : Extended; const N : LongInt ) : Extended
5395: Function XtoY( const X, Y : Extended ) : Extended
5396: Function esbTenToY( const Y : Extended ) : Extended
5397: Function esbTwoToY( const Y : Extended ) : Extended
5398: Function LogXtoBaseY( const X, Y : Extended ) : Extended
5399: Function esbISqrt( const I : LongWord ) : LongWord
5400: Function ILog2( const I : LongWord ) : LongWord
5401: Function IGreatestPowerOf2( const N : LongWord ) : LongWord
5402: Function ESBArCosh( X : Extended ) : Extended
5403: Function ESBArSinh( X : Extended ) : Extended

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5404: Function ESBarTanh( X : Extended) : Extended
5405: Function ESBcosh( X : Extended) : Extended
5406: Function ESBSinh( X : Extended) : Extended
5407: Function ESBTanh( X : Extended) : Extended
5408: Function InverseGamma( const X : Extended) : Extended
5409: Function esbGamma( const X : Extended) : Extended
5410: Function esbLnGamma( const X : Extended) : Extended
5411: Function esbBeta( const X, Y : Extended) : Extended
5412: Function IncompleteBeta( X : Extended; P, Q : Extended) : Extended
5413: end;
5414:
5415: *****Integer Huge Cardinal Utils*****
5416: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean) : uint64
5417: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean) : uint32
5418: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean) : uint64
5419: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean) : uint32
5420: Function BitCount_8( Value : byte) : integer
5421: Function BitCount_16( Value : uint16) : integer
5422: Function BitCount_32( Value : uint32) : integer
5423: Function BitCount_64( Value : uint64) : integer
5424: Function CountSetBits_64( Value : uint64) : integer TPrimalityTestNoticeProc',
5425: Procedure ( CountPrimalityTests : integer)
5426: Function gcd( a, b : THugeCardinal) : THugeCardinal
5427: Function lcm( a, b : THugeCardinal) : THugeCardinal
5428: Function isCoPrime( a, b : THugeCardinal) : boolean
5429: Function isProbablyPrime(p : THugeCardinal; OnProgress : TProgress; var wasAborted : boolean) : boolean
5430: Function hasSmallFactor( p : THugeCardinal) : boolean
5431: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest :
TPrimalityTestNoticeProc; PassCount : integer; Pool1 : TMemoryStreamPool; var Prime : THugeCardinal; var
NumbersTested : integer) : boolean
5432: Function Inverse( Prime, Modulus : THugeCardinal) : THugeCardinal
5433: Const ('StandardExponent', 'LongInt').SetInt( 65537);
5434: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN : integer; Fixed_e : uint64; var N, e, d,
Totient : TProgress; OnPrimalityTest : TPrimalityTestNoticeProc; GeneratePrimePassCount : int; Pool1 : TMemoryStreamPo
Numbers
5435: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal) : boolean')
5436:
5437: procedure SIRegister_xrtl_math_Integer(CL: TPSPascalCompiler);
5438: begin
5439:   AddTypeS('TXRTLInteger', 'array of Integer
5440:   AddClassN(FindClass('TOBJECT'), 'EXRTLMathException
5441:   (FindClass('TOBJECT'), 'EXRTLExtendInvalidArgument
5442:   AddClassN(FindClass('TOBJECT'), 'EXRTLDivisionByZero
5443:   AddClassN(FindClass('TOBJECT'), 'EXRTLExpInvalidArgument
5444:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadix
5445:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadixDigit
5446:   AddClassN(FindClass('TOBJECT'), 'EXRTLRootInvalidArgument
5447:   'BitsPerByte', 'LongInt').SetInt( 8);
5448:   BitsPerDigit', 'LongInt').SetInt( 32);
5449:   SignBitMask', 'LongWord').SetUInt( $80000000);
5450: Function XRTLAdjustBits( const ABits : Integer) : Integer
5451: Function XRTLLength( const AInteger : TXRTLInteger) : Integer
5452: Function XRTLDataBits( const AInteger : TXRTLInteger) : Integer
5453: Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer)
5454: Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer)
5455: Procedure XRTLBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer)
5456: Function XRTLBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer) : Integer
5457: Function XRTLBitGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer) : Boolean
5458: Function XRTLExtend(const AInteger:TXRTLInteger; ADataBits:Integer; Sign:Int; var AResult:TXRTLInteger):Int;
5459: Function XRTLZeroExtend(const AInteger:TXRTLInteger; ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5460: Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5461: Function XRTLSignStrip(const AInteger:TXRTLInteger; var AResult:TXRTLInteger; const AMinDataBits:Int):Int;
5462: Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5463: Procedure XRTLOr( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5464: Procedure XRTLLand( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5465: Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5466: Function XRTLSign( const AInteger : TXRTLInteger) : Integer
5467: Procedure XRTLZero( var AInteger : TXRTLInteger)
5468: Procedure XRTLOne( var AInteger : TXRTLInteger)
5469: Procedure XRTLMOne( var AInteger : TXRTLInteger)
5470: Procedure XRTLTwo( var AInteger : TXRTLInteger)
5471: Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5472: Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5473: Procedure XRTLFullSum( const A, B, C : Integer; var Sum, Carry : Integer)
5474: Function XRTLAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5475: Function XRTLAdd1(const AInteger1:TXRTLInteger; const AInteger2: Int64; var AResult:TXRTLInteger):Integer;
5476: Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5477: Function XRTLSub1( const AInteger1:TXRTLInteger; const AInteger2: Int64; var AResult:TXRTLInteger):Integer;
5478: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger) : Integer;
5479: Function XRTLCompare1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64) : Integer;
5480: Function XRTLUmul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5481: Function XRTLMulAdd(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer
5482: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5483: Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger)
5484: Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5485: Procedure XRTLSqrt( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5486: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5487: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger; var ALowApproxResult,
AHighApproxResult:TXRTLInteger)

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5488: Procedure XRTLURootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
      AHighApproxResult:TXRTLInteger);
5489: Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5490: Procedure XRTLExpMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult: TXRTLInteger)
5491: Procedure XRTLSLBB(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5492: Procedure XRTLSABL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5493: Procedure XRTLRCBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5494: Procedure XRTLSLDL(const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger)
5495: Procedure XRTLSADL(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5496: Procedure XRTLRCDL(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5497: Procedure XRTLSLBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5498: Procedure XRTLSABR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5499: Procedure XRTLRCBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5500: Procedure XRTLSLDR(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5501: Procedure XRTLSADR(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5502: Procedure XRTLRCDR(const AInteger: TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger)
5503: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer) : string
5504: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer) : string
5505: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer) : string
5506: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger)
5507: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger)
5508: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer)
5509: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger);
5510: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger);
5511: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger);
5512: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger)
5513: Procedure XRTLSplit(const AInteger: TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5514: Function XRTLGetMSBitIndex( const AInteger : TXRTLInteger) : Integer
5515: Procedure XRTLMinMax(const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger)
5516: Procedure XRTLMin( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5517: Procedure XRTLMin1( const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger);
5518: Procedure XRTLMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5519: Procedure XRTLMax1(const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger);
5520: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5521: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger)
5522: Procedure XRTLFactorial( const AInteger: TXRTLInteger; var AResult : TXRTLInteger)
5523: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5524: end;
5525:
5526: procedure SIRegister_JvXPCoreUtils(CL: TPSPascalCompiler);
5527: begin
5528: Function JvXPMethodsEqual( const Method1, Method2 : TMethod) : Boolean
5529: Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer)
5530: Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap);
5531: Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect)
5532: Procedure JvXPDrawBoundLines(const ACanvas:TCanvas;const BoundLines:TJvXPBoundLines;const
      AColor:TColor;const Rect:TRect);
5533: Procedure JvXPConvertToGray2( Bitmap : TBitmap)
5534: Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer)
5535: Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect;const TopColor,BottomColor:TColor;const
      Swapped:Boolean);
5536: Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor)
5537: Procedure JvXPSetDrawFlags(const AAlignment: TAlignment;const AWordWrap: Boolean; var Flags : Integer)
5538: 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)
5539: end;
5540:
5541:
5542: procedure SIRegister_uwinstr(CL: TPSPascalCompiler);
5543: begin
5544: Function StrDec( S : String) : String
5545: Function uIsNumeric( var S : String; var X : Float) : Boolean
5546: Function ReadNumFromEdit( Edit : TEdit) : Float
5547: Procedure WriteNumToFile( var F : Text; X : Float)
5548: end;
5549:
5550: procedure SIRegister_utexplot(CL: TPSPascalCompiler);
5551: begin
5552: Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean) : Boolean
5553: Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
5554: Procedure TeX_LeaveGraphics( Footer : Boolean)
5555: Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
5556: Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
5557: Procedure TeX_SetGraphTitle( Title : String)
5558: Procedure TeX_SetOxTitle( Title : String)
5559: Procedure TeX_SetOyTitle( Title : String)
5560: Procedure TeX_PlotOxAxis
5561: Procedure TeX_PlotOyAxis
5562: Procedure TeX_PlotGrid( Grid : TGrid)
5563: Procedure TeX_WriteGraphTitle
5564: Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5565: Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5566: Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5567: Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5568: Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)

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5569: Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5570: Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5571: Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5572: Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5573: Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5574: Function Xcm( X : Float ) : Float
5575: Function Ycm( Y : Float ) : Float
5576: end;
5577:
5578: *-----*)
5579: procedure SIRegister_VarRecUtils(CL: TPSPascalCompiler);
5580: begin
5581:   TConstArray', 'array of TVarRec
5582:   Function CopyVarRec( const Item : TVarRec ) : TVarRec
5583:   Function CreateConstArray( const Elements : array of const ) : TConstArray
5584:   Procedure FinalizeVarRec( var Item : TVarRec)
5585:   Procedure FinalizeConstArray( var Arr : TConstArray)
5586: end;
5587:
5588: procedure SIRegister_StStrS(CL: TPSPascalCompiler);
5589: begin
5590:   Function HexBS( B : Byte ) : ShortString
5591:   Function HexWS( W : Word ) : ShortString
5592:   Function HexLS( L : LongInt ) : ShortString
5593:   Function HexPtrS( P : Pointer ) : ShortString
5594:   Function BinaryBS( B : Byte ) : ShortString
5595:   Function BinaryWS( W : Word ) : ShortString
5596:   Function BinaryLS( L : LongInt ) : ShortString
5597:   Function OctalBS( B : Byte ) : ShortString
5598:   Function OctalWS( W : Word ) : ShortString
5599:   Function OctalLS( L : LongInt ) : ShortString
5600:   Function Str2Int16S( const S : ShortString; var I : SmallInt ) : Boolean
5601:   Function Str2WordS( const S : ShortString; var I : Word ) : Boolean
5602:   Function Str2LongS( const S : ShortString; var I : LongInt ) : Boolean
5603:   Function Str2RealS( const S : ShortString; var R : Double ) : Boolean
5604:   Function Str2Reals( const S : ShortString; var R : Real ) : Boolean
5605:   Function Str2ExtS( const S : ShortString; var R : Extended ) : Boolean
5606:   Function Long2StrS( L : LongInt ) : ShortString
5607:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt ) : ShortString
5608:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt ) : ShortString
5609:   Function ValPrepS( const S : ShortString ) : ShortString
5610:   Function CharStrS( C : AnsiChar; Len : Cardinal ) : ShortString
5611:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal ) : ShortString
5612:   Function PadS( const S : ShortString; Len : Cardinal ) : ShortString
5613:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal ) : ShortString
5614:   Function LeftPadS( const S : ShortString; Len : Cardinal ) : ShortString
5615:   Function TrimLeadS( const S : ShortString ) : ShortString
5616:   Function TrimTrails( const S : ShortString ) : ShortString
5617:   Function TrimS( const S : ShortString ) : ShortString
5618:   Function TrimSpacesS( const S : ShortString ) : ShortString
5619:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal ) : ShortString
5620:   Function CenterS( const S : ShortString; Len : Cardinal ) : ShortString
5621:   Function EntabS( const S : ShortString; TabSize : Byte ) : ShortString
5622:   Function DetabS( const S : ShortString; TabSize : Byte ) : ShortString
5623:   Function ScrambleS( const S, Key : ShortString ) : ShortString
5624:   Function SubstituteS( const S, FromStr, ToStr : ShortString ) : ShortString
5625:   Function FilterS( const S, Filters : ShortString ) : ShortString
5626:   Function CharExistsS( const S : ShortString; C : AnsiChar ) : Boolean
5627:   Function CharCountS( const S : ShortString; C : AnsiChar ) : Byte
5628:   Function WordCountS( const S, WordDelims : ShortString ) : Cardinal
5629:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal ) : Boolean
5630:   Function ExtractWords( N : Cardinal; const S, WordDelims : ShortString ) : ShortString
5631:   Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar ) : Cardinal
5632:   Function AsciiPositionS( N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5633:   Function ExtractAsciiS( N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5634:   Procedure WordWrapS(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5635:   Function CompStringS( const S1, S2 : ShortString ) : Integer
5636:   Function CompUCStringS( const S1, S2 : ShortString ) : Integer
5637:   Function SoundexS( const S : ShortString ) : ShortString
5638:   Function MakeLetterSetS( const S : ShortString ) : Longint
5639:   Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable)
5640:   Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5641:   Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5642:   Function DefaultExtensionS( const Name, Ext : ShortString ) : ShortString
5643:   Function ForceExtensionS( const Name, Ext : ShortString ) : ShortString
5644:   Function JustFileNameS( const PathName : ShortString ) : ShortString
5645:   Function JustNameS( const PathName : ShortString ) : ShortString
5646:   Function JustExtensionS( const Name : ShortString ) : ShortString
5647:   Function JustPathNameS( const PathName : ShortString ) : ShortString
5648:   Function AddBackSlashS( const DirName : ShortString ) : ShortString
5649:   Function CleanPathNameS( const PathName : ShortString ) : ShortString
5650:   Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal ) : Boolean
5651:   Function CommaizeS( L : LongInt ) : ShortString
5652:   Function CommaizeChS( L : Longint; Ch : AnsiChar ) : ShortString
5653:   Function FloatFormS(const Mask:ShortString;R:TstFloat;const LtCurr,RtCurr:ShortString;Sep,
DecPt:Char):ShortString;

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5654: Function LongIntFormS(const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5655: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal) : Boolean
5656: Function StrStPosS( const P, S : ShortString; var Pos : Cardinal) : Boolean
5657: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5658: Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal) : ShortString
5659: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal) : ShortString
5660: Function StrChDeleteS( const S : ShortString; Pos : Cardinal) : ShortString
5661: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5662: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5663: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5664: Function CopyLeftS( const S : ShortString; Len : Cardinal) : ShortString
5665: Function CopyMidS( const S : ShortString; First, Len : Cardinal) : ShortString
5666: Function CopyRightS( const S : ShortString; First : Cardinal) : ShortString
5667: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal) : ShortString
5668: Function CopyFromNthWords(const S,WordDelims:string;const AWord:String;N:Cardinal;var
SubString:ShortString) :Boolean;
5669: Function DeleteFromNthWords(const S,WordDelims:String;AWord:ShortString;N:Cardinal;var
SubStr:ShortString) : Boolean;
5670: Function CopyFromToWordS(const S,WordDelims,Word1,Word2:ShortString;N1,N2:Cardinal;var
SubString:ShortString):Boolean;
5671: Function DeleteFromToWordS(const S,WordDelims,Wrd1,Wrd2:ShortString;N1,N2:Cardinal;var
SubString:ShortString):Boolean;
5672: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean) : ShortString
5673: Function DeleteWithinS( const S, Delimiter : ShortString) : ShortString
5674: Function ExtractTokensS(const S,
Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings):Cardinal
5675: Function IsChAlphaS( C : Char) : Boolean
5676: Function IsChNumericS( C : Char; const Numbers : ShortString) : Boolean
5677: Function IsChAlphaNumericS( C : Char; const Numbers : ShortString) : Boolean
5678: Function IsStrAlphaS( const S : ShortString) : Boolean
5679: Function IsStrNumericS( const S, Numbers : ShortString) : Boolean
5680: Function IsStrAlphaNumericS( const S, Numbers : ShortString) : Boolean
5681: Function LastWords( const S, WordDelims, AWord : ShortString; var Position : Cardinal) : Boolean
5682: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal) : Boolean
5683: Function LastStringS( const S, AString : ShortString; var Position : Cardinal) : Boolean
5684: Function LeftTrimCharsS( const S, Chars : ShortString) : ShortString
5685: Function KeepCharsS( const S, Chars : ShortString) : ShortString
5686: Function RepeatStringS(const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen :
Cardinal):ShortString;
5687: Function ReplaceStringS(const S,OldString,NewString:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString;
5688: Function ReplaceStringAllS(const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5689: Function ReplaceWords(const S,WordDelims,OldWord,NewW:SString;N:Cardinal;var
Replacements:Cardinal):ShortString
5690: Function ReplaceWordAllS(const S,WordDelims,OldWord,NewWord:ShortString;var
Replacements:Cardinal):ShortString
5691: Function RightTrimCharsS( const S, Chars : ShortString) : ShortString
5692: Function StrWithinS(const S,SearchStr: ShortString;Start:Cardinal;var Position:Cardinal):boolean
5693: Function TrimCharsS( const S, Chars : ShortString) : ShortString
5694: Function WordPosS(const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5695: end;
5696:
5697:
5698: *****unit uPSI_StUtils; from Systools4*****
5699: Function SignL( L : LongInt) : Integer
5700: Function SignF( F : Extended) : Integer
5701: Function MinWord( A, B : Word) : Word
5702: Function MidWord( W1, W2, W3 : Word) : Word
5703: Function MaxWord( A, B : Word) : Word
5704: Function MinLong( A, B : LongInt) : LongInt
5705: Function MidLong( L1, L2, L3 : LongInt) : LongInt
5706: Function MaxLong( A, B : LongInt) : LongInt
5707: Function MinFloat( F1, F2 : Extended) : Extended
5708: Function MidFloat( F1, F2, F3 : Extended) : Extended
5709: Function MaxFloat( F1, F2 : Extended) : Extended
5710: Function MakeInteger16( H, L : Byte) : SmallInt
5711: Function MakeWordS( H, L : Byte) : Word
5712: Function SwapNibble( B : Byte) : Byte
5713: Function SwapWord( L : LongInt) : LongInt
5714: Procedure SetFlag( var Flags : Word; FlagMask : Word)
5715: Procedure ClearFlag( var Flags : Word; FlagMask : Word)
5716: Function FlagIsSet( Flags, FlagMask : Word) : Boolean
5717: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte)
5718: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte)
5719: Function ByteFlagIsSet( Flags, FlagMask : Byte) : Boolean
5720: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt)
5721: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt)
5722: Function LongFlagIsSet( Flags, FlagMask : LongInt) : Boolean
5723: Procedure ExchangeBytes( var I, J : Byte)
5724: Procedure ExchangeWords( var I, J : Word)
5725: Procedure ExchangeLongInts( var I, J : LongInt)
5726: Procedure ExchangeStructs( var I, J, Size : Cardinal)
5727: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word)
5728: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal)
5729: Function AddWordToPtr( P : __Pointer; W : Word) : __Pointer
5730: //*****uPSI_StFIN;*****
5731: Function AccruedInterestMaturity(Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis): Extended
5732: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate;Rate,
Par:Extended;Frequency:TStFrequency; Basis : TStBasis) : Extended

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5733: Function BondDuration( Settlement,Maturity:TstDate;Rate,
Yield:Ext;Frequency:TstFrequency;Basis:TstBasis):Extended;
5734: Function BondPrice(Settlement,Maturity:TstDate;Rate,Yield,
Redemption:Ext;Freq:TstFrequency;Basis:TstBasis): Extended
5735: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
Integer; Frequency : TstFrequency; Timing : TstPaymentTime ) : Extended
5736: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
Integer; Frequency : TstFrequency; Timing : TstPaymentTime ) : Extended
5737: Function DayCount( Day1, Day2 : TstDate; Basis : TstBasis ) : LongInt
5738: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer ) : Extended
5739: Function DiscountRate(Settlement,Maturity:TstDate; Price,Redemption:Extended;Basis:TstBasis): Extended;
5740: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5741: Function DollarToDecimalText( DecDollar : Extended ) : string
5742: Function DollarToFraction( DecDollar : Extended; Fraction : Integer ) : Extended
5743: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer ) : string
5744: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TstFrequency ) : Extended
5745: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
PV:Extended;Freq:TstFrequency;Timing:TstPaymentTime):Extended;
5746: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5747: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5748: Function InterestRates(NPeriods:Int;Pmt,PV,
FV:Extended;Freq:TstFrequency;Timing:TstPaymentTime;Guess:Extended):Extend;
5749: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5750: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended
5751: Function IsCardValid( const S : string ) : Boolean
5752: Function ModifiedDuration(Settlement,Maturity:TstDate;Rate,
Yield:Extended;Freq:TstFrequency;Basis:TstBasis):Extended;
5753: Function ModifiedIRR(const Values : array of Double; FinanceRate,ReinvestRate: Extended ) : Extended
5754: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended ) : Extended
5755: Function NetPresentValueS( Rate : Extended; const Values : array of Double ) : Extended
5756: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer ) : Extended
5757: Function NominalInterestRate( EffectRate : Extended; Frequency : TstFrequency ) : Extended
5758: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TstDate;Guess:Extended):Extended;
5759: Function NonperiodicNPV(Rate:Extended;const Values:array of Double;const Dates:array of TstDate):Extended;
5760: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TstFrequency; Timing
: TstPaymentTime): Extended
5761: Function Periods(Rate:Extended;Pmt,PV,FV:Extended;Frequency:TstFrequency;Timing:TstPaymentTime):Integer;
5762: Function PresentValueS( Rate: Extended; NPeriods: Integer; Pmt, FV: Extended; Frequency: TstFrequency;
Timing: TstPaymentTime): Extended
5763: Function ReceivedAtMaturity(Settlement,Maturity:TstDate;Invest,Discount:Extended;Basis:TstBasis):Extended;
5764: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5765: Function TBillEquivYield( Settlement, Maturity : TstDate; Discount : Extended ) : Extended
5766: Function TBillPrice( Settlement, Maturity : TstDate; Discount : Extended ) : Extended
5767: Function TBillYield( Settlement, Maturity : TstDate; Price : Extended ) : Extended
5768: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
Factor : Extended; NoSwitch : boolean ) : Extended
5769: Function YieldDiscounted(Settlement,Maturity:TstDate;Price,Redemption:Extended;Basis:TstBasis):Extended;
5770: Function YieldPeriodic(Settlement,Maturity:TstDate;Rate,Price,
Redemption:Extended;Freq:TstFrequency;Basis:TstBasis): Extended
5771: Function YieldMaturity(Issue,Settlement,Maturity:TstDate;Rate,Price:Extended;Basis:TstBasis):Extended;
5772:
5773: *****unit uPSI_StAstroP;
5774: Procedure PlanetsPos( JD : Double; var PA : TstPlanetsArray)
5775: *****unit unit uPSI_StStat; Statistic Package of SysTools*****
5776: Function AveDev( const Data : array of Double ) : Double
5777: Function AveDev16( const Data, NData : Integer ) : Double
5778: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5779: Function Correlation( const Data1, Data2 : array of Double ) : Double
5780: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5781: Function Covariance( const Data1, Data2 : array of Double ) : Double
5782: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5783: Function DevSq( const Data : array of Double ) : Double
5784: Function DevSql6( const Data, NData : Integer ) : Double
5785: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5786: ///Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5787: Function GeometricMeanS( const Data : array of Double ) : Double
5788: Function GeometricMean16( const Data, NData : Integer ) : Double
5789: Function HarmonicMeanS( const Data : array of Double ) : Double
5790: Function HarmonicMean16( const Data, NData : Integer ) : Double
5791: Function Largest( const Data : array of Double; K : Integer ) : Double
5792: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5793: Function MedianS( const Data : array of Double ) : Double
5794: Function Median16( const Data, NData : Integer ) : Double
5795: Function Mode( const Data : array of Double ) : Double
5796: Function Model16( const Data, NData : Integer ) : Double
5797: Function Percentile( const Data : array of Double; K : Double ) : Double
5798: Function Percentile16( const Data, NData : Integer; K : Double ) : Double
5799: Function PercentRank( const Data : array of Double; X : Double ) : Double
5800: Function PercentRank16( const Data, NData : Integer; X : Double ) : Double
5801: Function Permutations( Number, NumberChosen : Integer ) : Extended
5802: Function Combinations( Number, NumberChosen : Integer ) : Extended
5803: Function Factorials( N : Integer ) : Extended
5804: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean ) : Integer
5805: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean ) : Integer
5806: Function Smallest( const Data : array of Double; K : Integer ) : Double
5807: Function Smallest16( const Data, NData : Integer; K : Integer ) : Double
5808: Function TrimMean( const Data : array of Double; Percent : Double ) : Double
5809: Function TrimMean16( const Data, NData : Integer; Percent : Double ) : Double
5810: AddTypeS('TSTLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB'

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5811:   +1 : Double; R2 : Double; sigma :Double; SSR: double; SSE: Double; F0 : Double; df : Integer;end
5812: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var
LF:TStLinEst;ErrorStats:Bool;
5813: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var
LF:TStLinEst;ErrorStats:Bool;
5814: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5815: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5816: Function Intercept( const KnownY : array of Double; const KnownX : array of Double) : Double
5817: Function RSquared( const KnownY : array of Double; const KnownX : array of Double) : Double
5818: Function Slope( const KnownY : array of Double; const KnownX : array of Double) : Double
5819: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double) : Double
5820: Function BetaDist( X, Alpha, Beta, A, B : Single) : Single
5821: Function BetaInv( Probability, Alpha, Beta, A, B : Single) : Single
5822: Function BinomDist( NumberS, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean) : Single
5823: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single) : Integer
5824: Function ChiDist( X : Single; DegreesFreedom : Integer) : Single
5825: Function ChiInv( Probability : Single; DegreesFreedom : Integer) : Single
5826: Function ExponDist( X, Lambda : Single; Cumulative : Boolean) : Single
5827: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5828: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5829: Function LogNormDist( X, Mean, StandardDev : Single) : Single
5830: Function LogInv( Probability, Mean, StandardDev : Single) : Single
5831: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean) : Single
5832: Function NormInv( Probability, Mean, StandardDev : Single) : Single
5833: Function NormSDist( Z : Single) : Single
5834: Function NormSInv( Probability : Single) : Single
5835: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5836: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5837: Function TInv( Probability : Single; DegreesFreedom : Integer) : Single
5838: Function Erfc( X : Single) : Single
5839: Function GammaLn( X : Single) : Single
5840: Function LargestSort( const Data : array of Double; K : Integer) : Double
5841: Function SmallestSort( const Data : array of double; K : Integer) : Double
5842:
5843: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5844:   Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt) : LongInt
5845:   Function MinimumHeapToUse( RecLen : Cardinal) : LongInt
5846:   Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt) : TMergeInfo
5847:   Function DefaultMergeName( MergeNum : Integer) : string
5848:   Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5849:
5850: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5851: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double) : TStTime
5852: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double) : TStRiseSetRec
5853: Function SunPos( UT : TStDateTimeRec) : TStPosRec
5854: Function SunPosPrim( UT : TStDateTimeRec) : TStSunXYZRec
5855: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5856: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5857: Function LunarPhase( UT : TStDateTimeRec) : Double
5858: Function MoonPos( UT : TStDateTimeRec) : TStMoonPosRec
5859: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5860: Function FirstQuarter( D : TStDate) : TStLunarRecord
5861: Function FullMoon( D : TStDate) : TStLunarRecord
5862: Function LastQuarter( D : TStDate) : TStLunarRecord
5863: Function NewMoon( D : TStDate) : TStLunarRecord
5864: Function NextFirstQuarter( D : TStDate) : TStDateTimeRec
5865: Function NextFullMoon( D : TStDate) : TStDateTimeRec
5866: Function NextLastQuarter( D : TStDate) : TStDateTimeRec
5867: Function NextNewMoon( D : TStDate) : TStDateTimeRec
5868: Function PrevFirstQuarter( D : TStDate) : TStDateTimeRec
5869: Function PrevFullMoon( D : TStDate) : TStDateTimeRec
5870: Function PrevLastQuarter( D : TStDate) : TStDateTimeRec
5871: Function PrevNewMoon( D : TStDate) : TStDateTimeRec
5872: Function SiderealTime( UT : TStDateTimeRec) : Double
5873: Function Solstice( Y, Epoch : Integer; Summer : Boolean) : TStDateTimeRec
5874: Function Equinox( Y, Epoch : Integer; Vernal : Boolean) : TStDateTimeRec
5875: Function SEaster( Y, Epoch : Integer) : TStDate
5876: Function DateTimeToAJD( D : TDateTime) : Double
5877: Function HoursMin( RA : Double) : ShortString
5878: Function DegsMin( DC : Double) : ShortString
5879: Function AJDToDateTime( D : Double) : TDateTime
5880:
5881: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5882: Function CurrentDate : TStDate
5883: Function StValidDate( Day, Month, Year, Epoch : Integer) : Boolean
5884: Function DMYtoStDate( Day, Month, Year, Epoch : Integer) : TStDate
5885: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer)
5886: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer) : TStDate
5887: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer) : TStDate
5888: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer)
5889: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType) : TStDate
5890: Function WeekOfYear( Julian : TStDate) : Byte
5891: Function AstJulianDate( Julian : TStDate) : Double
5892: Function AstJulianDatetoStDate( AstJulian : Double; Truncate : Boolean) : TStDate
5893: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime) : Double
5894: Function StDayOfWeek( Julian : TStDate) : TStDayType
5895: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer) : TStDayType
5896: Function StIsLeapYear( Year : Integer) : Boolean
5897: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer) : Integer

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5898: Function ResolveEpoch( Year, Epoch : Integer) : Integer
5899: Function ValidTime( Hours, Minutes, Seconds : Integer) : Boolean
5900: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte)
5901: Function HMStoStTime( Hours, Minutes, Seconds : Byte) : TStTime
5902: Function CurrentTime : TStTime
5903: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte)
5904: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5905: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5906: Function RoundToNearestHour( T : TStTime; Truncate : Boolean) : TStTime
5907: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean) : TStTime
5908: Procedure DateTimeDiff(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt
5909: Procedure IncDateTime(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt)
5910: Function DateTimeToStDate( DT : TDateTime) : TStDate
5911: Function DateTimeToStTime( DT : TDateTime) : TStTime
5912: Function StDateToDateTime( D : TStDate) : TDateTime
5913: Function StTimeToDateTime( T : TStTime) : TDateTime
5914: Function Convert2ByteDate( TwoByteDate : Word) : TStDate
5915: Function Convert4ByteDate( FourByteDate : TStDate) : Word
5916:
5917: Procedure SIRegister_StDateSt(CL: TPSPascalCompiler);
5918: Function DateStringHMStoAstJD( const Picture, DS : string; H, M, S, Epoch : integer) : Double
5919: Function MonthToString( const Month : Integer) : string
5920: Function DateStringToStDate( const Picture, S : string; Epoch : Integer) : TStDate
5921: Function DateStringToDMY(const Picture,S:string; Epoch:Integer; var D, M, Y : Integer):Boolean
5922: Function StDateToDateString( const Picture : string; const Julian : TStDate; Pack : Boolean):string
5923: Function DayOfWeekToString( const WeekDay : TStDayType) : string
5924: Function DMYtoDateString(const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string);
5925: Function CurrentDateString( const Picture : string; Pack : Boolean) : string
5926: Function CurrentTimeString( const Picture : string; Pack : Boolean) : string
5927: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer) : Boolean
5928: Function TimeStringToStTime( const Picture, S : string) : TStTime
5929: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5930: Function StTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5931: Function DateStringIsBlank( const Picture, S : string) : Boolean
5932: Function InternationalDate( ForceCentury : Boolean) : string
5933: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean) : string
5934: Function InternationalTime( ShowSeconds : Boolean) : string
5935: Procedure ResetInternationalInfo
5936:
5937: procedure SIRegister_StBase(CL: TPSPascalCompiler);
5938: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer) : Boolean
5939: Function AnsiUpperCaseShort32( const S : string) : string
5940: Function AnsiCompareTextShort32( const S1, S2 : string) : Integer
5941: Function AnsiCompareStrShort32( const S1, S2 : string) : Integer
5942: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer) : Longint
5943: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
5944: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte)
5945: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal)
5946: Function UCase( C : AnsiChar) : AnsiChar
5947: Function LoCase( C : AnsiChar) : AnsiChar
5948: Function CompareLetterSets( Set1, Set2 : LongInt) : Cardinal
5949: Function CompStruct( const S1, S2, Size : Cardinal) : Integer
5950: Function Search(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
5951: Function StSearch(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5952: Function SearchUC(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5953: Function IsOrInheritsFrom( Root, Candidate : TClass) : boolean
5954: Procedure RaiseContainerError( Code : longint)
5955: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const)
5956: Function ProductOverflow( A, B : LongInt) : Boolean
5957: Function StNewStr( S : string) : PShortString
5958: Procedure StDisposeStr( PS : PShortString)
5959: Procedure ValLongInt( S : ShortString; var LI : Longint; var ErrorCode : integer)
5960: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer)
5961: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer)
5962: Procedure RaiseStError( ExceptionClass : EStExceptionClass; Code : LongInt)
5963: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt)
5964: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string)
5965:
5966: procedure SIRegister_usvd(CL: TPSPascalCompiler);
5967: begin
5968: Procedure SV_DeComp( A : TMatrix; Lb, Ub1, Ub2 : Integer; S : TVector; V : TMatrix)
5969: Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float)
5970: Procedure SV_Solve(U:TMatrix; S:TVector;V:TMatrix;B:TVector;Lb,Ub1,Ub2:Integer;X:TVector);
5971: Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ub1, Ub2 : Integer; A : TMatrix)
5972: Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int;
5973: end;
5974:
5975: *****unit unit ; StMath Package of SysTools*****
5976: Function IntPowerS( Base : Extended; Exponent : Integer) : Extended
5977: Function PowerS( Base, Exponent : Extended) : Extended
5978: Function StInvCos( X : Double) : Double
5979: Function StInvSin( Y : Double) : Double
5980: Function StInvTan2( X, Y : Double) : Double
5981: Function StTan( A : Double) : Double
5982: Procedure DumpException; unit StExpEng;
5983: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
5984:
5985: *****unit unit ; StCRC Package of SysTools*****
5986: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt

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5987: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
5988: Function Adler32OfFile( FileName : AnsiString ) : LongInt
5989: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
5990: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
5991: Function Crc16OfFile( FileName : AnsiString ) : Cardinal
5992: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
5993: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
5994: Function Crc32OfFile( FileName : AnsiString ) : LongInt
5995: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
5996: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
5997: Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
5998: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
5999: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
6000: Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
6001:
6002: //*****unit unit ; StBCD Package of SysTools*****
6003: Function AddBcd( const B1, B2 : TbcdS ) : TbcdS
6004: Function SubBcd( const B1, B2 : TbcdS ) : TbcdS
6005: Function MulBcd( const B1, B2 : TbcdS ) : TbcdS
6006: Function DivBcd( const B1, B2 : TbcdS ) : TbcdS
6007: Function ModBcd( const B1, B2 : TbcdS ) : TbcdS
6008: Function NegBcd( const B : TbcdS ) : TbcdS
6009: Function AbsBcd( const B : TbcdS ) : TbcdS
6010: Function FracBcd( const B : TbcdS ) : TbcdS
6011: Function IntBcd( const B : TbcdS ) : TbcdS
6012: Function RoundDigitsBcd( const B : TbcdS; Digits : Cardinal ) : TbcdS
6013: Function RoundPlacesBcd( const B : TbcdS; Places : Cardinal ) : TbcdS
6014: Function ValBcd( const S : string ) : TbcdS
6015: Function LongBcd( L : LongInt ) : TbcdS
6016: Function ExtBcd( E : Extended ) : TbcdS
6017: Function ExpBcd( const B : TbcdS ) : TbcdS
6018: Function LnBcd( const B : TbcdS ) : TbcdS
6019: Function IntPowBcd( const B : TbcdS; E : LongInt ) : TbcdS
6020: Function PowBcd( const B, E : TbcdS ) : TbcdS
6021: Function SqrtBcd( const B : TbcdS ) : TbcdS
6022: Function CmpBcd( const B1, B2 : TbcdS ) : Integer
6023: Function EqDigitsBcd( const B1, B2 : TbcdS; Digits : Cardinal ) : Boolean
6024: Function EqPlacesBcd( const B1, B2 : TbcdS; Digits : Cardinal ) : Boolean
6025: Function IsIntBcd( const B : TbcdS ) : Boolean
6026: Function TruncBcd( const B : TbcdS ) : LongInt
6027: Function BcdExt( const B : TbcdS ) : Extended
6028: Function RoundBcd( const B : TbcdS ) : LongInt
6029: Function StrBcd( const B : TbcdS; Width, Places : Cardinal ) : string
6030: Function StrExpBcd( const B : TbcdS; Width : Cardinal ) : string
6031: Function FormatBcd( Format : string; const B : TbcdS ) : string
6032: Function StrGeneralBcd( const B : TbcdS ) : string
6033: Function FloatFormBcd( const Mask: string; B: TbcdS; const LtCurr, RtCurr: string; Sep, DecPt: AnsiChar ): string
6034: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte)
6035:
6036: //*****unit unit ; StTxtDat; TStTextDataRecordSet Package of SysTools*****
6037: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings)
6038: Function StFieldTypeToStr( FieldType : TStSchemaFieldType ) : AnsiString
6039: Function StStrToFieldType( const S : AnsiString ) : TStSchemaFieldType
6040: Function StDeEscape( const EscStr : AnsiString ) : Char
6041: Function StDoEscape( Delim : Char ) : AnsiString
6042: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char ) : AnsiString
6043: Function AnsiHashText( const S : string; Size : Integer ) : Integer
6044: Function AnsiHashStr( const S : string; Size : Integer ) : Integer
6045: Function AnsiELFHashText( const S : string; Size : Integer ) : Integer
6046: Function AnsiELFHashStr( const S : string; Size : Integer ) : Integer
6047:
6048: //*****unit unit ; StNetCon Package of SysTools*****
6049: with AddClassN(FindClass('TStComponent'),'TStNetConnection') do begin
6050:   Constructor Create( AOwner : TComponent)
6051:   Function Connect : DWord
6052:   Function Disconnect : DWord
6053:   RegisterProperty('Password', 'String', iptrw);
6054:   Property('UserName', 'String', iptrw);
6055:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6056:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6057:   Property('LocalDevice', 'String', iptrw);
6058:   Property('ServerName', 'String', iptrw);
6059:   Property('ShareName', 'String', iptrw);
6060:   Property('OnConnect', 'TNotifyEvent', iptrw);
6061:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6062:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6063:   Property('OnDisconnect', 'TNotifyEvent', iptrw);
6064:   Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6065:   Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6066: end;
6067: //*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6068: / /153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6069: Procedure InitializeCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6070: Procedure EnterCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6071: Procedure LeaveCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6072: Function InitializeCriticalSectionAndSpinCount( var
  lpCriticalSection: TRTLCriticalSection; dwSpinCount: DWORD): BOOL;
6073: Function SetCriticalSectionSpinCount( var lpCriticalSection: TRTLCriticalSection; dwSpinCount: DWORD): DWORD;
6074: Function TryEnterCriticalSection( var lpCriticalSection : TRTLCriticalSection ) : BOOL

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6075: Procedure DeleteCriticalSection( var lpCriticalSection : TRTLCriticalSection)
6076: Function GetThreadContext( hThread : THandle; var lpContext : TContext) : BOOL
6077: Function SetThreadContext( hThread : THandle; const lpContext : TContext) : BOOL
6078: Function SuspendThread( hThread : THandle) : DWORD
6079: Function ResumeThread( hThread : THandle) : DWORD
6080: Function CreateThread2(ThreadFunc: TThreadFunction2; thrId: DWord) : THandle
6081: Function GetCurrentThread : THandle
6082: Procedure ExitThread( dwExitCode : DWORD)
6083: Function TerminateThread( hThread : THandle; dwExitCode : DWORD) : BOOL
6084: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD) : BOOL
6085: Procedure EndThread(ExitCode: Integer);
6086: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD) : DWORD
6087: Function MakeProcInstance( Proc : FARPROC; Instance : THandle) : FARPROC
6088: Procedure FreeProcInstance( Proc : FARPROC)
6089: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD)
6090: Function DisableThreadLibraryCalls( hLibModule : HMODULE) : BOOL
6091: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6092: Procedure ParallelJob1( ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6093: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Ptr;AParam:Pointer;ASafeSection:bool;
6094: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection: boolean);
6095: Function CreateParallelJob(ASelf:TObject;ATarget:Pointer;AParam:Ptr;ASafeSection:bool:TParallelJob;
6096: Function CreateParallelJob1(ATarget:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6097: Function CurrentParallelJobInfo : TParallelJobInfo
6098: Function ObtainParallelJobInfo : TParallelJobInfo
6099:
6100: *****unit uPSI_JclMime;
6101: Function MimeEncodeString( const S : AnsiString) : AnsiString
6102: Function MimeDecodeString( const S : AnsiString) : AnsiString
6103: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream)
6104: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream)
6105: Function MimeEncodedSize( const I : Cardinal) : Cardinal
6106: Function MimeDecodedSize( const I : Cardinal) : Cardinal
6107: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer)
6108: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6109: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSize : Cardinal) : Cardinal
6110: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSize:Card):
Cardinal;
6111:
6112: *****unit uPSI_JclPrint;
6113: Procedure DirectPrint( const Printer, Data : string)
6114: Procedure SetPrinterPixelsPerInch
6115: Function GetPrinterResolution : TPoint
6116: Function CharFitsWithinDots( const Text : string; const Dots : Integer) : Integer
6117: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect)
6118:
6119:
6120: //*****unit uPSI_ShLwApi;*****
6121: Function StrChr( lpStart : PChar; wMatch : WORD) : PChar
6122: Function StrChrI( lpStart : PChar; wMatch : WORD) : PChar
6123: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6124: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6125: Function StrCSpn( lpStr_, lpSet : PChar) : Integer
6126: Function StrCSpnI( lpStr1, lpSet : PChar) : Integer
6127: Function StrDup( lpSrch : PChar) : PChar
6128: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT) : PChar
6129: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT) : PChar
6130: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6131: Function StrIsIntlEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6132: Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6133: Function StrPBrk( psz, pszSet : PChar) : PChar
6134: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD) : PChar
6135: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD) : PChar
6136: Function StrRStrI( lpSource, lpLast, lpSrch : PChar) : PChar
6137: Function StrSpn( psz, pszSet : PChar) : Integer
6138: Function StrStr( lpFirst, lpSrch : PChar) : PChar
6139: Function StrStrI( lpFirst, lpSrch : PChar) : PChar
6140: Function StrToInt( lpSrch : PChar) : Integer
6141: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer) : BOOL
6142: Function StrTrim( psz : PChar; pszTrimChars : PChar) : BOOL
6143: Function ChrCmpI( w1, w2 : WORD) : BOOL
6144: Function ChrCmpIA( w1, w2 : WORD) : BOOL
6145: Function ChrCmpIW( w1, w2 : WORD) : BOOL
6146: Function StrIntlEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6147: Function StrIntlEqNI( s1, s2 : PChar; nChar : Integer) : BOOL
6148: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer) : PChar
6149: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6150: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6151: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6152: SZ_CONTENTTYPE_HTMLA('String').SetString( 'text/html
6153: SZ_CONTENTTYPE_HTMLW('String').SetString( 'text/html
6154: SZ_CONTENTTYPE_HTML('String').SetString( SZ_CONTENTTYPE_HTMLA);
6155: SZ_CONTENTTYPE_CDF('String').SetString( 'application/x-cdf
6156: SZ_CONTENTTYPE_CDFW('String').SetString( 'application/x-cdf
6157: SZ_CONTENTTYPE_CDF('String').SetString( SZ_CONTENTTYPE_CDF);
6158: Function PathIsHTMLFile( pszPath : PChar) : BOOL
6159: STIF_DEFAULT('LongWord').SetUInt( $00000000);
6160: STIF_SUPPORT_HEX('LongWord').SetUInt( $00000001);
6161: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer

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6162: Function StrNCpy( psz1, psz2 : PChar; cchMax : Integer ) : PChar
6163: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6164: Function PathAddBackslash( pszPath : PChar ) : PChar
6165: Function PathAddExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6166: Function PathAppend( pszPath : PChar; pMore : PChar ) : BOOL
6167: Function PathBuildRoot( szRoot : PChar; iDrive : Integer ) : PChar
6168: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar ) : BOOL
6169: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar ) : PChar
6170: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT ) : BOOL
6171: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD ) : BOOL
6172: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar ) : Integer
6173: Function PathFileExists( pszPath : PChar ) : BOOL
6174: Function PathFindExtension( pszPath : PChar ) : PChar
6175: Function PathFindFileName( pszPath : PChar ) : PChar
6176: Function PathFindNextComponent( pszPath : PChar ) : PChar
6177: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6178: Function PathGetArgs( pszPath : PChar ) : PChar
6179: Function PathFindSuffixArray( pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6180: Function PathIsLNFFileSpec( lpName : PChar ) : BOOL
6181: Function PathGetCharType( ch : Char ) : UINT
6182: GCT_INVALID, 'LongWord').SetUInt( $0000);
6183: GCT_LFNCHAR, 'LongWord').SetUInt( $0001);
6184: GCT_SHORTCHAR, 'LongWord').SetUInt( $0002);
6185: GCT_WILD, 'LongWord').SetUInt( $0004);
6186: GCT_SEPARATOR, 'LongWord').SetUInt( $0008);
6187: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6188: Function PathIsDirectory( pszPath : PChar ) : BOOL
6189: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6190: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6191: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6192: Function PathIsRelative( pszPath : PChar ) : BOOL
6193: Function PathIsRoot( pszPath : PChar ) : BOOL
6194: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6195: Function PathIsUNC( pszPath : PChar ) : BOOL
6196: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6197: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6198: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6199: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6200: Function PathIsURL( pszPath : PChar ) : BOOL
6201: Function PathMakePretty( pszPath : PChar ) : BOOL
6202: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6203: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6204: Procedure PathQuoteSpaces( lpsz : PChar)
6205: Function PathRelativePathTo( pszPath:PChar; pszFrom:PChar; dwAttrFrom:DWORD; pszTo:PChar; dwAttrTo:DWORD ):BOOL;
6206: Procedure PathRemoveArgs( pszPath : PChar)
6207: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6208: Procedure PathRemoveBlanks( pszPath : PChar)
6209: Procedure PathRemoveExtension( pszPath : PChar)
6210: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6211: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6212: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6213: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar)
6214: Function PathSkipRoot( pszPath : PChar ) : PChar
6215: Procedure PathStripPath( pszPath : PChar)
6216: Function PathStripToRoot( pszPath : PChar ) : BOOL
6217: Procedure PathUnquoteSpaces( lpsz : PChar)
6218: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6219: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6220: Function PathIsSystemFolder( pszPath : PChar; dwAttrb : DWORD ) : BOOL
6221: Procedure PathUndecorate( pszPath : PChar)
6222: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6223: URL_SCHEME_INVALID, 'LongInt').SetInt( - 1);
6224: URL_SCHEME_UNKNOWN, 'LongInt').SetInt( 0);
6225: URL_SCHEME_FTP, 'LongInt').SetInt( 1);
6226: URL_SCHEME_HTTP, 'LongInt').SetInt( 2);
6227: URL_SCHEME_GOPHER, 'LongInt').SetInt( 3);
6228: URL_SCHEME_MAILTO, 'LongInt').SetInt( 4);
6229: URL_SCHEME_NEWS, 'LongInt').SetInt( 5);
6230: URL_SCHEME_NNTP, 'LongInt').SetInt( 6);
6231: URL_SCHEME_TELNET, 'LongInt').SetInt( 7);
6232: URL_SCHEME_WAIS, 'LongInt').SetInt( 8);
6233: URL_SCHEME_FILE, 'LongInt').SetInt( 9);
6234: URL_SCHEME_MK, 'LongInt').SetInt( 10);
6235: URL_SCHEME_HTTPS, 'LongInt').SetInt( 11);
6236: URL_SCHEME_SHELL, 'LongInt').SetInt( 12);
6237: URL_SCHEME_SNEWS, 'LongInt').SetInt( 13);
6238: URL_SCHEME_LOCAL, 'LongInt').SetInt( 14);
6239: URL_SCHEME_JAVASCRIPT, 'LongInt').SetInt( 15);
6240: URL_SCHEME_VBSCRIPT, 'LongInt').SetInt( 16);
6241: URL_SCHEME_ABOUT, 'LongInt').SetInt( 17);
6242: URL_SCHEME_RES, 'LongInt').SetInt( 18);
6243: URL_SCHEME_MAXVALUE, 'LongInt').SetInt( 19);
6244: URL_SCHEME, 'Integer
6245: URL_PART_NONE, 'LongInt').SetInt( 0);
6246: URL_PART_SCHEME, 'LongInt').SetInt( 1);
6247: URL_PART_HOSTNAME, 'LongInt').SetInt( 2);
6248: URL_PART_USERNAME, 'LongInt').SetInt( 3);
6249: URL_PART_PASSWORD, 'LongInt').SetInt( 4);
6250: URL_PART_PORT, 'LongInt').SetInt( 5);

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6251: URL_PART_QUERY', 'LongInt').SetInt( 6);
6252: URL_PART', 'DWORD
6253: URLIS_URL', 'LongInt').SetInt( 0);
6254: URLIS_OPAQUE', 'LongInt').SetInt( 1);
6255: URLIS_NOHISTORY', 'LongInt').SetInt( 2);
6256: URLIS_FILEURL', 'LongInt').SetInt( 3);
6257: URLIS_APPLIABLE', 'LongInt').SetInt( 4);
6258: URLIS_DIRECTORY', 'LongInt').SetInt( 5);
6259: URLIS_HASQUERY', 'LongInt').SetInt( 6);
6260: TUrlIs', 'DWORD
6261: URL_UNESCAPE', 'LongWord').SetUInt( $10000000);
6262: URL_ESCAPE_UNSAFE', 'LongWord').SetUInt( $20000000);
6263: URL_PLUGGABLE_PROTOCOL', 'LongWord').SetUInt( $40000000);
6264: URL_WININET_COMPATIBILITY', 'LongWord').SetUInt( DWORD ( $80000000 ));
6265: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord').SetUInt( $02000000);
6266: URL_ESCAPE_SPACES_ONLY', 'LongWord').SetUInt( $04000000);
6267: URL_DONT_SIMPLIFY', 'LongWord').SetUInt( $08000000);
6268: URL_NO_META', 'LongWord').SetUInt( URL_DONT_SIMPLIFY);
6269: URL_UNESCAPE_INPLACE', 'LongWord').SetUInt( $00100000);
6270: URL_CONVERT_IF_DOSPATH', 'LongWord').SetUInt( $00200000);
6271: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord').SetUInt( $00400000);
6272: URL_INTERNAL_PATH', 'LongWord').SetUInt( $00800000);
6273: URL_FILE_USE_PATHURL', 'LongWord').SetUInt( $00010000);
6274: URL_ESCAPE_PERCENT', 'LongWord').SetUInt( $00001000);
6275: URL_ESCAPE_SEGMENT_ONLY', 'LongWord').SetUInt( $00002000);
6276: URL_PARTFLAG_KEEPScheme', 'LongWord').SetUInt( $00000001);
6277: URL_APPLY_DEFAULT', 'LongWord').SetUInt( $00000001);
6278: URL_APPLY_GUESSScheme', 'LongWord').SetUInt( $00000002);
6279: URL_APPLY_GUESSFILE', 'LongWord').SetUInt( $00000004);
6280: URL_APPLY_FORCEAPPLY', 'LongWord').SetUInt( $00000008);
6281: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL ) : Integer
6282: Function UrlCombine(pszBase, pszRelative: PChar; pszCombin: PChar; out pcchCombin: DWORD; dwFlags: DWORD): HRESULT;
6283: Function UrlCanonicalize(pszUrl: PChar; pszCanonicalized: PChar; pcchCanonic: DWORD; dwFlags: DWORD): HRESULT;
6284: Function UrlIsOpaque( pszURL : PChar ) : BOOL
6285: Function UrlIsNoHistory( pszURL : PChar ) : BOOL
6286: Function UrlIsFileUrl( pszURL : PChar ) : BOOL
6287: Function UrlIs( pszUrl : PChar; UrlIs : TUrlIs ) : BOOL
6288: Function UrlGetLocation( psz1 : PChar ) : PChar
6289: Function UrlUnescape( pszUrl, pszUnescaped : PChar; pcchUnescaped: DWORD; dwFlags : DWORD ) : HRESULT
6290: Function UrlEscape(pszUrl: PChar; pszEscaped: PChar; pcchEscaped: DWORD; dwFlags : DWORD) : HRESULT
6291: Function UrlCreateFromPath(pszPath: PChar; pszUrl: PChar; pcchUrl: DWORD; dwFlags : DWORD) : HRESULT
6292: Function PathCreateFromUrl(pszUrl: PChar; pszPath: PChar; pcchPath: DWORD; dwFlags : DWORD) : HRESULT
6293: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD ) : HRESULT
6294: Function UrlGetPart(pszIn: PChar; pszOut: PChar; pcchOut: DWORD; dwPart, dwFlags: DWORD) : HRESULT
6295: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD) : HRESULT
6296: Function HashData( pbData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD) : HRESULT
6297: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD) : HRESULT
6298: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD) : HRESULT
6299: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6300: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6301: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar ) : DWORD
6302: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD) : Longint
6303: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName: PChar; var
pcchValueName: DWORD; pdwType: DWORD; pvData : ___Pointer; pcbData : DWORD) : Longint
6304: Function SHQueryInfoKey(hKey: HKEY; pcSubKeys, pcchMaxSubKeyLen, pcVal, pcchMaxValueNameLen: DWORD): Longint;
6305: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD) : DWORD
6306: Function SHRegGetPath(hKey: HKEY; pcszSubKey, pcszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6307: Function SHRegSetPath( hKey: HKEY; pcszSubKey, pcszValue, pcszPath : PChar; dwFlags : DWORD): DWORD
6308: SHREGDEL_DEFAULT', 'LongWord').SetUInt( $00000000);
6309: SHREGDEL_HKCU', 'LongWord').SetUInt( $00000001);
6310: SHREGDEL_HKLM', 'LongWord').SetUInt( $00000010);
6311: SHREGDEL_BOTH', 'LongWord').SetUInt( $00000011);
6312: SHREGENUM_DEFAULT', 'LongWord').SetUInt( $00000000);
6313: SHREGENUM_HKCU', 'LongWord').SetUInt( $00000001);
6314: SHREGENUM_HKLM', 'LongWord').SetUInt( $00000010);
6315: SHREGENUM_BOTH', 'LongWord').SetUInt( $00000011);
6316: SHREGSET_HKCU', 'LongWord').SetUInt( $00000001);
6317: SHREGSET_FORCE_HKCU', 'LongWord').SetUInt( $00000002);
6318: SHREGSET_HKLM', 'LongWord').SetUInt( $00000004);
6319: SHREGSET_FORCE_HKLM', 'LongWord').SetUInt( $00000008);
6320: TSHRegDelFlags', 'DWORD
6321: TSHRegEnumFlags', 'DWORD
6322: HUSKEY', 'THandle
6323: ASSOCF_INIT_NOREMAPCLSID', 'LongWord').SetUInt( $00000001);
6324: ASSOCF_INIT_BYEXENAME', 'LongWord').SetUInt( $00000002);
6325: ASSOCF_OPEN_BYEXENAME', 'LongWord').SetUInt( $00000002);
6326: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord').SetUInt( $00000004);
6327: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord').SetUInt( $00000008);
6328: ASSOCF_NOUSERSETTINGS', 'LongWord').SetUInt( $00000010);
6329: ASSOCF_NOTRUNCATE', 'LongWord').SetUInt( $00000020);
6330: ASSOCF_VERIFY', 'LongWord').SetUInt( $00000040);
6331: ASSOCF_REMAPRUNDLL', 'LongWord').SetUInt( $00000080);
6332: ASSOCF_NOFIXUPS', 'LongWord').SetUInt( $00000100);
6333: ASSOCF_IGNOREBASECLASS', 'LongWord').SetUInt( $00000200);
6334: ASSOCF', 'DWORD
6335: ASSOCTSTR_COMMAND', 'LongInt').SetInt( 1);
6336: ASSOCTSTR_EXECUTABLE', 'LongInt').SetInt( 2);
6337: ASSOCTSTR_FRIENDLYDOCNAME', 'LongInt').SetInt( 3);
6338: ASSOCTSTR_FRIENDLYAPPNAME', 'LongInt').SetInt( 4);

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6339: ASSOCSTR_NOOPEN', 'LongInt').SetInt( 5);
6340: ASSOCSTR_SHELLNEWVALUE', 'LongInt').SetInt( 6);
6341: ASSOCSTR_DDECOMMAND', 'LongInt').SetInt( 7);
6342: ASSOCSTR_DDEIFEXEC', 'LongInt').SetInt( 8);
6343: ASSOCSTR_DDEAPPLICATION', 'LongInt').SetInt( 9);
6344: ASSOCSTR_DDETOPIC', 'LongInt').SetInt( 10);
6345: ASSOCSTR_INFOTIP', 'LongInt').SetInt( 11);
6346: ASSOCSTR_MAX', 'LongInt').SetInt( 12);
6347: ASSOCSTR', 'DWORD
6348: ASSOCKEY_SHELLEXECCLASS', 'LongInt').SetInt( 1);
6349: ASSOCKEY_APP', 'LongInt').SetInt( 2);
6350: ASSOCKEY_CLASS', 'LongInt').SetInt( 3);
6351: ASSOCKEY_BASECLASS', 'LongInt').SetInt( 4);
6352: ASSOCKEY_MAX', 'LongInt').SetInt( 5);
6353: ASSOCKEY', 'DWORD
6354: ASSOCDATA_MSIDESCRIPTOR', 'LongInt').SetInt( 1);
6355: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt').SetInt( 2);
6356: ASSOCDATA_QUERYCLASSSTORE', 'LongInt').SetInt( 3);
6357: ASSOCDATA_HASPERUSERASSOC', 'LongInt').SetInt( 4);
6358: ASSOCDATA_MAX', 'LongInt').SetInt( 5);
6359: ASSOCDATA', 'DWORD
6360: ASSOCENUM_NONE', 'LongInt').SetInt( 0);
6361: ASSOCENUM', 'DWORD
6362: SID_IQueryAssociations', 'String').SetString( '{c46ca590-3c3f-11d2-bee6-0000f805ca57}');
6363: SHACF_DEFAULT', 'LongWord').SetUInt( $00000000);
6364: SHACF_FILESYSTEM', 'LongWord').SetUInt( $00000001);
6365: SHACF_URLHISTORY', 'LongWord').SetUInt( $00000002);
6366: SHACF_URLMRU', 'LongWord').SetUInt( $00000004);
6367: SHACF_USETAB', 'LongWord').SetUInt( $00000008);
6368: SHACF_FILESYS_ONLY', 'LongWord').SetUInt( $00000010);
6369: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord').SetUInt( $10000000);
6370: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord').SetUInt( $20000000);
6371: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord').SetUInt( $40000000);
6372: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord').SetUInt( DWORD ( $80000000 ));
6373: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6374: Procedure SHSetThreadRef( punk : IUnknown)
6375: Procedure SHGetThreadRef( out ppunk : IUnknown)
6376: CTF_INSIST', 'LongWord').SetUInt( $00000001);
6377: CTF_THREAD_REF', 'LongWord').SetUInt( $00000002);
6378: CTF_PROCESS_REF', 'LongWord').SetUInt( $00000004);
6379: CTF_COINIT', 'LongWord').SetUInt( $00000008);
6380: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6381: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD)
6382: Function ColorHLSToRGB( wHue, wLuminance, wSaturation : WORD) : TColorRef
6383: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean) : TColorRef
6384: Function GetSysColorBrush( nIndex : Integer) : HBRUSH
6385: Function DrawFocusRect( hdc : HDC; const lprc : TRect) : BOOL
6386: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH) : Integer
6387: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH) : Integer
6388: Function InvertRect( hdc : HDC; const lprc : TRect) : BOOL
6389: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer) : BOOL
6390: Function SetRectEmpty( var lprc : TRect) : BOOL
6391: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect) : BOOL
6392: Function InflateRect( var lprc : TRect; dx, dy : Integer) : BOOL
6393: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect) : BOOL
6394: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect) : BOOL
6395:
6396: Function InitializeFlatSB( hWnd : HWND) : Bool
6397: Procedure UninitializeFlatSB( hWnd : HWND)
6398: Function FlatSB_GetScrollProp( p1 : HWND; propIndex : Integer; p3 : PInteger) : Bool
6399: Function FlatSB_SetScrollProp( p1 : HWND; index : Integer; newValue : Integer; p4 : Bool) : Bool
6400: Function GET_APPCOMMAND_LPARAM( lParam : Integer) : Word //of JvWin32
6401: Function GET_DEVICE_LPARAM( lParam : Integer) : Word
6402: Function GET_MOUSEORKEY_LPARAM( lParam : Integer) : Integer
6403: Function GET_FLAGS_LPARAM( lParam : Integer) : Word
6404: Function GET_KEYSTATE_LPARAM( lParam : Integer) : Word
6405:
6406:
6407: // ***** 204 unit uPSI_ShellAPI;
6408: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT) : UINT
6409: Function DragQueryPoint( Drop : HDROP; var Point : TPoint) : BOOL
6410: Procedure DragFinish( Drop : HDROP)
6411: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL)
6412: Function ShellExecute( hWnd : HWND; Operation, FileName, Parameters, Directory : PChar; ShowCmd : Integer) : HINST
6413: Function FindExecutable( FileName, Directory : PChar; Result : PChar) : HINST
6414: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON) : Integer
6415: Function DuplicateIcon( hInst : HINST; Icon : HICON) : HICON
6416: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word) : HICON
6417: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT) : HICON
6418: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData) : UINT
6419: Function DoEnvironmentSubst( szString : PChar; cbString : UINT) : DWORD
6420: Function ExtractIconEx( lpszFile : PChar; nIconIndex : Int; var phiconSmall : HICON; nIcons : UINT) : UINT;
6421: Procedure SHFreeNameMappings( hNameMappings : THandle)
6422:
6423: DLLVER_PLATFORM_WINDOWS', 'LongWord').SetUInt( $00000001);
6424: DLLVER_PLATFORM_NT', 'LongWord').SetUInt( $00000002);
6425: DLLVER_MAJOR_MASK', 'LongWord').SetUInt( Int64 ( $FFFF000000000000 ));
6426: DLLVER_MINOR_MASK', 'LongWord').SetUInt( Int64 ( $0000FFFF00000000 ));
6427: DLLVER_BUILD_MASK', 'LongWord').SetUInt( Int64 ( $00000000FFFF0000 ));

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6428: DLLVER_QFE_MASK', 'LongWord').SetUInt( Int64 ( $000000000000FFFF ));
6429: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word) : Int64
6430: Function SimpleXMLEncode( const S : string) : string
6431: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean)
6432: Function XMLEncode( const S : string) : string
6433: Function XMLDecode( const S : string) : string
6434: Function EntityEncode( const S : string) : string
6435: Function EntityDecode( const S : string) : string
6436:
6437: procedure RIRegister_CPort_Routines(S: TPSExec);
6438: Procedure EnumComPorts( Ports : TStringList)
6439: Procedure ListComPorts( Ports : TStringList)
6440: Procedure ComPorts( Ports : TStringList) //Alias to Arduino
6441: Function GetComPorts: TStringList;
6442: Function StrToBaudRate( Str : string) : TBaudRate
6443: Function StrToStopBits( Str : string) : TStopBits
6444: Function StrToDataBits( Str : string) : TDataBits
6445: Function StrToParity( Str : string) : TParityBits
6446: Function StrToFlowControl( Str : string) : TFlowControl
6447: Function BaudRateToStr( BaudRate : TBaudRate) : string
6448: Function StopBitsToStr( StopBits : TStopBits) : string
6449: Function DataBitsToStr( DataBits : TDataBits) : string
6450: Function ParityToStr( Parity : TParityBits) : string
6451: Function FlowControlToStr( FlowControl : TFlowControl) : string
6452: Function ComErrorsToStr( Errors : TComErrors) : string
6453:
6454: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wParamFilterMin, wParamFilterMax : UInt) : BOOL
6455: Function DispatchMessage( const lpMsg : TMsg) : Longint
6456: Function TranslateMessage( const lpMsg : TMsg) : BOOL
6457: Function SetMessageQueue( cMessagesMax : Integer) : BOOL
6458: Function PeekMessage( var lpMsg: TMsg; hWnd: HWND; wParamFilterMin, wParamFilterMax, wRemoveMsg: UInt): BOOL
6459: Function GetMessagePos : DWORD
6460: Function GetMessageTime : Longint
6461: Function GetMessageExtraInfo : Longint
6462: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean) : string
6463: Procedure JAddToRecentDocs( const Filename : string)
6464: Procedure ClearRecentDocs
6465: Function ExtractIconFromFile( FileName : string; Index : Integer) : HICON
6466: Function CreateShellLink( const AppName, Desc : string; Dest : string) : string
6467: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo)
6468: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo)
6469: Function RecycleFile( FileToRecycle : string) : Boolean
6470: Function JCopyFile( FromFile, ToDir : string) : Boolean
6471: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType) : UInt
6472: Function ShellObjectTypeConstToEnum( ShellObjectType : UInt) : TShellObjectType
6473: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize :
        DWORD; var pcbBytesNeeded : DWORD) : BOOL
6474: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize :
        DWORD; var pcbBytesNeeded : DWORD) : BOOL
6475: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize :
        DWORD; var pcbBytesNeeded : DWORD) : BOOL
6476: Function EnumServicesStatusExA( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD;
        dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned,
        lpResumeHandle : DWORD; pszGroupName : LP
6477: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD;
        dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned,
        lpResumeHandle : DWORD; pszGroupNam
6478: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD;
        dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned,
        lpResumeHandle : DWORD; pszGroupName
6479: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR) : BOOL
6480:
6481: ***** unit uPSI_JclPeImage;
6482:
6483: Function IsValidPeFile( const FileName : TFileName) : Boolean
6484: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders) : Boolean
6485: Function PeCreateNameHintTable( const FileName : TFileName) : Boolean
6486: Function PeRebaseImage( const ImageName : TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize :
        DWORD) : TJclRebaseImageInfo
6487: Function PeVerifyChecksum( const FileName : TFileName) : Boolean
6488: Function PeClearChecksum( const FileName : TFileName) : Boolean
6489: Function PeUpdateChecksum( const FileName : TFileName) : Boolean
6490: Function PeDoesExportFunction( const FileName : TFileName; const
        FuncName : string; Options : TJclSmartCompOptions) : Bool;
6491: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var
        ForwardedName : string; Options : TJclSmartCompOptions) : Boolean
6492: Function PeIsExportFunctionForwarded( const FileName : TFileName; const
        FunctionName : string; Options : TJclSmartCompOptions) : Bool
6493: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName
        : string; Options : TJclSmartCompOptions) : Boolean
6494: Function PeDoesImportLibrary( const FileName : TFileName; const
        LibraryName : string; Recursive : Boolean) : Boolean;
6495: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStringList; Recursive :
        Boolean; FullPathName : Boolean) : Boolean
6496: Function PeImportedFunctions( const FileName : TFileName; const FunctionsList : TStringList; const
        LibraryName : string; IncludeLibNames : Boolean) : Boolean
6497: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStringList) : Boolean
6498: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStringList) : Boolean
6499: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStringList) : Boolean

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6500: Function PeResourceKindNames(const FileN:TFileName;ResourceType:TJclPeResourceKind;const
NamesList:TStrings):Bool
6501: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings) : Boolean
6502: Function PeBorDependedPackages(const FileName:TFileName;PackagesList:TStrings;FullPathName,
Descript:Bool):Bool;
6503: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings) : Boolean;
6504: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings) : Boolean;
6505: Function PeCreateRequiredImportList(const FileName: TFileName; RequiredImportsList: TStrings): Boolean;
6506: //Function PeMapImgNtHeaders( const BaseAddress : Pointer) : PImageNtHeaders
6507: //Function PeMapImgLibraryName( const BaseAddress : Pointer) : string
6508: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders) : PImageSectionHeader
6509: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string) :
PImageSectionHeader
6510: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6511: //Function PeMapImgResolvePackageThunk( Address : Pointer) : Pointer
6512: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):
____Pointer;
6513: SIRegister_TJclPeSectionStream(CL);
6514: SIRegister_TJclPeMapImgHookItem(CL);
6515: SIRegister_TJclPeMapImgHooks(CL);
6516: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer;var
NtHeaders:TImageNtHeaders):Boolean
6517: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6518: Type TJclBorUmSymbolKind','(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6519: TJclBorUmSymbolModifier','( smQualified, smLinkProc )
6520: TJclBorUmSymbolModifiers',' 'set of TJclBorUmSymbolModifier
6521: TJclBorUmDescription',' 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6522: TJclBorUmResult',' ( urOk, urNotMangled, urMicrosoft, urError )
6523: TJclPeUmResult',' ( umNotMangled, umBorland, umMicrosoft )
6524: Function PeBorUnmangleName( const Name : string; var Unmangled : string; var Description :
TJclBorUmDescription; var BasePos : Integer) : TJclBorUmResult;
6525: Function PeBorUnmangleName1(const Name:string;var Unmangled:string;var
Descript:TJclBorUmDescription):TJclBorUmResult;
6526: Function PeBorUnmangleName2( const Name : string; var Unmangled : string) : TJclBorUmResult;
6527: Function PeBorUnmangleName3( const Name : string) : string;
6528: Function PeIsNameMangled( const Name : string) : TJclPeUmResult
6529: Function PeUnmangleName( const Name : string; var Unmangled : string) : TJclPeUmResult
6530:
6531:
6532: //***** SysTools uPSI_StSystem; *****
6533: Function StCopyFile( const SrcPath, DestPath : AnsiString) : Cardinal
6534: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString) : AnsiString
6535: Function DeleteVolumeLabel( Drive : Char) : Cardinal
6536: //Procedure EnumerateDirectories(const
StartDir:AnsiString;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6537: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
IncludeItem:TIncludeItemFunc);
6538: Function FileHandlesLeft( MaxHandles : Cardinal) : Cardinal
6539: Function FileMatchesMask( const FileName, FileMask : AnsiString) : Boolean
6540: Function FileTimeToStDateTime( FileTime : LongInt) : TStDateTimeRec
6541: Function FindNthSlash( const Path : AnsiString; n : Integer) : Integer
6542: Function FlushOsBuffers( Handle : Integer) : Boolean
6543: Function GetCurrentUser : AnsiString
6544: Function GetDiskClass( Drive : Char) : DiskClass
6545: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,
SectorsPerCluster:Cardinal):Bool;
6546: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var
DiskSize:Double):Bool;
6547: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var
DiskSize:Comp):Boolean;
6548: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6549: Function getDiskSpace2(const path: String; index: integer): int64;
6550: Function GetFileCreateDate( const FileName : AnsiString) : TDateTime
6551: Function StGetFileLastAccess( const FileName : AnsiString) : TDateTime
6552: Function GetFileLastModify( const FileName : AnsiString) : TDateTime
6553: Function GetHomeFolder( aForceSlash : Boolean) : AnsiString
6554: Function GetLongPath( const APath : AnsiString) : AnsiString
6555: Function GetMachineName : AnsiString
6556: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType) : Cardinal
6557: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean) : AnsiString
6558: Function GetShortPath( const APath : AnsiString) : AnsiString
6559: Function GetSystemFolder( aForceSlash : Boolean) : AnsiString
6560: Function GetTempFolder( aForceSlash : boolean) : AnsiString
6561: Function StGetWindowsFolder( aForceSlash : boolean) : AnsiString
6562: Function GetWorkingFolder( aForceSlash : boolean) : AnsiString
6563: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer) : TStDateTimeRec
6564: Function StIsDirectory( const DirName : AnsiString) : Boolean
6565: Function IsDirectoryEmpty( const S : AnsiString) : Integer
6566: Function IsDriveReady( Drive : Char) : Boolean
6567: Function IsFile( const FileName : AnsiString) : Boolean
6568: Function IsFileArchive( const S : AnsiString) : Integer
6569: Function IsFileHidden( const S : AnsiString) : Integer
6570: Function IsFileReadOnly( const S : AnsiString) : Integer
6571: Function IsFileSystem( const S : AnsiString) : Integer
6572: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer) : TStDateTimeRec
6573: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char) : Cardinal
6574: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer) : Boolean
6575: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType) : Cardinal
6576: Procedure SplitPath( const APath : AnsiString; Parts : TStrings)

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6577: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt
6578: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec ) : Longint
6579: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec
6580: Function ValidDrive( Drive : Char ) : Boolean
6581: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal
6582:
6583: //*****unit uPSI_JellANMan;*****
6584: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
const PasswordNeverExpires : Boolean ) : Boolean
6585: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
const PasswordNeverExpires : Boolean ) : Boolean
6586: Function DeleteAccount( const Servername, Username : string ) : Boolean
6587: Function DeleteLocalAccount( Username : string ) : Boolean
6588: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6589: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6590: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6591: Function GetLocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6592: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6593: Function LocalGroupExists( const Group : string ) : Boolean
6594: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6595: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6596: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6597: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6598: Function IsLocalAccount( const AccountName : string ) : Boolean
6599: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6600: Function GetRandomString( NumChar : cardinal ) : string
6601:
6602: //*****unit uPSI_CUtils;*****
6603: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )
6604: Function cIsWinNT : boolean
6605: Procedure cFilesFromWildcard(Directory,Mask : string;var Files:TStringList;Subdirs,ShowDirs,
Multitasking:Boolean;
6606: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6607: Function cRunAndGetOutput( Cmd,WorkDir:string; ErrFunc:TErrFunc; LineOutputFunc:TLineOutputFunc;
CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean ) : string
6608: Function cGetShortName( FileName : string ) : string
6609: Procedure cShowError( Msg : String )
6610: Function cCommaStrToStr( s : string; formatstr : string ) : string
6611: Function cIncludeQuoteIfSpaces( s : string ) : string
6612: Function cIncludeQuoteIfNeeded( s : string ) : string
6613: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6614: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6615: Function cBuildFilter( var value : string; const FLTStyle : TFILTERSET ) : boolean;
6616: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6617: Function cCodeInstoStr( s : string ) : string
6618: Function cStrtoCodeIns( s : string ) : string
6619: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6620: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6621: Procedure cStrToPoint( var pt : TPoint; value : string )
6622: Function cPointtoStr( const pt : TPoint ) : string
6623: Function cListtoStr( const List : TStrings ) : string
6624: Function ListtoStr( const List : TStrings ) : string
6625: Procedure StrtoList( s : string; const List : TStrings; const delimiter : char )
6626: Procedure cStrtoList( s : string; const List : TStrings; const delimiter : char )
6627: Function cGetFileType( const FileName : string ) : TUnitType
6628: Function cGetExTyp( const FileName : string ) : TExUnitType
6629: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6630: Function cExpandFileto( const FileName : string; const BasePath : string ) : string
6631: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6632: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6633: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6634: Function cGenMakePath( FileName : String ) : String;
6635: Function cGenMakePath2( FileName : String ) : String
6636: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean ) : String;
6637: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6638: Function cCalcMod( Count : Integer ) : Integer
6639: Function cGetVersionString( FileName : string ) : string
6640: Function cCheckChangeDir( var Dir : string ) : boolean
6641: Function cGetAssociatedProgram(const Extension:string; var Filename,Description: string):boolean
6642: Function cIsNumeric( s : string ) : boolean
6643: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6644: Function AttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6645: Function cGetFileType( const FileName : string ) : TUnitType
6646: Function Atoi(const aStr: string): integer
6647: Function Itoa(const aint: integer): string
6648:
6649:
6650: procedure SIRegister_cHTTPUtils(CL: TPSPascalCompiler);
6651: begin
6652:   FindClass('TOBJECT'),'EHTTP
6653:   FindClass('TOBJECT'),'EHTTPParser
6654:   //AnsiCharSet', 'set of AnsiChar
6655:   AnsiStringArray', 'array of AnsiString
6656:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6657:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6658:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH
6659:   +TTPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6660:   +CustomMinVersion : Integer; end
6661:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'

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6662: + 'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6663: + 'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6664: + 'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6665: + 'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6666: + 'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6667: + 'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges,'
6668: + ' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSinc'
6669: + 'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6670: + 'nection, hntOrigin, hntKeepAlive )
6671: THTTTPHeaderName', 'record Value : THTTTPHeaderNameEnum; Custom: AnsiString; end
6672: THTTTPCustomHeader', 'record FieldName : AnsiString; FieldValue : '
6673: + ' AnsiString; end
6674: //PHTTTPCustomHeader', '^THTTTPCustomHeader // will not work
6675: THTTTPContentLengthEnum', '( hcltNone, hcltByteCount )
6676: THTTTPContentLength', 'record Value : THTTTPContentLengthEnum; ByteCount: Int64; end
6677: //PHTTTPContentLength', '^THTTTPContentLength // will not work
6678: THTTTPContentTypeMajor', '( hctmCustom, hctmText, hctmImage )
6679: THTTTPContentTypeEnum', '( hctNone, hctCustomParts, hctCustomStri'
6680: + 'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6681: + 'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6682: + 'cationJSON, hctApplicationOctetStream, hctApplicationJavaScript, hctApplic'
6683: + 'ationCustom, hctAudioCustom, hctVideoCustom )
6684: THTTTPContentType', 'record Value : THTTTPContentTypeEnum; CustomM'
6685: + 'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray;'
6686: + ' CustomStr : AnsiString; end
6687: THTTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )
6688: THTTTPDateField', 'record Value : THTTTPDateFieldEnum; DayOfWeek : '
6689: + ' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6690: + 'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6691: + 'String; DateTime : TDateTime; Custom : AnsiString; end
6692: THTTTPTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )
6693: THTTTPTransferEncoding', 'record Value : THTTTPTransferEncodingEnum'
6694: + 'm; Custom : AnsiString; end
6695: THTTTPConnectionFieldEnum', '( hcfNone, hcfCustom, hcfClose, hcfKeepAlive )
6696: THTTTPConnectionField', 'record Value : THTTTPConnectionFieldEnum;'
6697: + ' Custom : AnsiString; end
6698: THTTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )
6699: THTTTPAgeField', 'record Value : THTTTPAgeFieldEnum; Age : Int64; Custom: AnsiString; end
6700: THTTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )
6701: THTTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6702: + ', hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )
6703: THTTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6704: + ', hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6705: + 'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )
6706: THTTTPCacheControlField', 'record Value : THTTTPCacheControlFieldEnum; end
6707: THTTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6708: + 'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )
6709: THTTTPContentEncoding', 'record Value: THTTTPContentEncodingEnum; Custom: AnsiString; end;
6710: THTTTPContentEncodingFieldEnum', '( hcefNone, hcefList )
6711: THTTTPContentEncodingField', 'record Value : THTTTPContentEncoding'
6712: + 'FieldEnum; List : array of THTTTPContentEncoding; end
6713: THTTTPRetryAfterFieldEnum', '( hrafNone, hrafCustom, harfDate, harfSeconds )
6714: THTTTPRetryAfterField', 'record Value : THTTTPRetryAfterFieldEnum;'
6715: + ' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6716: THTTTPContentRangeFieldEnum', '( hcrfNone, hcrfCustom, hcrfByteRange )
6717: THTTTPContentRangeField', 'record Value : THTTTPContentRangeFieldE'
6718: + 'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6719: THTTTPSetCookieFieldEnum', '( hscNone, hscDecoded, hscCustom )
6720: THTTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6721: THTTTPSetCookieCustomFieldArray', 'array of THTTTPSetCookieCustomField
6722: THTTTPSetCookieField', 'record Value : THTTTPSetCookieFieldEnum; D'
6723: + 'omain : AnsiString; Path : AnsiString; Expires : THTTTPDateField; MaxAge : '
6724: + 'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTTPSetCookie'
6725: + 'CustomFieldArray; Custom : AnsiString; end
6726: //PHTTTPSetCookieField', '^THTTTPSetCookieField // will not work
6727: THTTTPSetCookieFieldArray', 'array of THTTTPSetCookieField
6728: THTTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )
6729: THTTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6730: //PHTTTPCookieFieldEntry', '^THTTTPCookieFieldEntry // will not work
6731: THTTTPCookieFieldEntryArray', 'array of THTTTPCookieFieldEntry
6732: THTTTPCookieField', 'record Value : THTTTPCookieFieldEnum; Entries'
6733: + ' : THTTTPCookieFieldEntryArray; Custom : AnsiString; end
6734: THTTTPCommonHeaders', 'record TransferEncoding : THTTTPTransferEnc'
6735: + 'oding; ContentType : THTTTPContentType; ContentLength : THTTTPContentLength;'
6736: + ' Connection : THTTTPConnectionField; ProxyConnection : THTTTPConnectionField'
6737: + '; Date : THTTTPDateField; ContentEncoding : THTTTPContentEncodingField; end
6738: THTTTPCustomHeaders', 'array of THTTTPCustomHeader
6739: //THTTTPFixedHeaders', 'array[THTTTPHeaderNameEnum] of AnsiString
6740: THTTTPFixedHeaders', 'array[0..42] of AnsiString
6741: THTTTPMethodEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC'
6742: + 'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )
6743: THTTTPMethod', 'record Value : THTTTPMethodEnum; Custom : AnsiString; end
6744: THTTTPRequestStartLine', 'record Method: THTTTPMethod; URI: AnsiString; Version: THTTTPVersion; end
6745: THTTTPRequestHeader', 'record CommonHeaders : THTTTPCommonHeaders;'
6746: + ' FixedHeaders : THTTTPFixedHeaders; CustomHeaders : THTTTPCustomHeaders; Coo'
6747: + 'kie : THTTTPCookieField; IfModifiedSince: THTTTPDateField; IfUnmodifiedSince: THTTTPDateField; end
6748: //PHTTTPRequestHeader', '^THTTTPRequestHeader // will not work
6749: THTTTPRequest', 'record StartLine : THTTTPRequestStartLine; Header'
6750: + ' : THTTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end

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6751:   THTTPResponseStartLineMessage', '( hslmNone, hslmCustom, hslmOK)
6752:   THTTPResponseStartLine', 'record Version : THTTPVersion; Code : '
6753:   + 'Integer; Msg : THTTPResponseStartLineMessage; CustomMsg : AnsiString; end
6754:   THTTPResponseHeader', 'record CommonHeaders : THTTPCommonHeaders'
6755:   + 'FixedHeaders : THTTFFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co'
6756:   + 'okies : THTTPSetCookieFieldArray; Expires : THTTPOdateField; LastModified : '
6757:   + 'THTTPOdateField; Age : THTTPOageField; end
6758:   //PHTTPOResponseHeader', 'THTTPOResponseHeader // will not work
6759:   THTTPResponse', 'record StartLine : THTTPResponseStartLine; Head'
6760:   + 'er : THTTPOResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6761:   Function HTTPMessageHasContent( const H : THTTPCommonHeaders ) : Boolean
6762:   Procedure InitHTTPRequest( var A : THTTPRequest)
6763:   Procedure InitHTTPResponse( var A : THTTPResponse)
6764:   Procedure ClearHTTPVersion( var A : THTTPVersion)
6765:   Procedure ClearHTTPContentLength( var A : THTTPContentLength)
6766:   Procedure ClearHTTPContentType( var A : THTTPContentType)
6767:   Procedure ClearHTTPDateField( var A : THTTPOdateField)
6768:   Procedure ClearHTTPTransferEncoding( var A : THTTPTransferEncoding)
6769:   Procedure ClearHTTPConnectionField( var A : THTTPConnectionField)
6770:   Procedure ClearHTTPOageField( var A : THTTPOageField)
6771:   Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding)
6772:   Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField)
6773:   Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField)
6774:   Procedure ClearHTTPSetCookieField( var A : THTTPSetCookieField)
6775:   Procedure ClearHTTPCommonHeaders( var A : THTTPCommonHeaders)
6776:   //Procedure ClearHTTFFixedHeaders( var A : THTTFFixedHeaders)
6777:   Procedure ClearHTTPCustomHeaders( var A : THTTPOCustomHeaders)
6778:   Procedure ClearHTTPOCookieField( var A : THTTPOCookieField)
6779:   Procedure ClearHTTPMethod( var A : THTTPOMethod)
6780:   Procedure ClearHTTPRequestStartLine( var A : THTTPRequestStartLine)
6781:   Procedure ClearHTTPRequestHeader( var A : THTTPRequestHeader)
6782:   Procedure ClearHTTPRequest( var A : THTTPRequest)
6783:   Procedure ClearHTTPResponseStartLine( var A : THTTPResponseStartLine)
6784:   Procedure ClearHTTPResponseHeader( var A : THTTPResponseHeader)
6785:   Procedure ClearHTTPResponse( var A : THTTPResponse)
6786:   THTTPOStringOption', '( hsoNone )
6787:   THTTPOStringOptions', 'set of THTTPOStringOption
6788:   FindClass( 'TOBJECT', 'TAnsiStringBuilder
6789:
6790:   Procedure BuildStrHTTPVersion(const A:THTTPVersion; const B:TAnsiStringBuilder;const
P:THTTPOStringOptions);
6791:   Procedure BuildStrHTTPContentLengthValue( const A : THTTPContentLength; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6792:   Procedure BuildStrHTTPContentLength( const A : THTTPContentLength; const B : TAnsiStringBuilder; const P
: THTTPOStringOptions)
6793:   Procedure BuildStrHTTPContentTypeValue( const A : THTTPContentType; const B : TAnsiStringBuilder; const P
: THTTPOStringOptions)
6794:   Procedure BuildStrHTTPContentType(const A:THTTPContentType;const B:TAnsiStringBuilder; const
P:THTTPOStringOptions)
6795:   Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
B : TAnsiStringBuilder; const P : THTTPOStringOptions)
6796:   Procedure BuildStrHTTPOdateFieldValue( const A : THTTPOdateField; const B : TAnsiStringBuilder; const P :
THTTPOStringOptions)
6797:   Procedure BuildStrHTTPOdateField(const A:THTTPOdateField;const B:TAnsiStringBuilder;const
P:THTTPOStringOptions);
6798:   Procedure BuildStrHTTPTransferEncodingValue( const A : THTTPTransferEncoding; const B :
TAnsiStringBuilder; const P : THTTPOStringOptions)
6799:   Procedure BuildStrHTTPTransferEncoding( const A : THTTPTransferEncoding; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6800:   Procedure BuildStrHTTPContentRangeField( const A : THTTPContentRangeField; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6801:   Procedure BuildStrHTTPConnectionFieldValue( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6802:   Procedure BuildStrHTTPConnectionField( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6803:   Procedure BuildStrHTTPOageField(const A:THTTPOageField;const B:TAnsiStringBuilder;const
P:THTTPOStringOptions);
6804:   Procedure BuildStrHTTPContentEncoding( const A : THTTPContentEncoding; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6805:   Procedure BuildStrHTTPContentEncodingField(const A:THTTPContentEncodingField;const
B:TAnsiStringBuilder;const P:THTTPOStringOptions)
6806:   Procedure BuildStrHTTPProxyConnectionField(const A : THTTPConnectionField; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6807:   Procedure BuildStrHTTPCommonHeaders( const A : THTTPCommonHeaders; const B : TAnsiStringBuilder; const P
: THTTPOStringOptions)
6808:   Procedure BuildStrHTTFFixedHeaders(const A:THTTFFixedHeaders;const B:TAnsiStrBuilder;const
P:THTTPOStringOptions)
6809:   Procedure BuildStrHTTPCustomHeaders( const A : THTTPOCustomHeaders; const B : TAnsiStringBuilder; const P
: THTTPOStringOptions)
6810:   Procedure BuildStrHTTPSetCookieFieldValue( const A : THTTPSetCookieField; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)
6811:   Procedure BuildStrHTTPOCookieFieldValue( const A : THTTPOCookieField; const B : TAnsiStringBuilder; const P
: THTTPOStringOptions)
6812:   Procedure BuildStrHTTPOCookieField(const A:THTTPOCookieField;const B:TAnsiStringBuilder;const
P:THTTPOStringOptions);
6813:   Procedure BuildStrHTTPMethod( const A : THTTPOMethod; const B : TAnsiStringBuilder; const P :
THTTPOStringOptions)
6814:   Procedure BuildStrHTTPRequestStartLine( const A : THTTPRequestStartLine; const B : TAnsiStringBuilder;
const P : THTTPOStringOptions)

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6815: Procedure BuildStrHTTPRequestHeader(const A:THTTPRequestHeader;const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6816: Procedure BuildStrHTTPRequest( const A : THTTPRequest; const B : TAnsiStringBuilder; const P :
THTTPStringOptions)
6817: Procedure BuildStrHTTPResponseCookieFieldArray( const A : THTTPSetCookieFieldArray; const B :
TAnsiStringBuilder; const P : THTTPStringOptions)
6818: Procedure BuildStrHTTPResponseStartLine(const A:THTTPResponseStartLine;const B:TAnsiStrBldr;const P
THTTPStrOptions);
6819: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const
P:THTTPStringOptions);
6820: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const
P:THTTPStringOptions);
6821: Function HTTPContentTypeValueToStr( const A : THTTPContentType) : AnsiString
6822: Function HTTPSetCookieFieldValueToStr( const A : THTTPSetCookieField) : AnsiString
6823: Function HTTPCookieFieldValueToStr( const A : THTTPCookieField) : AnsiString
6824: Function HTTPMethodToStr( const A : THTTPMethod) : AnsiString
6825: Function HTTPRequestToStr( const A : THTTPRequest) : AnsiString
6826: Function HTTPResponseToStr( const A : THTTPResponse) : AnsiString
6827: Procedure PrepareCookie(var A:THTTPCookieField;const B:THTTPSetCookieFieldArray;const
Domain:AnsiString;const Secure:Bool;
6828: THTTTParserHeaderParseFunc', 'Function ( const HeaderName : THTT
+ 'PHeaderNameEnum; const HeaderPtr : __Pointer) : Boolean
6830: SIRegister_THTTTParser(CL);
6831: FindClass('TOBJECT'),'THTTTPContentDecoder
6832: THTTTPContentDecoderProc', 'Procedure ( const Sender : THTTTPContentDecoder)
6833: THTTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsize )
6834: THTTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
+ ' crcsContentCRLF, crcsTrailer, crcsFinished )
6836: THTTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTTPContentDecoder; const LogMsg : String)
6837: SIRegister_THTTTPContentDecoder(CL);
6838: THTTTPContentReaderMechanism', '( hcrnEvent, hcrnString, hcrnStream, hcrnFile )
6839: FindClass('TOBJECT'),'THTTTPContentReader
6840: THTTTPContentReaderProc', 'Procedure ( const Sender : THTTTPContentReader)
6841: THTTTPContentReaderLogEvent', 'Procedure(const Sender:THTTTPContentReader;const LogMsg:String;const
LogLevel:Int;
6842: SIRegister_THTTTPContentReader(CL);
6843: THTTTPContentWriterMechanism', '(hctmEvent, hctmString, hctmStream, hctmFile )
6844: FindClass('TOBJECT'),'THTTTPContentWriter
6845: THTTTPContentWriterLogEvent', 'Procedure (const Sender : THTTTPContentWriter;const LogMsg:AnsiString);
6846: SIRegister_THTTTPContentWriter(CL);
6847: Procedure SelfTestCHTTPUtils
6848: end;
6849:
6850: (*-----*)
6851: procedure SIRegister_cTLSUtils(CL: TPSPascalCompiler);
6852: begin
6853: 'TLSLibraryVersion', 'String').SetString( '1.00
6854: 'TLSError_None', 'LongInt').SetInt( 0);
6855: 'TLSError_InvalidBuffer', 'LongInt').SetInt( 1);
6856: 'TLSError_InvalidParameter', 'LongInt').SetInt( 2);
6857: 'TLSError_InvalidCertificate', 'LongInt').SetInt( 3);
6858: 'TLSError_InvalidState', 'LongInt').SetInt( 4);
6859: 'TLSError_DecodeError', 'LongInt').SetInt( 5);
6860: 'TLSError_BadProtocol', 'LongInt').SetInt( 6);
6861: Function TLSErrorMessage( const TLSError : Integer) : String
6862: SIRegister_ETLSError(CL);
6863: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6864: PTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6865: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion)
6866: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion)
6867: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion)
6868: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion)
6869: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion) : Boolean
6870: Function IsSSL2( const A : TTLSProtocolVersion) : Boolean
6871: Function IsSSL3( const A : TTLSProtocolVersion) : Boolean
6872: Function IsTLS10( const A : TTLSProtocolVersion) : Boolean
6873: Function IsTLS11( const A : TTLSProtocolVersion) : Boolean
6874: Function IsTLS12( const A : TTLSProtocolVersion) : Boolean
6875: Function IsTLS10OrLater( const A : TTLSProtocolVersion) : Boolean
6876: Function IsTLS11OrLater( const A : TTLSProtocolVersion) : Boolean
6877: Function IsTLS12OrLater( const A : TTLSProtocolVersion) : Boolean
6878: Function IsFutureTLSVersion( const A : TTLSProtocolVersion) : Boolean
6879: Function IsKnownTLSVersion( const A : TTLSProtocolVersion) : Boolean
6880: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion) : String
6881: Function TLSProtocolVersionName( const A : TTLSProtocolVersion) : String
6882: PTLSPRandom', '^TTLSRandom // will not work
6883: Procedure InitTLSPRandom( var Random : TTLSRandom)
6884: Function TLSPRandomToStr( const Random : TTLSRandom) : AnsiString
6885: 'TLSSessionIDMaxLen', 'LongInt').SetInt( 32);
6886: Procedure InitTLSSessionID( var SessionID : TTLSSessionID; const A : AnsiString)
6887: Function EncodeTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TTLSSessionID):Int;
6888: Function DecodeTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TTLSSessionID):Int;
6889: TTLSSignatureAndHashAlgorithm', 'record Hash : TTLSHashAlgorithm'
6890: + 'Signature : TTLSSignatureAlgorithm; end
6891: // PTLSSignatureAndHashAlgorithm', '^TTLSSignatureAndHashAlgorithm + 'will not work
6892: TTLSSignatureAndHashAlgorithmArray', 'array of TTLSSignatureAndHashAlgorithm
6893: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_
+ 'DSS, tlskeaDHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6894: TTLSMACAlgorithm', '( tlsmaNone, tlsmaNULL, tlsmaHMAC_MD5, tlsma

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6896:   +'HMAC_SHA1, tlsmaHMAC_SHA256, tlsmaHMAC_SHA384, tlsmaHMAC_SHA512 )
6897:   TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6898:   +'integer; Supported : Boolean; end
6899:   PTLSMacAlgorithmInfo', '^TTLSMacAlgorithmInfo // will not work
6900:   'TLS_MAC_MAXDIGESTSIZE', 'LongInt').SetInt( 64);
6901:   TTLSPRFAlgorithm', '( tlpshaSHA256 )
6902:   Function tlp_MD5( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6903:   Function tlp_SHA1( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6904:   Function tlp_SHA256( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6905:   Function tlp_SHA512( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6906:   Function tlp1OPRF( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6907:   Function tlp12PRF_SHA256( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6908:   Function tlp12PRF_SHA512( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6909:   Function TTLSPRF(const ProtoVersion:TTLSProtocolVersion;const Secret,ALabel,Seed:ASString;const
Size:Int):ASString;
6910:   Function tlp10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
Size:Integer):AnsiString
6911:   Function tlp12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6912:   Function tlp12SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6913:   Function TLSKeyBlock( const ProtocolVersion : TTLSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer) : AnsiString
6914:   Function tlp10MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6915:   Function tlp12SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6916:   Function tlp12SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
6917:   Function TLSPMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
ServerRandom:AnsiString) : AnsiString
6918:   TTLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6919:   +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6920:   +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
6921:   Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TTLSKeys)
6922:   Procedure GenerateFinalTLSKeys(const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TTLSKeys)
6923:   'TLS_PLAINTEXT_FRAGMENT_MAXSIZE', 'LongInt').SetInt( 16384 - 1);
6924:   'TLS_COMPRESSED_FRAGMENT_MAXSIZE', 'LongInt').SetInt( 16384 + 1024);
6925:   Procedure SelfTestcTLSUtils
6926:   end;
6927:
6928:   (*-----*)
6929:   procedure SIRegister_Reversi(CL: TPSPascalCompiler);
6930:   begin
6931:     sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
integer; disks : integer; mx : integer; my : integer; end
6932:     // pBoard', '^tBoard // will not work
6933:     Function rCalculateData( cc : byte; cx, cy : integer) : sPosData
6934:     Function rCheckMove( color : byte; cx, cy : integer) : integer
6935:     //Function rDoStep( data : pBoard) : word
6936:     Function winExecAndWait( const sAppPath : string; wVisible : word) : boolean
6937:   end;
6938:
6939:   procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
6940:   begin
6941:     Function InEditMode( ADataSet : TDataSet) : Boolean
6942:     Function CheckDataSource( ADataSource : TDataSource) : Boolean;
6943:     Function CheckDataSource1(ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
6944:     Function GetFieldText( AField : TField) : String
6945:   end;
6946:
6947:   procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
6948:   begin
6949:     TPrintMode', '( pmPrint, pmPreview, pmPageCount )
6950:     TMyPrintRange', '( prAll, prSelected )
6951:     TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
6952:     +'ded, ssDateTime, ssTime, ssCustom )
6953:     TSortDirection', '( sdAscending, sdDescending )
6954:     TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
6955:     TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integ'
6956:     +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
6957:     TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
6958:     TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
6959:     SIRegister_TSortOptions(CL);
6960:     SIRegister_TPrintOptions(CL);
6961:     TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
6962:     SIRegister_TSortedList(CL);
6963:     TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
6964:     TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
6965:     TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
6966:     TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
6967:     +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
6968:     SIRegister_TFontSetting(CL);
6969:     SIRegister_TFontList(CL);
6970:     AddTypeS(TFormatDrawCellEvent', 'Procedure ( Sender : TObject; Col, Row : '
6971:     +' integer; State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool);
6972:     TSetFilterEvent', 'Procedure ( ARows : TStringList; var Accept : Boolean)
6973:     TSearchEvent', 'Procedure ( ARows : TStringList; var Accept : Boolean)
6974:     TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
6975:     TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)

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6976: TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
6977: TEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
6978: TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer)
6979:   + 'r; var SortStyle : TSortStyle)
6980: TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow : '
6981:   + ' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
6982: SIRegister_TSortGrid(CL);
6983: Function ExtendedCompare( const Str1, Str2 : String) : Integer
6984: Function NormalCompare( const Str1, Str2 : String) : Integer
6985: Function DateTimeCompare( const Str1, Str2 : String) : Integer
6986: Function NumericCompare( const Str1, Str2 : String) : Integer
6987: Function TimeCompare( const Str1, Str2 : String) : Integer
6988: //Function Compare( Item1, Item2 : Pointer) : Integer
6989: end;
6990:
6991: ***** procedure Register_IB(CL: TPSPascalCompiler);
6992: Procedure IBAalloc( var P, OldSize, NewSize : Integer)
6993: Procedure IBError( ErrMess : TIBClientError; const Args : array of const)
6994: Procedure IBDataBaseError
6995: Function StatusVector : PISC_STATUS
6996: Function StatusVectorArray : PStatusVector
6997: Function CheckStatusVector( ErrorCodes : array of ISC_STATUS) : Boolean
6998: Function StatusVectorAsText : string
6999: Procedure SetIBDataBaseErrorMessage( Value : TIBDataBaseErrorMessage)
7000: Function GetIBDataBaseErrorMessage : TIBDataBaseErrorMessage
7001:
7002:
7003: //*****unit uPSI_BoldUtils;*****
7004: Function CharCount( c : char; const s : string) : integer
7005: Function BoldNamesEqual( const name1, name2 : string) : Boolean
7006: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
7007: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
7008: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string) : string
7009: Function BoldTrim( const S : string) : string
7010: Function BoldIsPrefix( const S, Prefix : string) : Boolean
7011: Function BoldStrEqual( P1, P2 : PChar; Len : integer) : Boolean
7012: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer) : Boolean
7013: Function BoldAnsiEqual( const S1, S2 : string) : Boolean
7014: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer) : Boolean
7015: Function BoldCaseIndependentPos( const Substr, S : string) : Integer
7016: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings)
7017: Function CapitalisedToSpaced( Capitalised : String) : String
7018: Function SpacedToCapitalised( Spaced : String) : String
7019: Function BooleanToString( BoolValue : Boolean) : String
7020: Function StringToBoolean( StrValue : String) : Boolean
7021: Function GetUpperLimitForMultiplicity( const Multiplicity : String) : Integer
7022: Function GetLowerLimitForMultiplicity( const Multiplicity : String) : Integer
7023: Function StringListToVarArray( List : TStringList) : variant
7024: Function IsLocalMachine( const Machinename : WideString) : Boolean
7025: Function GetComputerNameStr : string
7026: Function TimeStampComp( const Time1, Time2 : TTimeStamp) : Integer
7027: Function BoldStrToDateFmt(const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7028: Function BoldDateToStrFmt(const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7029: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7030: Function BoldParseFormattedDate(const value:String;const formats:array of string; var
Date:TDateTime):Boolean;
7031: Procedure EnsureTrailing( var Str : String; ch : char)
7032: Function BoldDirectoryExists( const Name : string) : Boolean
7033: Function BoldForceDirectories( Dir : string) : Boolean
7034: Function BoldRootRegistryKey : string
7035: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7036: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings) : Integer
7037: Function LogicalAnd( A, B : Integer) : Boolean
7038: record TByHandleFileInformation dwFileAttributes : DWORD; '
7039:   + 'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7040:   + ': TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSiz'
7041:   + 'eLow : DWORD; nNumberOfLinks : DWORD; nFileIndexHigh : DWORD; nFileIndexLow : DWORD; end
7042: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7043: Function IsFirstInstance : Boolean
7044: Procedure ActivateFirst( AString : PChar)
7045: Procedure ActivateFirstCommandLine
7046: function MakeAckPkt(const BlockNumber: Word):string;
7047: procedure SendError(UDPBase:TiUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string;
7048: procedure SendError(UDPClient: TiUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7049: procedure SendError(UDPBase: TiUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7050: procedure SendError(UDPClient: TiUDPClient; E: Exception); overload;
7051: function IdStrToWord(const Value: String): Word;
7052: function IdWordToStr(const Value: Word): WordStr;
7053: Function HasInstructionSet( const InstructionSet : TCPUIInstructionSet) : Boolean
7054: Function CPUFeatures : TCPUFeatures
7055:
7056:
7057: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7058: begin
7059:   AddTypeS('TXRTLBitIndex', 'Integer
7060: Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex) : Cardinal
7061: Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex) : Boolean
7062: Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7063: Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal

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7064: Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7065: Function XRTLSwapHiLo16( X : Word) : Word
7066: Function XRTLSwapHiLo32( X : Cardinal) : Cardinal
7067: Function XRTLSwapHiLo64( X : Int64) : Int64
7068: Function XRTLROL32( A, S : Cardinal) : Cardinal
7069: Function XRTLROL32( A, S : Cardinal) : Cardinal
7070: Function XRTLROL16( A : Word; S : Cardinal) : Word
7071: Function XRTLROL16( A : Word; S : Cardinal) : Word
7072: Function XRTLROL8( A : Byte; S : Cardinal) : Byte
7073: Function XRTLROL8( A : Byte; S : Cardinal) : Byte
7074: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)
7075: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7076: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer)
7077: Function XRTLPopulation( A : Cardinal) : Cardinal
7078: end;
7079:
7080: Function XRTLURLDecode( const ASrc : WideString) : WideString
7081: Function XRTLURLEncode( const ASrc : WideString) : WideString
7082: Function XRTLURINormalize( const AURI : WideString) : WideString
7083: Procedure XRTLURIParse(const AURI:Widestring;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
VPassword : WideString)
7084: Function XRTLExtractLongPathName(APath : string) : string;
7085:
7086: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7087: begin
7088:   AddTypeS('Int8', 'ShortInt
7089:   AddTypeS('Int16', 'SmallInt
7090:   AddTypeS('Int32', 'LongInt
7091:   AddTypeS('UInt8', 'Byte
7092:   AddTypeS('UInt16', 'Word
7093:   AddTypeS('UInt32', 'LongWord
7094:   AddTypeS('UInt64', 'Int64
7095:   AddTypeS('Word8', 'UInt8
7096:   AddTypeS('Word16', 'UInt16
7097:   AddTypeS('Word32', 'UInt32
7098:   AddTypeS('Word64', 'UInt64
7099:   AddTypeS('LargeInt', 'Int64
7100:   AddTypeS('NativeInt', 'Integer
7101:   AddTypeS('NativeUInt', 'Cardinal
7102:   Const('BitsPerByte','LongInt').SetInt( 8);
7103:   Const('BitsPerWord','LongInt').SetInt( 16);
7104:   Const('BitsPerLongWord','LongInt').SetInt( 32);
7105:   //Const('BitsPerCardinal','LongInt').SetInt( BytesPerCardinal * 8);
7106:   //Const('BitsPerNativeWord','LongInt').SetInt( BytesPerNativeWord * 8);
7107:   Function MinI( const A, B : Integer) : Integer
7108:   Function MaxI( const A, B : Integer) : Integer
7109:   Function MinC( const A, B : Cardinal) : Cardinal
7110:   Function MaxC( const A, B : Cardinal) : Cardinal
7111:   Function SumClipI( const A, I : Integer) : Integer
7112:   Function SumClipC( const A : Cardinal; const I : Integer) : Cardinal
7113:   Function InByteRange( const A : Int64) : Boolean
7114:   Function InWordRange( const A : Int64) : Boolean
7115:   Function InLongWordRange( const A : Int64) : Boolean
7116:   Function InShortIntRange( const A : Int64) : Boolean
7117:   Function InSmallIntRange( const A : Int64) : Boolean
7118:   Function InLongIntRange( const A : Int64) : Boolean
7119:   AddTypeS('Bool8', 'ByteBool
7120:   AddTypeS('Bool16', 'WordBool
7121:   AddTypeS('Bool32', 'LongBool
7122:   AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7123:   AddTypeS('TCompareResultSet', 'set of TCompareResult
7124:   Function ReverseCompareResult( const C : TCompareResult) : TCompareResult
7125:   Const('MinSingle','Single').setExtended( 1.5E-45);
7126:   Const('MaxSingle','Single').setExtended( 3.4E+38);
7127:   Const('MinDouble','Double').setExtended( 5.0E-324);
7128:   Const('MaxDouble','Double').setExtended( 1.7E+308);
7129:   Const('MinExtended','Extended').setExtended(3.4E-4932);
7130:   Const('MaxExtended','Extended').setExtended(1.1E+4932);
7131:   Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807);
7132:   Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807);
7133:   Function MinF( const A, B : Float) : Float
7134:   Function MaxF( const A, B : Float) : Float
7135:   Function ClipF( const Value : Float; const Low, High : Float) : Float
7136:   Function InSingleRange( const A : Float) : Boolean
7137:   Function InDoubleRange( const A : Float) : Boolean
7138:   Function InCurrencyRange( const A : Float) : Boolean;
7139:   Function InCurrencyRangeI( const A : Int64) : Boolean;
7140:   Function FloatExponentBase2( const A : Extended; var Exponent : Integer) : Boolean
7141:   Function FloatExponentBase10( const A : Extended; var Exponent : Integer) : Boolean
7142:   Function FloatIsInfinity( const A : Extended) : Boolean
7143:   Function FloatIsNaN( const A : Extended) : Boolean
7144:   Const('SingleCompareDelta','Extended').setExtended( 1.0E-34);
7145:   Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280);
7146:   Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400);
7147:   Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34);
7148:   Function FloatZero( const A : Float; const CompareDelta : Float) : Boolean
7149:   Function FloatOne( const A : Float; const CompareDelta : Float) : Boolean
7150:   Function FloatsEqual( const A, B : Float; const CompareDelta : Float) : Boolean
7151:   Function FloatsCompare( const A, B : Float; const CompareDelta : Float) : TCompareResult

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7152: Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5);
7153: Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13);
7154: Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17);
7155: Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10);
7156: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double) : Boolean
7157: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double): TCompareResult
7158: Function cClearBit( const Value, BitIndex : LongWord) : LongWord
7159: Function cSetBit( const Value, BitIndex : LongWord) : LongWord
7160: Function cIsBitSet( const Value, BitIndex : LongWord) : Boolean
7161: Function cToggleBit( const Value, BitIndex : LongWord) : LongWord
7162: Function cIsHighBitSet( const Value : LongWord) : Boolean
7163: Function SetBitScanForward( const Value : LongWord) : Integer;
7164: Function SetBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7165: Function SetBitScanReverse( const Value : LongWord) : Integer;
7166: Function SetBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7167: Function ClearBitScanForward( const Value : LongWord) : Integer;
7168: Function ClearBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7169: Function ClearBitScanReverse( const Value : LongWord) : Integer;
7170: Function ClearBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7171: Function cReverseBits( const Value : LongWord) : LongWord;
7172: Function cReverseBits1( const Value : LongWord; const BitCount : Integer) : LongWord;
7173: Function cSwapEndian( const Value : LongWord) : LongWord
7174: Function cTwosComplement( const Value : LongWord) : LongWord
7175: Function RotateLeftBits16( const Value : Word; const Bits : Byte) : Word
7176: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte) : LongWord
7177: Function RotateRightBits16( const Value : Word; const Bits : Byte) : Word
7178: Function RotateRightBits32( const Value : LongWord; const Bits : Byte) : LongWord
7179: Function cBitCount( const Value : LongWord) : LongWord
7180: Function cIsPowerOfTwo( const Value : LongWord) : Boolean
7181: Function LowBitMask( const HighBitIndex : LongWord) : LongWord
7182: Function HighBitMask( const LowBitIndex : LongWord) : LongWord
7183: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord) : LongWord
7184: Function SetBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7185: Function ClearBitRange(const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7186: Function ToggleBitRange(const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7187: Function IsBitRangeSet(const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7188: Function IsBitRangeClear(const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : Boolean
7189: // AddTypes('CharSet', 'set of AnsiChar
7190: AddTypeS('CharSet', 'set of Char //!!!
7191: AddTypeS('AnsiCharSet', 'TCharSet
7192: AddTypeS('ByteSet', 'set of Byte
7193: AddTypeS('AnsiChar', 'Char
7194: // Function AsCharSet( const C : array of AnsiChar) : CharSet
7195: Function AsByteSet( const C : array of Byte) : ByteSet
7196: Procedure ComplementChar( var C : CharSet; const Ch : Char)
7197: Procedure ClearCharSet( var C : CharSet)
7198: Procedure FillCharSet( var C : CharSet)
7199: Procedure ComplementCharSet( var C : CharSet)
7200: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7201: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet)
7202: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet)
7203: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet)
7204: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7205: Function IsSubSet( const A, B : CharSet) : Boolean
7206: Function IsEqual( const A, B : CharSet) : Boolean
7207: Function IsEmpty( const C : CharSet) : Boolean
7208: Function IsComplete( const C : CharSet) : Boolean
7209: Function cCharCount( const C : CharSet) : Integer
7210: Procedure ConvertCaseInsensitive( var C : CharSet)
7211: Function CaseInsensitiveCharSet( const C : CharSet) : CharSet
7212: Function IntRangeLength( const Low, High : Integer) : Int64
7213: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer) : Boolean
7214: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer) : Boolean
7215: Function IntRangeHasElement( const Low, High, Element : Integer) : Boolean
7216: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer) : Boolean
7217: Function IntRangeIncludeElementRange(var Low,High:Integer;const LowElement,HighElement:Integer):Boolean
7218: Function CardRangeLength( const Low, High : Cardinal) : Int64
7219: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7220: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7221: Function CardRangeHasElement( const Low, High, Element : Cardinal) : Boolean
7222: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal) : Boolean
7223: Function CardRangeIncludeElementRange(var Low,High:Card;const LowElement,HighElement:Card):Boolean;
7224: AddTypeS('UnicodeChar', 'WideChar
7225: Function Compare( const I1, I2 : Boolean) : TCompareResult;
7226: Function Compare1( const I1, I2 : Integer) : TCompareResult;
7227: Function Compare2( const I1, I2 : Int64) : TCompareResult;
7228: Function Compare3( const I1, I2 : Extended) : TCompareResult;
7229: Function CompareA( const I1, I2 : AnsiString) : TCompareResult
7230: Function CompareW( const I1, I2 : WideString) : TCompareResult
7231: Function cSgn( const A : LongInt) : Integer;
7232: Function cSgn1( const A : Int64) : Integer;
7233: Function cSgn2( const A : Extended) : Integer;
7234: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )
7235: Function AnsiCharToInt( const A : AnsiChar) : Integer
7236: Function WideCharToInt( const A : WideChar) : Integer
7237: Function CharToInt( const A : Char) : Integer
7238: Function IntToAnsiChar( const A : Integer) : AnsiChar
7239: Function IntToWideChar( const A : Integer) : WideChar
7240: Function IntToChar( const A : Integer) : Char

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7241: Function IsHexAnsiChar( const Ch : AnsiChar) : Boolean
7242: Function IsHexWideChar( const Ch : WideChar) : Boolean
7243: Function IsHexChar( const Ch : Char) : Boolean
7244: Function HexAnsiCharToInt( const A : AnsiChar) : Integer
7245: Function HexWideCharToInt( const A : WideChar) : Integer
7246: Function HexCharToInt( const A : Char) : Integer
7247: Function IntToUpperHexAnsiChar( const A : Integer) : AnsiChar
7248: Function IntToUpperHexWideChar( const A : Integer) : WideChar
7249: Function IntToUpperHexChar( const A : Integer) : Char
7250: Function IntToLowerHexAnsiChar( const A : Integer) : AnsiChar
7251: Function IntToLowerHexWideChar( const A : Integer) : WideChar
7252: Function IntToLowerHexChar( const A : Integer) : Char
7253: Function IntToStringA( const A : Int64) : AnsiString
7254: Function IntToStringW( const A : Int64) : WideString
7255: Function IntToString( const A : Int64) : String
7256: Function UIntToStringA( const A : NativeUInt) : AnsiString
7257: Function UIntToStringW( const A : NativeUInt) : WideString
7258: Function UIntToString( const A : NativeUInt) : String
7259: Function LongWordToStrA( const A : LongWord; const Digits : Integer) : AnsiString
7260: Function LongWordToStrW( const A : LongWord; const Digits : Integer) : WideString
7261: Function LongWordToStrU( const A : LongWord; const Digits : Integer) : UnicodeString
7262: Function LongWordToStr( const A : LongWord; const Digits : Integer) : String
7263: Function LongWordToHexA( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):AnsiString;
7264: Function LongWordToHexW( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):WideString;
7265: Function LongWordToHex( const A : LongWord; const Digits : Integer;const UpperCase:Boolean):String
7266: Function LongWordToOctA( const A : LongWord; const Digits : Integer) : AnsiString
7267: Function LongWordToOctW( const A : LongWord; const Digits : Integer) : WideString
7268: Function LongWordToOct( const A : LongWord; const Digits : Integer) : String
7269: Function LongWordToBinA( const A : LongWord; const Digits : Integer) : AnsiString
7270: Function LongWordToBinW( const A : LongWord; const Digits : Integer) : WideString
7271: Function LongWordToBin( const A : LongWord; const Digits : Integer) : String
7272: Function TryStringToInt64A( const S : AnsiString; out A : Int64) : Boolean
7273: Function TryStringToInt64W( const S : WideString; out A : Int64) : Boolean
7274: Function TryStringToInt64( const S : String; out A : Int64) : Boolean
7275: Function StringToInt64DefA( const S : AnsiString; const Default : Int64) : Int64
7276: Function StringToInt64DefW( const S : WideString; const Default : Int64) : Int64
7277: Function StringToInt64Def( const S : String; const Default : Int64) : Int64
7278: Function StringToInt64A( const S : AnsiString) : Int64
7279: Function StringToInt64W( const S : WideString) : Int64
7280: Function StringToInt64( const S : String) : Int64
7281: Function TryStringToIntA( const S : AnsiString; out A : Integer) : Boolean
7282: Function TryStringToIntW( const S : WideString; out A : Integer) : Boolean
7283: Function TryStringToInt( const S : String; out A : Integer) : Boolean
7284: Function StringToIntDefA( const S : AnsiString; const Default : Integer) : Integer
7285: Function StringToIntDefW( const S : WideString; const Default : Integer) : Integer
7286: Function StringToIntDef( const S : String; const Default : Integer) : Integer
7287: Function StringToIntA( const S : AnsiString) : Integer
7288: Function StringToIntW( const S : WideString) : Integer
7289: Function StringToInt( const S : String) : Integer
7290: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7291: Function TryStringToLongWordW( const S : WideString; out A : LongWord) : Boolean
7292: Function TryStringToLongWord( const S : String; out A : LongWord) : Boolean
7293: Function StringToLongWordA( const S : AnsiString) : LongWord
7294: Function StringToLongWordW( const S : WideString) : LongWord
7295: Function StringToLongWord( const S : String) : LongWord
7296: Function HexToUIntA( const S : AnsiString) : NativeUInt
7297: Function HexToUIntW( const S : WideString) : NativeUInt
7298: Function HexToUInt( const S : String) : NativeUInt
7299: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7300: Function TryHexToLongWordW( const S : WideString; out A : LongWord) : Boolean
7301: Function TryHexToLongWord( const S : String; out A : LongWord) : Boolean
7302: Function HexToLongWordA( const S : AnsiString) : LongWord
7303: Function HexToLongWordW( const S : WideString) : LongWord
7304: Function HexToLongWord( const S : String) : LongWord
7305: Function TryOctToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7306: Function TryOctToLongWordW( const S : WideString; out A : LongWord) : Boolean
7307: Function TryOctToLongWord( const S : String; out A : LongWord) : Boolean
7308: Function OctToLongWordA( const S : AnsiString) : LongWord
7309: Function OctToLongWordW( const S : WideString) : LongWord
7310: Function OctToLongWord( const S : String) : LongWord
7311: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord) : Boolean
7312: Function TryBinToLongWordW( const S : WideString; out A : LongWord) : Boolean
7313: Function TryBinToLongWord( const S : String; out A : LongWord) : Boolean
7314: Function BinToLongWordA( const S : AnsiString) : LongWord
7315: Function BinToLongWordW( const S : WideString) : LongWord
7316: Function BinToLongWord( const S : String) : LongWord
7317: Function FloatToStringA( const A : Extended) : AnsiString
7318: Function FloatToStringW( const A : Extended) : WideString
7319: Function FloatToString( const A : Extended) : String
7320: Function TryStringToFloatA( const A : AnsiString; out B : Extended) : Boolean
7321: Function TryStringToFloatW( const A : WideString; out B : Extended) : Boolean
7322: Function TryStringToFloat( const A : String; out B : Extended) : Boolean
7323: Function StringToFloatA( const A : AnsiString) : Extended
7324: Function StringToFloatW( const A : WideString) : Extended
7325: Function StringToFloat( const A : String) : Extended
7326: Function StringToFloatDefA( const A : AnsiString; const Default : Extended) : Extended
7327: Function StringToFloatDefW( const A : WideString; const Default : Extended) : Extended
7328: Function StringToFloatDef( const A : String; const Default : Extended) : Extended
7329: Function EncodeBase64(const S,Alphabet:AnsiString; const Pad:Boolean; const PadMultiple:Integer; const
PadChar: AnsiChar) : AnsiString

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7330: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7331: unit uPSI_cFundamentUtils;
7332: Const('b64_MIMEBase64','Str').String('ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
7333: Const('b64_UUEncode','String').String('!"$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNopQRSTUVWXYZ[\]^_';
7334: Const('b64_XXEncode','String').String('+-0123456789ABCDEFGHIJKLMNopQRSTUVWXYZabcdefghijklmnopqrstuvwxyz';
7335: Const('CCHARSET','String').SetString(b64_XXEncode);
7336: Const('CHEXSET','String').SetString('0123456789ABCDEF
7337: Const('HEXDIGITS','String').SetString('0123456789ABCDEF
7338: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7339: Const('DIGISET','String').SetString('0123456789
7340: Const('LETTERSET','String').SetString('ABCDEFGHIJKLMNopQRSTUVWXYZ
7341: Const('DIGISET2','TCharSet').SetSet('0123456789
7342: Const('LETTERSET2','TCharSet').SetSet('ABCDEFGHIJKLMNopQRSTUVWXYZ
7343: Const('HEXSET2','TCharSet').SetSet('0123456789ABCDEF');
7344: Const('NUMBERSET','TCharSet').SetSet('0123456789');
7345: Const('NUMBERS','String').SetString('0123456789');
7346: Const('LETTERS','String').SetString('ABCDEFGHIJKLMNopQRSTUVWXYZ');
7347: Function CharSetToStr( const C : CharSet ) : AnsiString
7348: Function StrToCharSet( const S : AnsiString ) : CharSet
7349: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7350: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7351: Function UUDecode( const S : AnsiString ) : AnsiString
7352: Function XXDecode( const S : AnsiString ) : AnsiString
7353: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7354: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7355: Function InterfaceToStrW( const I : IInterface ) : WideString
7356: Function InterfaceToStr( const I : IInterface ) : String
7357: Function ObjectClassName( const O : TObject ) : String
7358: Function ClassClassName( const C : TClass ) : String
7359: Function ObjectToStr( const O : TObject ) : String
7360: Function ObjectToString( const O : TObject ) : String
7361: Function CharSetToStr( const C : CharSet ) : AnsiString
7362: Function StrToCharSet( const S : AnsiString ) : CharSet
7363: Function HashStrA( const S : AnsiString; const Index : Integer; const Count : Integer; const
  AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7364: Function HashStrW( const S:Widestring;const Index:Integer;const Count:Integer;const
  AsciiCaseSensitive:Boolean; const Slots:LongWord ) : LongWord
7365: Function HashStr( const S : String; const Index : Integer; const Count : Integer; const
  AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7366: Function HashInteger( const I : Integer; const Slots : LongWord ) : LongWord
7367: Function HashLongWord( const I : LongWord; const Slots : LongWord ) : LongWord
7368: Const('Bytes1KB','LongInt').SetInt( 1024);
7369: SIRegister_IInterface(CL);
7370: Procedure SelfTestCFundamentUtils
7371:
7372: Function CreateSchedule : IJclSchedule
7373: Function NullStamp : TTimeStamp
7374: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7375: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7376: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7377:
7378: procedure SIRegister_uwinplot(CL: TPSPascalCompiler);
7379: begin
7380:   AddTypeS('TFunc', 'function(X: Float) : Float;
7381: Function InitGraphics( Width, Height : Integer ) : Boolean
7382: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
7383: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
7384: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
7385: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float)
7386: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float)
7387: Procedure SetGraphTitle( Title : String)
7388: Procedure SetOxTitle( Title : String)
7389: Procedure SetOyTitle( Title : String)
7390: Function GetGraphTitle : String
7391: Function GetOxTitle : String
7392: Function GetOyTitle : String
7393: Procedure PlotOxAxis( Canvas : TCanvas)
7394: Procedure PlotOyAxis( Canvas : TCanvas)
7395: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid)
7396: Procedure WriteGraphTitle( Canvas : TCanvas)
7397: Function SetMaxCurv( NCurv : Byte ) : Boolean
7398: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor)
7399: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor)
7400: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String)
7401: Procedure SetCurvStep( CurvIndex, Step : Integer)
7402: Function GetMaxCurv : Byte
7403: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor)
7404: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7405: Function GetCurvLegend( CurvIndex : Integer ) : String
7406: Function GetCurvStep( CurvIndex : Integer ) : Integer
7407: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer)
7408: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer)
7409: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7410: Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7411: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean)
7412: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
7413: Function Xpixel( X : Float ) : Integer
7414: Function Ypixel( Y : Float ) : Integer
7415: Function Xuser( X : Integer ) : Float

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7416: Function Yuser( Y : Integer) : Float
7417: end;
7418:
7419: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7420: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7421: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector)
7422: Procedure FFT_Integer_Cleanup
7423: Procedure CalcFrequency(NumSamples, FrequencyIndex: Integer; InArray: TCompVector; var FT : Complex)
7424: //unit uPSI_JclStreams;
7425: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin) : Int64
7426: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer) : Int64
7427: Function CompareStreams( A, B : TStream; BufferSize : Integer) : Boolean
7428: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer) : Boolean
7429:
7430: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7431: begin
7432:   FindClass('TOBJECT'), 'EInvalidDest
7433:   FindClass('TOBJECT'), 'EFCantMove
7434:   Procedure fmxCopyFile( const FileName, DestName : string)
7435:   Procedure fmxMoveFile( const FileName, DestName : string)
7436:   Function fmxGetFileSize( const FileName : string) : LongInt
7437:   Function fmxFileDateTime( const FileName : string) : TDateTime
7438:   Function fmxHasAttr( const FileName : string; Attr : Word) : Boolean
7439:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7440: end;
7441:
7442: procedure SIRegister_FindFileIter(CL: TPSPascalCompiler);
7443: begin
7444:   SIRegister_IFindFileIterator(CL);
7445:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7446: end;
7447:
7448: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7449: begin
7450:   Function SkipWhite( cp : PChar) : PChar
7451:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7452:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7453:   Function ReadIdent( cp : PChar; var ident : string) : PChar
7454: end;
7455:
7456: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7457: begin
7458:   SIRegister_TStringHashMapTraits(CL);
7459:   Function CaseSensitiveTraits : TStringHashMapTraits
7460:   Function CaseInsensitiveTraits : TStringHashMapTraits
7461:   THashNode, 'record Str : string; Ptr : Pointer; Left : PHashNod'
7462:   + 'e; Right : PHashNode; end
7463:   //PHashArray', '^THashArray // will not work
7464:   SIRegister_TStringHashMap(CL);
7465:   THashValue, 'Cardinal
7466:   Function StrHash( const s : string) : THashValue
7467:   Function TextHash( const s : string) : THashValue
7468:   Function DataHash( var AValue, ASize : Cardinal) : THashValue
7469:   Function Iterate_FreeObjects( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7470:   Function Iterate_Dispose( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7471:   Function Iterate_FreeMem( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7472:   SIRegister_TCaseSensitiveTraits(CL);
7473:   SIRegister_TCaseInsensitiveTraits(CL);
7474:
7475:
7476: //*****unit uPSI_umath;
7477: Function uExpo( X : Float) : Float
7478: Function uExp2( X : Float) : Float
7479: Function uExp10( X : Float) : Float
7480: Function uLog( X : Float) : Float
7481: Function uLog2( X : Float) : Float
7482: Function uLog10( X : Float) : Float
7483: Function uLogA( X, A : Float) : Float
7484: Function uIntPower( X : Float; N : Integer) : Float
7485: Function uPower( X, Y : Float) : Float
7486: Function SgnGamma( X : Float) : Integer
7487: Function Stirling( X : Float) : Float
7488: Function StirlLog( X : Float) : Float
7489: Function Gamma( X : Float) : Float
7490: Function LnGamma( X : Float) : Float
7491: Function DiGamma( X : Float) : Float
7492: Function TriGamma( X : Float) : Float
7493: Function IGamma( X : Float) : Float
7494: Function JGamma( X : Float) : Float
7495: Function InvGamma( X : Float) : Float
7496: Function Erf( X : Float) : Float
7497: Function Erfc( X : Float) : Float
7498: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7499: { Correlation coefficient between samples X and Y }
7500: function DBeta(A, B, X : Float) : Float;
7501: { Density of Beta distribution with parameters A and B }
7502: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7503: Function Beta(X, Y : Float) : Float
7504: Function Binomial( N, K : Integer) : Float

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7505: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7506: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7507: Procedure LU_Decom( A : TMatrix; Lb, Ub : Integer)
7508: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7509: Function DNorm( X : Float) : Float
7510:
7511: function DGamma(A, B, X : Float) : Float;
7512: { Density of Gamma distribution with parameters A and B }
7513: function DKhi2(Nu : Integer; X : Float) : Float;
7514: { Density of Khi-2 distribution with Nu d.o.f. }
7515: function DStudent(Nu : Integer; X : Float) : Float;
7516: { Density of Student distribution with Nu d.o.f. }
7517: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float;
7518: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
7519: function IBeta(A, B, X : Float) : Float;
7520: { Incomplete Beta function }
7521: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7522:
7523: procedure SIRegister_unlfit(CL: TPSPascalCompiler);
7524: begin
7525:   Procedure SetOptAlgo( Algo : TOptAlgo)
7526:   procedure SetOptAlgo(Algo : TOptAlgo);
7527:   { -----
7528:     Sets the optimization algorithm according to Algo, which must be
7529:     NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ
7530:   }
7531:   Function GetOptAlgo : TOptAlgo
7532:   Procedure SetMaxParam( N : Byte)
7533:   Function GetMaxParam : Byte
7534:   Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7535:   Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7536:   Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7537:   Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDerivProc; X, Y : TVector; Lb, Ub : Integer; MaxIter :
Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7538:   Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDerivProc; X, Y, S : TVector; Lb, Ub:Integer;
MaxIter:Integer;Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7539:   Procedure SetMCFile( FileName : String)
7540:   Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7541:   Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
LastPar:Integer;V:TMatrix);
7542: end;
7543:
7544: (*-----*)
7545: procedure SIRegister_usimplex(CL: TPSPascalCompiler);
7546: begin
7547:   Procedure SaveSimplex( FileName : string)
7548:   Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7549: end;
7550: (*-----*)
7551: procedure SIRegister_uregtest(CL: TPSPascalCompiler);
7552: begin
7553:   Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest)
7554:   Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest);
7555: end;
7556:
7557: procedure SIRegister_ustrings(CL: TPSPascalCompiler);
7558: begin
7559:   Function LTrim( S : String) : String
7560:   Function RTrim( S : String) : String
7561:   Function UTrim( S : String) : String
7562:   Function StrChar( N : Byte; C : Char) : String
7563:   Function RFill( S : String; L : Byte) : String
7564:   Function LFill( S : String; L : Byte) : String
7565:   Function CFill( S : String; L : Byte) : String
7566:   Function Replace( S : String; C1, C2 : Char) : String
7567:   Function Extract( S : String; var Index : Byte; Delim : Char) : String
7568:   Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7569:   Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7570:   Function FloatStr( X : Float) : String
7571:   Function IntStr( N : LongInt) : String
7572:   Function uCompStr( Z : Complex) : String
7573: end;
7574:
7575: procedure SIRegister_uhyper(CL: TPSPascalCompiler);
7576: begin
7577:   Function uSinh( X : Float) : Float
7578:   Function uCosh( X : Float) : Float
7579:   Function uTanh( X : Float) : Float
7580:   Function uArcSinh( X : Float) : Float
7581:   Function uArcCosh( X : Float) : Float
7582:   Function ArcTanh( X : Float) : Float
7583:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7584: end;
7585:
7586: procedure SIRegister_urandom(CL: TPSPascalCompiler);
7587: begin
7588:   type RNG_Type =
7589:     (RNG_MWC, { Multiply-With-Carry }
7590:     RNG_MT, { Mersenne Twister }

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7591:   RNG_UVAG); { Universal Virtual Array Generator }
7592: Procedure SetRNG( RNG : RNG_Type)
7593: Procedure InitGen( Seed : RNG_IntType)
7594: Procedure SRand( Seed : RNG_IntType)
7595: Function IRanGen : RNG_IntType
7596: Function IRanGen31 : RNG_IntType
7597: Function RanGen1 : Float
7598: Function RanGen2 : Float
7599: Function RanGen3 : Float
7600: Function RanGen53 : Float
7601: end;
7602:
7603: // Optimization by Simulated Annealing
7604: procedure SIRegister_usimann(CL: TPSPascalCompiler);
7605: begin
7606:   Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7607:   Procedure SA_CreateLogFile( FileName : String)
7608:   Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7609: end;
7610:
7611: procedure SIRegister_uranuvag(CL: TPSPascalCompiler);
7612: begin
7613:   Procedure InitUVAGbyString( KeyPhrase : string)
7614:   Procedure InitUVAG( Seed : RNG_IntType)
7615:   Function IRanUVAG : RNG_IntType
7616: end;
7617:
7618: procedure SIRegister_uenalg(CL: TPSPascalCompiler);
7619: begin
7620:   Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7621:   Procedure GA_CreateLogFile( LogFileName : String)
7622:   Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7623: end;
7624:
7625: TVector', 'array of Float
7626: procedure SIRegister_uqsort(CL: TPSPascalCompiler);
7627: begin
7628:   Procedure QSort( X : TVector; Lb, Ub : Integer)
7629:   Procedure DQSort( X : TVector; Lb, Ub : Integer)
7630: end;
7631:
7632: procedure SIRegister_uinterv(CL: TPSPascalCompiler);
7633: begin
7634:   Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7635:   Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7636: end;
7637:
7638: procedure SIRegister_D2XXUnit(CL: TPSPascalCompiler);
7639: begin
7640:   FT_Result', 'Integer
7641:   //TDWordptr', '^DWord // will not work
7642:   TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWord'
7643:   d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PChar
7644:   r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP
7645:   ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B
7646:   yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By
7647:   te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte
7648:   ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S
7649:   erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh
7650:   Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By
7651:   te; IFAIsFastSer : Byte; AIsVCP : Byte; IFBIsFifo : Byte; IFBIsFifoTar : B
7652:   yte; IFBIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs :
7653:   Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; I
7654:   nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv
7655:   ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0
7656:   : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIsVCP : B
7657:   yte; end
7658: end;
7659:
7660:
7661: //***** PaintFX*****
7662: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7663: begin
7664:   //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7665:   with AddClassN(FindClass('TComponent'),'TJvPaintFX') do begin
7666:     Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7667:     Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7668:     Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7669:     Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7670:     Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7671:     Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7672:     Procedure Turn( Src, Dst : TBitmap)
7673:     Procedure TurnRight( Src, Dst : TBitmap)
7674:     Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7675:     Procedure TexturizeTile( const Dst : TBitmap; Amount : Integer)
7676:     Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7677:     Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7678:     Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7679:     Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)

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7680: Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7681: Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7682: Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7683: Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7684: Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7685: Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7686: Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7687: Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7688: Procedure Emboss( var Bmp : TBitmap)
7689: Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7690: Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7691: Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7692: Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7693: Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7694: Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7695: Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7696: Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7697: Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7698: Procedure QuartoOpaque( Src, Dst : TBitmap)
7699: Procedure SemiOpaque( Src, Dst : TBitmap)
7700: Procedure ShadowDownLeft( const Dst : TBitmap)
7701: Procedure ShadowDownRight( const Dst : TBitmap)
7702: Procedure ShadowUpLeft( const Dst : TBitmap)
7703: Procedure ShadowUpRight( const Dst : TBitmap)
7704: Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7705: Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7706: Procedure FlipRight( const Dst : TBitmap)
7707: Procedure FlipDown( const Dst : TBitmap)
7708: Procedure Spotlight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7709: Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7710: Procedure MakeSeamlessClip( var Dst : TBitmap; Seam : Integer)
7711: Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7712: Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7713: Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7714: Procedure SmoothResize( var Src, Dst : TBitmap)
7715: Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7716: Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7717: Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7718: Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7719: Procedure GrayScale( const Dst : TBitmap)
7720: Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7721: Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7722: Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7723: Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7724: Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7725: Procedure Spray( const Dst : TBitmap; Amount : Integer)
7726: Procedure AntiAlias( const Dst : TBitmap)
7727: Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7728: Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7729: Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7730: Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7731: Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7732: Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7733: Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7734: Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7735: Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7736: Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7737: Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7738: Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7739: Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7740: Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7741: Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7742: Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7743: Procedure Invert( Src : TBitmap)
7744: Procedure MirrorRight( Src : TBitmap)
7745: Procedure MirrorDown( Src : TBitmap)
7746: end;
7747: end;
7748:
7749: (*-----*)
7750: procedure SIRegister_JvPaintFX(CL: TPSPascalCompiler);
7751: begin
7752:   AddTypeS('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe'
7753:     +'e, lbrotate, lbtwist, lbrimble, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7754:     +'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )'
7755:   SIRegister_TJvPaintFX(CL);
7756:   Function SplineFilter( Value : Single) : Single
7757:   Function BellFilter( Value : Single) : Single
7758:   Function TriangleFilter( Value : Single) : Single
7759:   Function BoxFilter( Value : Single) : Single
7760:   Function HermiteFilter( Value : Single) : Single
7761:   Function Lanczos3Filter( Value : Single) : Single
7762:   Function MitchellFilter( Value : Single) : Single
7763: end;
7764:
7765:
7766: (*-----*)
7767: procedure SIRegister_Chart(CL: TPSPascalCompiler);
7768: begin

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7769: TeeMsg_DefaultFunctionName','String').SetString( TeeFunction
7770: TeeMsg_DefaultSeriesName','String').SetString( Series
7771: TeeMsg_DefaultToolName','String').SetString( ChartTool
7772: ChartComponentPalette','String').SetString( TeeChart
7773: TeeMaxLegendColumns','LongInt').SetInt( 2);
7774: TeeDefaultLegendSymbolWidth','LongInt').SetInt( 20);
7775: TeeTitleFootDistance,LongInt).SetInt( 5);
7776: SIRegister_TCustomChartWall(CL);
7777: SIRegister_TChartWall(CL);
7778: SIRegister_TChartLegendGradient(CL);
7779: TLegendStyle, '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7780: TLegendAlignment', '( laLeft, laRight, laTop, laBottom )
7781: FindClass('TOBJECT'),'LegendException
7782: TOnGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7783: + 'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7784: FindClass('TOBJECT'),'TCustomChartLegend
7785: TLegendSymbolSize', '( lcsPercent, lcsPixels )
7786: TLegendSymbolPosition', '( spLeft, spRight )
7787: TSymbolDrawEvent','Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7788: TSymbolCalcHeight', 'Function : Integer
7789: SIRegister_TLegendSymbol(CL);
7790: SIRegister_TTeeCustomShapePosition(CL);
7791: TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7792: SIRegister_TLegendTitle(CL);
7793: SIRegister_TLegendItem(CL);
7794: SIRegister_TLegendItems(CL);
7795: TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7796: FindClass('TOBJECT'),'TCustomChart
7797: SIRegister_TCustomChartLegend(CL);
7798: SIRegister_TChartLegend(CL);
7799: SIRegister_TChartTitle(CL);
7800: SIRegister_TChartFootTitle(CL);
7801: TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7802: + 'eButton; Shift : TShiftState; X, Y : Integer)
7803: TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7804: + 'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7805: TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7806: + 'TChartSeries; ValueIndex : Integer; Button : TMouseButton; Shift:TShiftState;X,Y:Integer)
7807: TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7808: + 'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7809: TOnGetLegendPos', 'Procedure (Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7810: TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7811: TAxisSavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7812: + 'toMax : Boolean; Min : Double; Max : Double; end
7813: TAllAxisSavedScales', 'array of TAxisSavedScales
7814: SIRegister_TChartBackWall(CL);
7815: SIRegister_TChartRightWall(CL);
7816: SIRegister_TChartBottomWall(CL);
7817: SIRegister_TChartLeftWall(CL);
7818: SIRegister_TChartWalls(CL);
7819: TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7820: SIRegister_TCustomChart(CL);
7821: SIRegister_TChart(CL);
7822: SIRegister_TTeeSeriesTypes(CL);
7823: SIRegister_TTeeToolTypes(CL);
7824: SIRegister_TTeeDragObject(CL);
7825: SIRegister_TColorPalettes(CL);
7826: Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
AGalleryPage:PString;ANumGallerySeries:Integer;
7827: Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADescription : PString);
7828: Procedure RegisterTeeFunction(AFuncntClass:TTeeFunctionClass;ADescription,
AGalleryPage:PString;ANumGallerySeries: Int;
7829: Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADescription : PString)
7830: Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass;AFunctionClass:TTeeFunctionClass;
ADescription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7831: Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7832: Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7833: Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7834: Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass ) : TTeeFunction
7835: Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
AFunctionClass : TTeeFunctionClass ) : TChartSeries
7836: Function CloneChartSeries( ASeries : TChartSeries ) : TChartSeries;
7837: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel ) : TChartSeries;
7838: Function CloneChartSeries2(ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7839: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7840: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass ) : TChartSeries
7841: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass)
7842: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7843: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7844: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7845: Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7846: Procedure PaintSeriesLegend(ASeries:TChartSeries; ACanvas:TCanvas; const R:TRect;ReferenceChart :
TCustomChart);
7847: SIRegister_TChartTheme(CL);
7848: //TChartThemeClass', 'class of TChartTheme
7849: //TCanvasClass', 'class of TCanvas3D
7850: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7851: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7852: Procedure FillSeriesItems( AItems : TStringList; AList : TCustomSeriesList; UseTitles : Boolean)

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7853: Procedure ShowMessageUser( const S : String)
7854: Function HasNoMandatoryValues( ASeries : TChartSeries) : Boolean
7855: Function HasLabels( ASeries : TChartSeries) : Boolean
7856: Function HasColors( ASeries : TChartSeries) : Boolean
7857: Function SeriesGuessContents( ASeries : TChartSeries) : TeeFormatFlag
7858: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer)
7859: end;
7860:
7861:
7862: procedure SIRegister_TeeProcs(CL: TPSPascalCompiler);
7863: begin
7864:   //'TeeFormBorderStyle', '').SetString( bsNone);
7865:   SIRegister_TMetafile(CL);
7866:   'TeeDefVerticalMargin', 'LongInt').SetInt( 4);
7867:   'TeeDefHorizMargin', 'LongInt').SetInt( 3);
7868:   'crTeeHand', 'LongInt').SetInt( TCursor ( 2020 ));
7869:   'TeeMsg_TeeHand', 'String').SetString( 'crTeeHand
7870:   'TeeNormalPrintDetail', 'LongInt').SetInt( 0);
7871:   'TeeHighPrintDetail', 'LongInt').SetInt( - 100);
7872:   'TeeDefault_PrintMargin', 'LongInt').SetInt( 15);
7873:   'MaxDefaultColors', 'LongInt').SetInt( 19);
7874:   'TeeTabDelimiter', 'Char').SetString( #9);
7875:   TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7876:   + 'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7877:   + 'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7878:   + 'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7879:   + 'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7880:   + 'ourMonths, dtSixMonths, dtOneYear, dtNone )
7881:   SIRegister_TCustomPanelNoCaption(CL);
7882:   FindClass('TOBJECT'), 'TCustomTeePanel
7883:   SIRegister_TZoomPanning(CL);
7884:   SIRegister_TTeeEvent(CL);
7885:   //SIRegister_TTeeEventListeners(CL);
7886:   TTeeMouseEventKind', '( meDown, meUp, meMove )
7887:   SIRegister_TTeeMouseEvent(CL);
7888:   SIRegister_TCustomTeePanel(CL);
7889:   //TChartGradient', 'TGradient
7890:   //TChartGradientClass', 'class of TChartGradient
7891:   TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7892:   SIRegister_TTeeZoomPen(CL);
7893:   SIRegister_TTeeZoomBrush(CL);
7894:   TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7895:   SIRegister_TTeeZoom(CL);
7896:   FindClass('TOBJECT'), 'TCustomTeePanelExtended
7897:   TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7898:   SIRegister_TBackImage(CL);
7899:   SIRegister_TCustomTeePanelExtended(CL);
7900:   //TChartBrushClass', 'class of TChartBrush
7901:   SIRegister_TTeeCustomShapeBrushPen(CL);
7902:   TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7903:   TTextFormat', '( ttfNormal, ttfHtml )
7904:   SIRegister_TTeeCustomShape(CL);
7905:   SIRegister_TTeeShape(CL);
7906:   SIRegister_TTeeExportData(CL);
7907:   Function TeeStr( const Num : Integer) : String
7908:   Function DateTimeDefaultFormat( const AStep : Double) : String
7909:   Function TEEDaysInMonth( Year, Month : Word) : Word
7910:   Function FindDateTimeStep( const StepValue : Double) : TDateTimeStep
7911:   Function NextDateTimeStep( const AStep : Double) : Double
7912:   Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer) : Boolean;
7913:   Function PointInLine1( const P, FromPoint, ToPoint : TPoint) : Boolean;
7914:   Function PointInLine2(const P, FromPoint, ToPoint: TPoint; const TolerancePixels: Integer): Boolean;
7915:   Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels: Integer): Boolean;
7916:   Function PointInLineTolerance(const P: TPoint; const px, py, qx, qy, TolerancePixels: Integer): Boolean;
7917:   Function PointInPolygon( const P : TPoint; const Poly : array of TPoint) : Boolean
7918:   Function PointInTriangle( const P, P0, P1, P2 : TPoint) : Boolean;
7919:   Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer) : Boolean;
7920:   Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer) : Boolean
7921:   Function PointInEllipse( const P : TPoint; const Rect : TRect) : Boolean;
7922:   Function PointInEllipsel( const P: TPoint; Left, Top, Right, Bottom : Integer) : Boolean;
7923:   Function DelphiToLocalFormat( const Format : String) : String
7924:   Function LocalToDelphiFormat( const Format : String) : String
7925:   Procedure TEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
7926:   Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime
7927:   Procedure TeeDateTimeIncrement(IsDateTime: Boolean; Increment: Boolean; var Value: Double; const
AnIncrement: Double; tmpWhichDateTime: TDateTimeStep)
7928:   TTeeSortCompare', 'Function ( a, b : Integer) : Integer
7929:   TTeeSortSwap', 'Procedure ( a, b : Integer)
7930:   Procedure TeeSort(StartIndex, EndIndex: Integer; CompareFunc: TTeeSortCompare; SwapFunc: TTeeSortSwap);
7931:   Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String) : string
7932:   Function TeeExtractField( St : String; Index : Integer) : String;
7933:   Function TeeExtractField1( St : String; Index : Integer; const Separator : String) : String;
7934:   Function TeeNumFields( St : String) : Integer;
7935:   Function TeeNumFields1( const St, Separator : String) : Integer;
7936:   Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap)
7937:   Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String)
7938:   // TColorArray', 'array of TColor
7939:   Function GetDefaultColor( const Index : Integer) : TColor
7940:   Procedure SetDefaultColorPalette;

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7941: Procedure SetDefaultColorPalettel( const Palette : array of TColor);
7942: 'TeeCheckBoxSize', 'LongInt').SetInt( 11);
7943: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
7944: Function TEEStrToFloatDef( const S : string; const Default : Extended) : Extended
7945: Function TryStrToFloat( const S : String; var Value : Double) : Boolean
7946: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double) : Boolean
7947: Procedure TeeTranslateControl( AControl : TControl);
7948: Procedure TeeTranslateControl1( AControl : TControl; const ExcludeChilds : array of TControl);
7949: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char) : String
7950: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints)
7951: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean) : TBitmap
7952: //Procedure DrawBevel(Canvas:TCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
7953: //Function ScreenRatio( ACanvas : TCanvas3D) : Double
7954: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean) : Boolean
7955: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean)
7956: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer) : Integer
7957: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer)
7958: Function TeeReadStringOption( const AKey, DefaultValue : String) : String
7959: Procedure TeeSaveStringOption( const AKey, Value : String)
7960: Function TeeDefaultXMLEncoding : String
7961: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean)
7962: TeeWindowHandle', 'Integer
7963: Procedure TeeGotoURL( Handle : TeeWindowHandle; const URL : String)
7964: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String)
7965: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String) : TSize
7966: end;
7967:
7968:
7969: using mXBDEUtils
7970: *****
7971: Procedure SetAlias( aAlias, aDirectory : String)
7972: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
7973: Function GetFileVersionNumber( const FileName : String) : TVersionNo
7974: Procedure SetBDE( aPath, aNode, aValue : String)
7975: function RestartDialog(Wnd: HWND; Reason: PChar; Flags: Integer): Integer; stdcall;
7976: Function GetSystemDirectory( lpBuffer : string; uSize : UINT) : UINT
7977: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT) : UINT
7978: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string) : DWORD
7979: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string) : DWORD
7980: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
7981:
7982:
7983: procedure SIRegister_cDateTime(CL: TPSPascalCompiler);
7984: begin
7985: AddClassN(FindClass('TOBJECT'),'EDateTime
7986: Function DatePart( const D : TDateTime) : Integer
7987: Function TimePart( const D : TDateTime) : Double
7988: Function Century( const D : TDateTime) : Word
7989: Function Year( const D : TDateTime) : Word
7990: Function Month( const D : TDateTime) : Word
7991: Function Day( const D : TDateTime) : Word
7992: Function Hour( const D : TDateTime) : Word
7993: Function Minute( const D : TDateTime) : Word
7994: Function Second( const D : TDateTime) : Word
7995: Function Millisecond( const D : TDateTime) : Word
7996: ('OneDay','Extended').SetExtended( 1.0);
7997: ('OneHour','Extended').SetExtended( OneDay / 24);
7998: ('OneMinute','Extended').SetExtended( OneHour / 60);
7999: ('OneSecond','Extended').SetExtended( OneMinute / 60);
8000: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000);
8001: ('OneWeek','Extended').SetExtended( OneDay * 7);
8002: ('HoursPerDay','Extended').SetExtended( 24);
8003: ('MinutesPerHour','Extended').SetExtended( 60);
8004: ('SecondsPerMinute','Extended').SetExtended( 60);
8005: Procedure SetYear( var D : TDateTime; const Year : Word)
8006: Procedure SetMonth( var D : TDateTime; const Month : Word)
8007: Procedure SetDay( var D : TDateTime; const Day : Word)
8008: Procedure SetHour( var D : TDateTime; const Hour : Word)
8009: Procedure SetMinute( var D : TDateTime; const Minute : Word)
8010: Procedure SetSecond( var D : TDateTime; const Second : Word)
8011: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
8012: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
8013: Function IsEqual1( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8014: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8015: Function IsAM( const D : TDateTime) : Boolean
8016: Function IsPM( const D : TDateTime) : Boolean
8017: Function IsMidnight( const D : TDateTime) : Boolean
8018: Function IsNoon( const D : TDateTime) : Boolean
8019: Function IsSunday( const D : TDateTime) : Boolean
8020: Function IsMonday( const D : TDateTime) : Boolean
8021: Function IsTuesday( const D : TDateTime) : Boolean
8022: Function IsWednesday( const D : TDateTime) : Boolean
8023: Function IsThursday( const D : TDateTime) : Boolean
8024: Function IsFriday( const D : TDateTime) : Boolean
8025: Function IsSaturday( const D : TDateTime) : Boolean
8026: Function IsWeekend( const D : TDateTime) : Boolean
8027: Function Noon( const D : TDateTime) : TDateTime
8028: Function Midnight( const D : TDateTime) : TDateTime

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8029: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8030: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8031: Function NextWorkday( const D : TDateTime) : TDateTime
8032: Function PreviousWorkday( const D : TDateTime) : TDateTime
8033: Function FirstDayOfYear( const D : TDateTime) : TDateTime
8034: Function LastDayOfYear( const D : TDateTime) : TDateTime
8035: Function EasterSunday( const Year : Word) : TDateTime
8036: Function GoodFriday( const Year : Word) : TDateTime
8037: Function AddMilliseconds( const D : TDateTime; const N : Int64) : TDateTime
8038: Function AddSeconds( const D : TDateTime; const N : Int64) : TDateTime
8039: Function AddMinutes( const D : TDateTime; const N : Integer) : TDateTime
8040: Function AddHours( const D : TDateTime; const N : Integer) : TDateTime
8041: Function AddDays( const D : TDateTime; const N : Integer) : TDateTime
8042: Function AddWeeks( const D : TDateTime; const N : Integer) : TDateTime
8043: Function AddMonths( const D : TDateTime; const N : Integer) : TDateTime
8044: Function AddYears( const D : TDateTime; const N : Integer) : TDateTime
8045: Function DayOfYear( const Ye, Mo, Da : Word) : Integer
8046: Function DayOfYear( const D : TDateTime) : Integer
8047: Function DaysInMonth( const Ye, Mo : Word) : Integer
8048: Function DaysInMonth( const D : TDateTime) : Integer
8049: Function DaysInYear( const Ye : Word) : Integer
8050: Function DaysInYearDate( const D : TDateTime) : Integer
8051: Function WeekNumber( const D : TDateTime) : Integer
8052: Function ISOFirstWeekOfYear( const Ye : Word) : TDateTime
8053: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word)
8054: Function DiffMilliseconds( const D1, D2 : TDateTime) : Int64
8055: Function DiffSeconds( const D1, D2 : TDateTime) : Integer
8056: Function DiffMinutes( const D1, D2 : TDateTime) : Integer
8057: Function DiffHours( const D1, D2 : TDateTime) : Integer
8058: Function DiffDays( const D1, D2 : TDateTime) : Integer
8059: Function DiffWeeks( const D1, D2 : TDateTime) : Integer
8060: Function DiffMonths( const D1, D2 : TDateTime) : Integer
8061: Function DiffYears( const D1, D2 : TDateTime) : Integer
8062: Function GMTBias : Integer
8063: Function GMTTimeToLocalTime( const D : TDateTime) : TDateTime
8064: Function LocalTimeToGMTTime( const D : TDateTime) : TDateTime
8065: Function NowAsGMTTime : TDateTime
8066: Function DateTimeToISO8601String( const D : TDateTime) : AnsiString
8067: Function ISO8601StringToTime( const D : AnsiString) : TDateTime
8068: Function ISO8601StringAsDateTime( const D : AnsiString) : TDateTime
8069: Function DateTimeToANSI( const D : TDateTime) : Integer
8070: Function ANSIToDateTime( const Julian : Integer) : TDateTime
8071: Function DateTimeToISOInteger( const D : TDateTime) : Integer
8072: Function DateTimeToISOString( const D : TDateTime) : AnsiString
8073: Function ISOIntegerToDateTime( const ISOInteger : Integer) : TDateTime
8074: Function TwoDigitRadix2000YearToYear( const Y : Integer) : Integer
8075: Function DateTimeAsElapsedTime( const D: TDateTime; const IncludeMilliseconds: Boolean): AnsiString
8076: Function UnixTimeToDateTime( const UnixTime : LongWord) : TDateTime
8077: Function DateTimeToUnixTime( const D : TDateTime) : LongWord
8078: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8079: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8080: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8081: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8082: Function EnglishShortMonthStrA( const Month : Integer) : AnsiString
8083: Function EnglishShortMonthStrU( const Month : Integer) : UnicodeString
8084: Function EnglishLongMonthStrA( const Month : Integer) : AnsiString
8085: Function EnglishLongMonthStrU( const Month : Integer) : UnicodeString
8086: Function EnglishShortDayOfWeekA( const S : AnsiString) : Integer
8087: Function EnglishShortDayOfWeekU( const S : UnicodeString) : Integer
8088: Function EnglishLongDayOfWeekA( const S : AnsiString) : Integer
8089: Function EnglishLongDayOfWeekU( const S : UnicodeString) : Integer
8090: Function EnglishShortMonthA( const S : AnsiString) : Integer
8091: Function EnglishShortMonthU( const S : UnicodeString) : Integer
8092: Function EnglishLongMonthA( const S : AnsiString) : Integer
8093: Function EnglishLongMonthU( const S : UnicodeString) : Integer
8094: Function RFC850DayOfWeekA( const S : AnsiString) : Integer
8095: Function RFC850DayOfWeekU( const S : UnicodeString) : Integer
8096: Function RFC1123DayOfWeekA( const S : AnsiString) : Integer
8097: Function RFC1123DayOfWeekU( const S : UnicodeString) : Integer
8098: Function RFCMonthA( const S : AnsiString) : Word
8099: Function RFCMonthU( const S : UnicodeString) : Word
8100: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds: Boolean) : AnsiString
8101: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds: Boolean) : UnicodeString
8102: Function GMTDateTimeToRFC1123DateTimeA( const D: TDateTime; const IncludeDayOfWeek: Bool): AnsiString;
8103: Function GMTDateTimeToRFC1123DateTimeU( const D: TDateTime; const IncludeDayOfWeek: Bool): UnicodeString;
8104: Function DateTimeToRFCDateTimeA( const D : TDateTime) : AnsiString
8105: Function DateTimeToRFCDateTimeU( const D : TDateTime) : UnicodeString
8106: Function NowAsRFCDateTimeA : AnsiString
8107: Function NowAsRFCDateTimeU : UnicodeString
8108: Function RFCDateTimeToGMTDateTime( const S : AnsiString) : TDateTime
8109: Function RFCDateTimeToDateTime( const S : AnsiString) : TDateTime
8110: Function RFCTimeZoneToGMTBias( const Zone : AnsiString) : Integer
8111: Function TimePeriodStr( const D : TDateTime) : AnsiString
8112: Procedure SelfTest
8113: end;
8114: //*****CFileUtils
8115: Function PathHasDriveLetterA( const Path : AnsiString) : Boolean
8116: Function PathHasDriveLetter( const Path : String) : Boolean
8117: Function PathIsDriveLetterA( const Path : AnsiString) : Boolean

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8118: Function PathIsDriveLetter( const Path : String ) : Boolean
8119: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8120: Function PathIsDriveRoot( const Path : String ) : Boolean
8121: Function PathIsRootA( const Path : AnsiString ) : Boolean
8122: Function PathIsRoot( const Path : String ) : Boolean
8123: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8124: Function PathIsUNCPath( const Path : String ) : Boolean
8125: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8126: Function PathIsAbsolute( const Path : String ) : Boolean
8127: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8128: Function PathIsDirectory( const Path : String ) : Boolean
8129: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8130: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8131: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8132: Function PathExclSuffix( const Path : String; const PathSep : Char ) : String
8133: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char )
8134: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char )
8135: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char )
8136: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char )
8137: //Function PathCanonicalA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8138: Function PathCanonical( const Path : String; const PathSep : Char ) : String
8139: Function PathExpandA( const Path:AnsiString;const BasePath:AnsiString;const PathSep:Char):AnsiString
8140: Function PathExpand( const Path : String; const BasePath : String; const PathSep : Char ) : String
8141: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8142: Function PathLeftElement( const Path : String; const PathSep : Char ) : String
8143: Procedure PathSplitLeftElementA(const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char);
8144: Procedure PathSplitLeftElement(const Path:String; var LeftElement,RightPath : String;const PathSep:Char);
8145: Procedure DecodeFilePathA(const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char);
8146: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char )
8147: Function FileNameValidA( const FileName : AnsiString ) : AnsiString
8148: Function FileNameValid( const FileName : String ) : String
8149: Function FilePathA(const FileName,Path:AnsiString;const BasePath:AnsiStr;const PathSep:Char):AnsiString;
8150: Function FilePath(const FileName, Path : String;const BasePath: String;const PathSep : Char ) : String
8151: Function DirectoryExpandA(const Path:AnsiString;const BasePath:AnsiString;const PathSep:Char):AnsiString
8152: Function DirectoryExpand(const Path : String; const BasePath : String; const PathSep : Char ) : String
8153: Function UnixPathToWinPath( const Path : AnsiString ) : AnsiString
8154: Function WinPathToUnixPath( const Path : AnsiString ) : AnsiString
8155: Procedure CCopyFile( const FileName, DestName : String )
8156: Procedure CMoveFile( const FileName, DestName : String )
8157: Function CDeleteFiles( const FileMask : String ) : Boolean
8158: Function FileSeekEx(const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8159: Procedure FileCloseEx( const FileHandle : TFileHandle )
8160: Function FileExistsA( const FileName : AnsiString ) : Boolean
8161: Function CFileExists( const FileName : String ) : Boolean
8162: Function CFileGetSize( const FileName : String ) : Int64
8163: Function FileGetDateTime( const FileName : String ) : TDateTime
8164: Function FileGetDateTime2( const FileName : String ) : TDateTime
8165: Function FileIsReadOnly( const FileName : String ) : Boolean
8166: Procedure FileDeleteEx( const FileName : String )
8167: Procedure FileRenameEx( const OldFileName, NewFileName : String )
8168: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode
: TFileCreationMode; const FileOpenWait : PFileOpenWait ) : AnsiString
8169: Function DirectoryEntryExists( const Name : String ) : Boolean
8170: Function DirectoryEntrySize( const Name : String ) : Int64
8171: Function CDirectoryExists( const DirectoryName : String ) : Boolean
8172: Function DirectoryGetDateTime( const DirectoryName : String ) : TDateTime
8173: Procedure CDirectoryCreate( const DirectoryName : String )
8174: Function GetFirstFileNameMatching( const FileMask : String ) : String
8175: Function DirEntryGetAttr( const FileName : AnsiString ) : Integer
8176: Function DirEntryIsDirectory( const FileName : AnsiString ) : Boolean
8177: Function FileHasAttr( const FileName : String; const Attr : Word ) : Boolean
8178: AddTypes('TLogicalDriveType', '( DriveRemovable, DriveFixed, DriveRemote, '
8179: + 'DriveCDRom, DriveRamDisk, DriveTypeUnknown )
8180: Function DriveIsValid( const Drive : Char ) : Boolean
8181: Function DriveGetType( const Path : AnsiString ) : TLogicalDriveType
8182: Function DriveFreeSpace( const Path : AnsiString ) : Int64
8183:
8184: procedure SIRegister_cTimers(CL: TPSPascalCompiler);
8185: begin
8186:   AddClassN(FindClass('TOBJECT'),'ETimers
8187:   Const('TickFrequency','LongInt').SetInt( 1000);Function GetTick : LongWord
8188: Function TickDelta( const D1, D2 : LongWord ) : Integer
8189: Function TickDeltaW( const D1, D2 : LongWord ) : LongWord
8190:   AddTypes('THPTimer', 'Int64
8191: Procedure StartTimer( var Timer : THPTimer)
8192: Procedure StopTimer( var Timer : THPTimer)
8193: Procedure ResumeTimer( var StoppedTimer : THPTimer)
8194: Procedure InitStoppedTimer( var Timer : THPTimer)
8195: Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer)
8196: Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Integer
8197: Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Int64
8198: Procedure WaitMicroseconds( const MicroSeconds : Integer)
8199: Function GetHighPrecisionFrequency : Int64
8200: Function GetHighPrecisionTimerOverhead : Int64
8201: Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64)
8202: Procedure SelfTestCTimer
8203: end;
8204:
8205: procedure SIRegister_cRandom(CL: TPSPascalCompiler);

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8206: begin
8207:   Function RandomSeed : LongWord
8208:   Procedure AddEntropy( const Value : LongWord)
8209:   Function RandomUniform : LongWord;
8210:   Function RandomUniform1( const N : Integer) : Integer;
8211:   Function RandomBoolean : Boolean
8212:   Function RandomByte : Byte
8213:   Function RandomByteNonZero : Byte
8214:   Function RandomWord : Word
8215:   Function RandomInt64 : Int64;
8216:   Function RandomInt641( const N : Int64) : Int64;
8217:   Function RandomHex( const Digits : Integer) : String
8218:   Function RandomFloat : Extended
8219:   Function RandomAlphaStr( const Length : Integer) : AnsiString
8220:   Function RandomPseudoWord( const Length : Integer) : AnsiString
8221:   Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8222:   Function mwcRandomLongWord : LongWord
8223:   Function urnRandomLongWord : LongWord
8224:   Function moaRandomFloat : Extended
8225:   Function mwcRandomFloat : Extended
8226:   Function RandomNormalF : Extended
8227:   Procedure SelfTestCRandom
8228: end;
8229:
8230: procedure SIRegister_SynEditMiscProcs(CL: TPSPascalCompiler);
8231: begin
8232:   // PIntArray, 'TIntArray // will not work
8233:   Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8234:   Addtypes('TConvertTabsProcEx','function(const Line:AnsiString; TabWidth: integer;var HasTabs: boolean):
AnsiString
8235:   Function synMax( x, y : integer) : integer
8236:   Function synMin( x, y : integer) : integer
8237:   Function synMinMax( x, mi, ma : integer) : integer
8238:   Procedure synSwapInt( var l, r : integer)
8239:   Function synMaxPoint( const P1, P2 : TPoint) : TPoint
8240:   Function synMinPoint( const P1, P2 : TPoint) : TPoint
8241:   //Function synGetIntArray( Count : Cardinal; InitialValue : integer) : PIntArray
8242:   Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect)
8243:   Function synGetBestConvertTabsProc( TabWidth : integer) : TConvertTabsProc
8244:   Function synConvertTabs( const Line : AnsiString; TabWidth : integer) : AnsiString
8245:   Function synGetBestConvertTabsProcEx( TabWidth : integer) : TConvertTabsProcEx
8246:   Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8247:   Function synGetExpandedLength( const aStr : string; aTabWidth : integer) : integer
8248:   Function synCharIndex2CaretPos( Index, TabWidth : integer; const Line : string) : integer
8249:   Function synCaretPos2CharIndex(Position,TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8250:   Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8251:   Function synStrRScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8252:   TStringType', '( stNone, stHalfNumAlpha, stHalfSymbol, stHalfKat'
8253:   + 'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida )
8254:   ('C3_NONSPACING','LongInt').SetInt( 1);
8255:   ('C3_DIACRITIC','LongInt').SetInt( 2);
8256:   ('C3_VOWELMARK','LongInt').SetInt( 4);
8257:   ('C3_SYMBOL','LongInt').SetInt( 8);
8258:   ('C3_KATAKANA','LongWord').SetUInt( $0010);
8259:   ('C3_HIRAGANA','LongWord').SetUInt( $0020);
8260:   ('C3_HALFWIDTH','LongWord').SetUInt( $0040);
8261:   ('C3_FULLWIDTH','LongWord').SetUInt( $0080);
8262:   ('C3_IDEOGRAPH','LongWord').SetUInt( $0100);
8263:   ('C3_KASHIDA','LongWord').SetUInt( $0200);
8264:   ('C3_LEXICAL','LongWord').SetUInt( $0400);
8265:   ('C3_ALPHA','LongWord').SetUInt( $8000);
8266:   ('C3_NOTAPPLICABLE','LongInt').SetInt( 0);
8267:   Function synStrScanForMultiByteChar( const Line : string; Start : Integer) : Integer
8268:   Function synStrRScanForMultiByteChar( const Line : string; Start : Integer) : Integer
8269:   Function synIsStringType( Value : Word) : TStringType
8270:   Function synGetEOL( Line : PChar) : PChar
8271:   Function synEncodeString( s : string) : string
8272:   Function synDecodeString( s : string) : string
8273:   Procedure synFreeAndNil( var Obj: TObject)
8274:   Procedure synAssert( Expr : Boolean)
8275:   Function synLastDelimiter( const Delimiters, S : string) : Integer
8276:   TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8277:   TReplaceFlags', 'set of TReplaceFlag )
8278:   Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8279:   Function synGetRValue( RGBValue : TColor) : byte
8280:   Function synGetGValue( RGBValue : TColor) : byte
8281:   Function synGetBValue( RGBValue : TColor) : byte
8282:   Function synRGB( r, g, b : Byte) : Cardinal
8283:   // THighlighterAttriProc', 'Function ( Highlighter : TSynCustomHigh'
8284:   // '+'lighter; Attri:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8285:   //Function synEnumHighlighterAttris( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer) : Boolean
8286:   Function synCalcFCS( const ABuf, ABufSize : Cardinal) : Word
8287:   Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8288: end;
8289:
8290:   Function GET_APPCOMMAND_LPARAM( lParam : LPARAM) : WORD
8291:   Function GET_DEVICE_LPARAM( lParam : LPARAM) : WORD

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8292:  Function GET_KEYSTATE_LPARAM( lParam : LPARAM) : WORD
8293:
8294:  procedure SIRegister_synautil(CL: TPSPascalCompiler);
8295:  begin
8296:    Function STimeZoneBias : integer
8297:    Function TimeZone : string
8298:    Function Rfc822DateTime( t : TDateTime) : string
8299:    Function CDateTime( t : TDateTime) : string
8300:    Function SimpleDateTime( t : TDateTime) : string
8301:    Function AnsiCDateTime( t : TDateTime) : string
8302:    Function GetMonthNumber( Value : String) : integer
8303:    Function GetTimeFromStr( Value : string) : TDateTime
8304:    Function GetDateMDYFromStr( Value : string) : TDateTime
8305:    Function DecodeRfcDateTime( Value : string) : TDateTime
8306:    Function GetUTTime : TDateTime
8307:    Function SetUTTime( Newdt : TDateTime) : Boolean
8308:    Function SGetTick : LongWord
8309:    Function STickDelta( TickOld, TickNew : LongWord) : LongWord
8310:    Function CodeInt( Value : Word) : Ansistring
8311:    Function DecodeInt( const Value : Ansistring; Index : Integer) : Word
8312:    Function CodeLongInt( Value : LongInt) : Ansistring
8313:    Function DecodeLongInt( const Value : Ansistring; Index : Integer) : LongInt
8314:    Function DumpStr( const Buffer : Ansistring) : string
8315:    Function DumpExStr( const Buffer : Ansistring) : string
8316:    Procedure Dump( const Buffer : AnsiString; DumpFile : string)
8317:    Procedure DumpEx( const Buffer : AnsiString; DumpFile : string)
8318:    Function TrimSPLeft( const S : string) : string
8319:    Function TrimSPRight( const S : string) : string
8320:    Function TrimSP( const S : string) : string
8321:    Function SeparateLeft( const Value, Delimiter : string) : string
8322:    Function SeparateRight( const Value, Delimiter : string) : string
8323:    Function SGetParameter( const Value, Parameter : string) : string
8324:    Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings)
8325:    Procedure ParseParameters( Value : string; const Parameters : TStrings)
8326:    Function IndexByBegin( Value : string; const List : TStrings) : integer
8327:    Function GetEmailAddr( const Value : string) : string
8328:    Function GetEmailDesc( Value : string) : string
8329:    Function CStrToHex( const Value : Ansistring) : string
8330:    Function CIntToBin( Value : Integer; Digits : Byte) : string
8331:    Function CBinToInt( const Value : string) : Integer
8332:    Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8333:    Function CReplaceString( Value, Search, Replace : Ansistring) : Ansistring
8334:    Function CRPosEx( const Sub, Value : string; From : integer) : Integer
8335:    Function CRPos( const Sub, Value : String) : Integer
8336:    Function FetchBin( var Value : string; const Delimiter : string) : string
8337:    Function CFetch( var Value : string; const Delimiter : string) : string
8338:    Function FetchEx( var Value : string; const Delimiter, Quotation : string) : string
8339:    Function IsBinaryString( const Value : Ansistring) : Boolean
8340:    Function PosCRLF( const Value : Ansistring; var Terminator : Ansistring) : integer
8341:    Procedure StringsTrim( const value : TStrings)
8342:    Function PosFrom( const SubStr, Value : String; From : integer) : integer
8343:    Function IncPoint( const p : __pointer; Value : integer) : __pointer
8344:    Function GetBetween( const PairBegin, PairEnd, Value : string) : string
8345:    Function CCountOfChar( const Value : string; aChr : char) : integer
8346:    Function UnquoteStr( const Value : string; Quote : Char) : string
8347:    Function QuoteStr( const Value : string; Quote : Char) : string
8348:    Procedure HeadersToList( const Value : TStrings)
8349:    Procedure ListToHeaders( const Value : TStrings)
8350:    Function SwapBytes( Value : integer) : integer
8351:    Function ReadStrFromStream( const Stream : TStream; len : integer) : Ansistring
8352:    Procedure WriteStrToStream( const Stream : TStream; Value : Ansistring)
8353:    Function GetTempFile( const Dir, prefix : Ansistring) : Ansistring
8354:    Function CPadString( const Value : Ansistring; len : integer; Pad : AnsiChar) : Ansistring
8355:    Function CXorString( Indata1, Indata2 : Ansistring) : Ansistring
8356:    Function NormalizeHeader( Value : TStrings; var Index : Integer) : string
8357:  end;
8358:
8359:  procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8360:  begin
8361:    ('CrcBufSize','LongInt').SetInt( 2048);
8362:    Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
8363:    Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
8364:    Function Adler32OfFile( FileName : Ansistring) : LongInt
8365:    Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8366:    Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8367:    Function Crc16OfFile( FileName : Ansistring) : Cardinal
8368:    Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
8369:    Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
8370:    Function Crc32OfFile( FileName : Ansistring) : LongInt
8371:    Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8372:    Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8373:    Function InternetSumOfFile( FileName : Ansistring) : Cardinal
8374:    Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8375:    Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8376:    Function Kermit16OfFile( FileName : Ansistring) : Cardinal
8377:  end;
8378:
8379:  procedure SIRegister_ComObj(cl: TPSPascalCompiler);
8380:  begin

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8381: function CreateOleObject(const ClassName: String): IDispatch;
8382: function GetActiveOleObject(const ClassName: String): IDispatch;
8383: function ProgIDToClassID(const ProgID: string): TGUID;
8384: function ClassIDToProgID(const ClassID: TGUID): string;
8385: function CreateClassID: string;
8386: function CreateGUIDString: string;
8387: function CreateGUIDID: string;
8388: procedure OleError(ErrorCode: longint);
8389: procedure OleCheck(Result: HRESULT);
8390: end;
8391:
8392: Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8393: Function xGetActiveOleObject( const ClassName : string ) : Variant
8394: //Function DllGetClassObject( const CLSID : TCLSID; const IID : TIID; var Obj ) : HRESULT
8395: Function DllCanUnloadNow : HRESULT
8396: Function DllRegisterServer : HRESULT
8397: Function DllUnregisterServer : HRESULT
8398: Function VarFromInterface( Unknown : IUnknown ) : Variant
8399: Function VarToInterface( const V : Variant ) : IDispatch
8400: Function VarToAutoObject( const V : Variant ) : TAutoObject
8401: //Procedure
DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8402: //Procedure DispInvokeError( Status : HRESULT; const ExcepInfo : TExcepInfo)
8403: Procedure OleError( ErrorCode : HRESULT)
8404: Procedure OleCheck( Result : HRESULT)
8405: Function StringToClassID( const S : string ) : TCLSID
8406: Function ClassIDToString( const ClassID : TCLSID ) : string
8407: Function xProgIDToClassID( const ProgID : string ) : TCLSID
8408: Function xClassIDToProgID( const ClassID : TCLSID ) : string
8409: Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8410: Function xWideSameStr( const S1, S2 : WideString ) : Boolean
8411: Function xGUIDToString( const ClassID : TGUID ) : string
8412: Function xStringToGUID( const S : string ) : TGUID
8413: Function xGetModuleName( Module : HMODULE ) : string
8414: Function xAcquireExceptionObject : TObject
8415: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8416: Function xUtf8Encode( const WS : WideString ) : UTF8String
8417: Function xUtf8Decode( const S : UTF8String ) : WideString
8418: Function xExcludeTrailingPathDelimiter( const S : string ) : string
8419: Function xIncludeTrailingPathDelimiter( const S : string ) : string
8420: Function XRTLHandleCOMException : HRESULT
8421: Procedure XRTLCheckArgument( Flag : Boolean)
8422: //Procedure XRTLCheckOutArgument( out Arg)
8423: Procedure XRTLInterfaceConnect(const Source:IUnknown;const IID:TIID;const Sink:IUnknown;var
Connection:Longint);
8424: Procedure XRTLInterfaceDisconnect(const Source: IUnknown; const IID:TIID;var Connection : Longint)
8425: Function XRTLRegisterActiveObject(const Unk:IUnknown;ClassID:TCLSID;Flags:DWORD;var
RegisterCookie:Int):HRESULT
8426: Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer ) : HRESULT
8427: //Function XRTLGetActiveObject( ClassID : TCLSID; RIID : TIID; out Obj ) : HRESULT
8428: Procedure XRTLEnumActiveObjects( Strings : TStrings)
8429: function XRTLDefaultCategoryManager: IUnknown;
8430: function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil): Boolean;
8431: // ICatRegister helper functions
8432: function XRTLCreateComponentCategory(CatID: TGUID; CatDescription: WideString;
LocaleID: TLCID = LOCALE_USER_DEFAULT;
const CategoryManager: IUnknown = nil): HRESULT;
8433:
8434: function XRTLRemoveComponentCategory(CatID: TGUID; CatDescription: WideString;
LocaleID: TLCID = LOCALE_USER_DEFAULT;
const CategoryManager: IUnknown = nil): HRESULT;
8435:
8436: function XRTLRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
const CategoryManager: IUnknown = nil): HRESULT;
8437:
8438: function XRTLUnRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
const CategoryManager: IUnknown = nil): HRESULT;
8439:
8440: function XRTLGetCategoryDescription(CatID: TGUID; var CatDescription: WideString;
LocaleID: TLCID = LOCALE_USER_DEFAULT;
const CategoryManager: IUnknown = nil): HRESULT;
8441:
8442: // ICatInformation helper functions
8443: function XRTLGetCategoryList(Strings: TStrings; LocaleID: TLCID = LOCALE_USER_DEFAULT;
const CategoryManager: IUnknown = nil): HRESULT;
8444:
8445: function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
const CategoryManager: IUnknown = nil): HRESULT;
8446:
8447: function XRTLGetCategoryProgIDList(CatID: TGUID; Strings: TStrings;
const CategoryManager: IUnknown = nil): HRESULT;
8448:
8449: function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ';
const ADelete: Boolean = True): WideString;
8450:
8451: function XRTLPos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8452:
8453: function XRTLGetVariantAsString( const Value : Variant ) : string
8454:
8455: function XRTLDateTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone ) : TDateTime
8456:
8457: function XRTLGetTimeZones : TXRTLTimeZones
8458:
8459: function XFileTimeToDateTime( FileTime : TFileTime ) : TDateTime
8460:
8461: function DateTimeToFileTime( DateTime : TDateTime ) : TFileTime
8462:
8463: function GMTNow : TDateTime
8464:
8465: function GMTToLocalTime( GMT : TDateTime ) : TDateTime
8466:
8467: function LocalTimeToGMT( LocalTime : TDateTime ) : TDateTime
8468:
8469: Procedure XRTLNotImplemented
8470:
8471: Procedure XRTLRaiseError( E : Exception)
8472:
8473: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string)
8474:
8475:

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8467:
8468: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8469: begin
8470:   SIRegister_IXRTLValue(CL);
8471:   SIRegister_TXRTLValue(CL);
8472:   //AddTypeS('PXRTLValueArray', '^TXRTLValueArray // will not work
8473:   AddTypeS('TXRTLValueArray', 'array of IXRTLValue
8474: Function XRTLValue( const AValue : Cardinal) : IXRTLValue;
8475: Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal) : Cardinal;
8476: Function XRTLGetAsCardinal( const IValue : IXRTLValue) : Cardinal
8477: Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal) : Cardinal
8478: Function XRTLValue1( const AValue : Integer) : IXRTLValue;
8479: Function XRTLSetValue1( const IValue : IXRTLValue; const AValue : Integer) : Integer;
8480: Function XRTLGetAsInteger( const IValue : IXRTLValue) : Integer
8481: Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer) : Integer
8482: Function XRTLValue2( const AValue : Int64) : IXRTLValue;
8483: Function XRTLSetValue2( const IValue : IXRTLValue; const AValue : Int64) : Int64;
8484: Function XRTLGetAsInt64( const IValue : IXRTLValue) : Int64
8485: Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64) : Int64
8486: Function XRTLValue3( const AValue : Single) : IXRTLValue;
8487: Function XRTLSetValue3( const IValue : IXRTLValue; const AValue : Single) : Single;
8488: Function XRTLGetAsSingle( const IValue : IXRTLValue) : Single
8489: Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single) : Single
8490: Function XRTLValue4( const AValue : Double) : IXRTLValue;
8491: Function XRTLSetValue4( const IValue : IXRTLValue; const AValue : Double) : Double;
8492: Function XRTLGetAsDouble( const IValue : IXRTLValue) : Double
8493: Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double) : Double
8494: Function XRTLValue5( const AValue : Extended) : IXRTLValue;
8495: Function XRTLSetValue5( const IValue : IXRTLValue; const AValue : Extended) : Extended;
8496: Function XRTLGetAsExtended( const IValue : IXRTLValue) : Extended
8497: Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended) : Extended
8498: Function XRTLValue6( const AValue : IInterface) : IXRTLValue;
8499: Function XRTLSetValue6( const IValue : IXRTLValue; const AValue : IInterface) : IInterface;
8500: Function XRTLGetAsInterface( const IValue : IXRTLValue) : IInterface;
8501: //Function XRTLGetAsInterface1( const IValue : IXRTLValue; out Obj) : IInterface;
8502: Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface) : IInterface;
8503: Function XRTLValue7( const AValue : WideString) : IXRTLValue;
8504: Function XRTLSetValue7( const IValue : IXRTLValue; const AValue : WideString) : WideString;
8505: Function XRTLGetAsWideString( const IValue : IXRTLValue) : WideString
8506: Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString) : WideString
8507: Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean) : IXRTLValue;
8508: Function XRTLSetValue8( const IValue : IXRTLValue; const AValue : TObject) : TObject;
8509: Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean) : TObject;
8510: Function XRTLGetAsObjectDef(const IValue:IXRTLValue;const DefValue:TObject;const
ADetachOwnership:Boolean):TObject;
8511: //Function XRTLValue9( const AValue : __Pointer) : IXRTLValue;
8512: //Function XRTLSetValue9( const IValue : IXRTLValue; const AValue : __Pointer) : __Pointer;
8513: //Function XRTLGetAsPointer( const IValue : IXRTLValue) : __Pointer
8514: //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : __Pointer) : __Pointer
8515: Function XRTLValueV( const AValue : Variant) : IXRTLValue;
8516: Function XRTLSetValueV( const IValue : IXRTLValue; const AValue : Variant) : Variant;
8517: Function XRTLGetAsVariant( const IValue : IXRTLValue) : Variant
8518: Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant) : Variant
8519: Function XRTLValue10( const AValue : Currency) : IXRTLValue;
8520: Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency) : Currency;
8521: Function XRTLGetAsCurrency( const IValue : IXRTLValue) : Currency
8522: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency) : Currency
8523: Function XRTLValue11( const AValue : Comp) : IXRTLValue;
8524: Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp) : Comp;
8525: Function XRTLGetAsComp( const IValue : IXRTLValue) : Comp
8526: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp) : Comp
8527: Function XRTLValue12( const AValue : TClass) : IXRTLValue;
8528: Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass) : TClass;
8529: Function XRTLGetAsClass( const IValue : IXRTLValue) : TClass
8530: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass) : TClass
8531: Function XRTLValue13( const AValue : TGUID) : IXRTLValue;
8532: Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID) : TGUID;
8533: Function XRTLGetAsGUID( const IValue : IXRTLValue) : TGUID
8534: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID) : TGUID
8535: Function XRTLValue14( const AValue : Boolean) : IXRTLValue;
8536: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean) : Boolean;
8537: Function XRTLGetAsBoolean( const IValue : IXRTLValue) : Boolean
8538: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean) : Boolean
8539: end;
8540:
8541: //*****unit uPSI_GR32;*****
8542:
8543: Function Color32( WinColor : TColor) : TColor32;
8544: Function Color321( R, G, B : Byte; A : Byte) : TColor32;
8545: Function Color322( Index : Byte; var Palette : TPalette32) : TColor32;
8546: Function Gray32( Intensity : Byte; Alpha : Byte) : TColor32
8547: Function WinColor( Color32 : TColor32) : TColor
8548: Function ArrayOfColor32( Colors : array of TColor32) : TArrayOfColor32
8549: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte)
8550: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte)
8551: Function Color32Components( R, G, B, A : Boolean) : TColor32Components
8552: Function RedComponent( Color32 : TColor32) : Integer
8553: Function GreenComponent( Color32 : TColor32) : Integer
8554: Function BlueComponent( Color32 : TColor32) : Integer

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8555: Function AlphaComponent( Color32 : TColor32) : Integer
8556: Function Intensity( Color32 : TColor32) : Integer
8557: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer) : TColor32
8558: Function HSLtoRGB( H, S, L : Single) : TColor32;
8559: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single);
8560: Function HSLtoRGB1( H, S, L : Integer) : TColor32;
8561: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte);
8562: Function WinPalette( const P : TPalette32) : HPALETTE
8563: Function FloatPoint( X, Y : Single) : TFloatPoint;
8564: Function FloatPoint1( const P : TPoint) : TFloatPoint;
8565: Function FloatPoint2( const FXP : TFixedPoint) : TFloatPoint;
8566: Function FixedPoint( X, Y : Integer) : TFixedPoint;
8567: Function FixedPoint1( X, Y : Single) : TFixedPoint;
8568: Function FixedPoint2( const P : TPoint) : TFixedPoint;
8569: Function FixedPoint3( const FP : TFloatPoint) : TFixedPoint;
8570: AddTypes( 'TRectRounding', '( rrClosest, rrOutside, rrInside )
8571: Function MakeRect( const L, T, R, B : Integer) : TRect;
8572: Function MakeRect1( const FR : TFloatRect; Rounding : TRectRounding) : TRect;
8573: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding) : TRect;
8574: Function GFixedRect( const L, T, R, B : TFixed) : TRect;
8575: Function FixedRect1( const ARect : TRect) : TRect;
8576: Function FixedRect2( const FR : TFloatRect) : TRect;
8577: Function GFloatRect( const L, T, R, B : TFloat) : TFloatRect;
8578: Function FloatRect1( const ARect : TRect) : TFloatRect;
8579: Function FloatRect2( const FXR : TRect) : TFloatRect;
8580: Function GIntersectRect( out Dst : TRect; const R1, R2 : TRect) : Boolean;
8581: Function IntersectRect1( out Dst : TFloatRect; const FR1, FR2 : TFloatRect) : Boolean;
8582: Function GUnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean;
8583: Function UnionRect1( out Rect : TFloatRect; const R1, R2 : TFloatRect) : Boolean;
8584: Function GEqualRect( const R1, R2 : TRect) : Boolean;
8585: Function EqualRect1( const R1, R2 : TFloatRect) : Boolean;
8586: Procedure GInflateRect( var R : TRect; Dx, Dy : Integer);
8587: Procedure InflateRect1( var FR : TFloatRect; Dx, Dy : TFloat);
8588: Procedure GOffsetRect( var R : TRect; Dx, Dy : Integer);
8589: Procedure OffsetRect1( var FR : TFloatRect; Dx, Dy : TFloat);
8590: Function IsRectEmpty( const R : TRect) : Boolean;
8591: Function IsRectEmpty1( const FR : TFloatRect) : Boolean;
8592: Function GPtInRect( const R : TRect; const P : TPoint) : Boolean;
8593: Function PtInRect1( const R : TFloatRect; const P : TPoint) : Boolean;
8594: Function PtInRect2( const R : TRect; const P : TFloatPoint) : Boolean;
8595: Function PtInRect3( const R : TFloatRect; const P : TFloatPoint) : Boolean;
8596: Function EqualRectSize( const R1, R2 : TRect) : Boolean;
8597: Function EqualRectSize1( const R1, R2 : TFloatRect) : Boolean;
8598: Function MessageBeep( uType : UINT) : BOOL
8599: Function ShowCursor( bShow : BOOL) : Integer
8600: Function SetCursorPos( X, Y : Integer) : BOOL
8601: Function SetCursor( hCursor : HICON) : HCURSOR
8602: Function GetCursorPos( var lpPoint : TPoint) : BOOL
8603: //Function ClipCursor( lpRect : PRect) : BOOL
8604: Function GetClipCursor( var lpRect : TRect) : BOOL
8605: Function GetCursor : HCURSOR
8606: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer) : BOOL
8607: Function GetCaretBlinkTime : UINT
8608: Function SetCaretBlinkTime( uMSeconds : UINT) : BOOL
8609: Function DestroyCaret : BOOL
8610: Function HideCaret( hWnd : HWND) : BOOL
8611: Function ShowCaret( hWnd : HWND) : BOOL
8612: Function SetCaretPos( X, Y : Integer) : BOOL
8613: Function GetCaretPos( var lpPoint : TPoint) : BOOL
8614: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint) : BOOL
8615: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint) : BOOL
8616: Function MapWindowPoints( hWndFrom, hWndTo : HWND; var lpPoints, cPoints : UINT) : Integer
8617: Function WindowFromPoint( Point : TPoint) : HWND
8618: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint) : HWND
8619:
8620:
8621: procedure SIRegister_GR32_Math(CL: TPSPascalCompiler);
8622: begin
8623:   Function FixedFloor( A : TFixed) : Integer
8624:   Function FixedCeil( A : TFixed) : Integer
8625:   Function FixedMul( A, B : TFixed) : TFixed
8626:   Function FixedDiv( A, B : TFixed) : TFixed
8627:   Function OneOver( Value : TFixed) : TFixed
8628:   Function FixedRound( A : TFixed) : Integer
8629:   Function FixedSqr( Value : TFixed) : TFixed
8630:   Function FixedSqrtLP( Value : TFixed) : TFixed
8631:   Function FixedSqrtHP( Value : TFixed) : TFixed
8632:   Function FixedCombine( W, X, Y : TFixed) : TFixed
8633:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat);
8634:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single);
8635:   Function GRHypot( const X, Y : TFloat) : TFloat;
8636:   Function Hypot1( const X, Y : Integer) : Integer;
8637:   Function FastSqrt( const Value : TFloat) : TFloat
8638:   Function FastSqrtBab1( const Value : TFloat) : TFloat
8639:   Function FastSqrtBab2( const Value : TFloat) : TFloat
8640:   Function FastInvSqrt( const Value : Single) : Single;
8641:   Function MulDiv( Multiplicand, Multiplier, Divisor : Integer) : Integer
8642:   Function GRIsPowerOf2( Value : Integer) : Boolean
8643:   Function PrevPowerOf2( Value : Integer) : Integer

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8644: Function NextPowerOf2( Value : Integer) : Integer
8645: Function Average( A, B : Integer) : Integer
8646: Function GRSign( Value : Integer) : Integer
8647: Function FloatMod( x, y : Double) : Double
8648: end;
8649:
8650: procedure SIRegister_GR32_LowLevel(CL: TPSPascalCompiler);
8651: begin
8652:   Function Clamp( const Value : Integer) : Integer;
8653:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword)
8654:   Function StackAlloc( Size : Integer) : Pointer
8655:   Procedure StackFree( P : Pointer)
8656:   Procedure Swap( var A, B : Pointer);
8657:   Procedure Swap1( var A, B : Integer);
8658:   Procedure Swap2( var A, B : TFixed);
8659:   Procedure Swap3( var A, B : TColor32);
8660:   Procedure TestSwap( var A, B : Integer);
8661:   Procedure TestSwap1( var A, B : TFixed);
8662:   Function TestClip( var A, B : Integer; const Size : Integer) : Boolean;
8663:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer) : Boolean;
8664:   Function GRConstrain( const Value, Lo, Hi : Integer) : Integer;
8665:   Function Constrain1( const Value, Lo, Hi : Single) : Single;
8666:   Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer) : Integer
8667:   Function GRMin( const A, B, C : Integer) : Integer;
8668:   Function GRMax( const A, B, C : Integer) : Integer;
8669:   Function Clamp( Value, Max : Integer) : Integer;
8670:   Function Clamp1( Value, Min, Max : Integer) : Integer;
8671:   Function Wrap( Value, Max : Integer) : Integer;
8672:   Function Wrap1( Value, Min, Max : Integer) : Integer;
8673:   Function Wrap3( Value, Max : Single) : Single;;
8674:   Function WrapPow2( Value, Max : Integer) : Integer;
8675:   Function WrapPow21( Value, Min, Max : Integer) : Integer;
8676:   Function Mirror( Value, Max : Integer) : Integer;
8677:   Function Mirror1( Value, Min, Max : Integer) : Integer;
8678:   Function MirrorPow2( Value, Max : Integer) : Integer;
8679:   Function MirrorPow21( Value, Min, Max : Integer) : Integer;
8680:   Function GetOptimalWrap( Max : Integer) : TWrapProc;
8681:   Function GetOptimalWrap1( Min, Max : Integer) : TWrapProcEx;
8682:   Function GetOptimalMirror( Max : Integer) : TWrapProc;
8683:   Function GetOptimalMirror1( Min, Max : Integer) : TWrapProcEx;
8684:   Function GetWrapProc( WrapMode : TWrapMode) : TWrapProc;
8685:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer) : TWrapProc;
8686:   Function GetWrapProcEx( WrapMode : TWrapMode) : TWrapProcEx;
8687:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer):TWrapProcEx;
8688:   Function Div255( Value : Cardinal) : Cardinal
8689:   Function SAR_4( Value : Integer) : Integer
8690:   Function SAR_8( Value : Integer) : Integer
8691:   Function SAR_9( Value : Integer) : Integer
8692:   Function SAR_11( Value : Integer) : Integer
8693:   Function SAR_12( Value : Integer) : Integer
8694:   Function SAR_13( Value : Integer) : Integer
8695:   Function SAR_14( Value : Integer) : Integer
8696:   Function SAR_15( Value : Integer) : Integer
8697:   Function SAR_16( Value : Integer) : Integer
8698:   Function ColorSwap( WinColor : TColor) : TColor32
8699: end;
8700:
8701: procedure SIRegister_GR32_Filters(CL: TPSPascalCompiler);
8702: begin
8703:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )
8704:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components);
8705:   Procedure CopyComponents1(Dst:TCustomBmap32;DstX,
DstY:Integer;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8706:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32)
8707:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean)
8708:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32)
8709:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components)
8710:   Procedure InvertRGB( Dst, Src : TCustomBitmap32)
8711:   Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean)
8712:   Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32)
8713:   Function CreateBitmap( Components : TColor32Components) : TColor32
8714:   Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
Bitmask : TColor32; LogicalOperator : TLogicalOperator);
8715:   Procedure
ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8716:   Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizedDst : Boolean)
8717: end;
8718:
8719:
8720: procedure SIRegister_JclNTFS(CL: TPSPascalCompiler);
8721: begin
8722:   AddClassN(FindClass('OBJECT'),'EJclNtfsError
8723:   AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )
8724:   Function NtfsGetCompression( const FileName : string; var State : Short) : Boolean;
8725:   Function NtfsGetCompression1( const FileName : string) : TFileCompressionState;
8726:   Function NtfsSetCompression( const FileName : string; const State : Short) : Boolean
8727:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState)
8728:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState)
8729:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState)

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8730: Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState;Recursive:Boolean;
8731: //AddTypes('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloca'
8732: //+'tedRangeBuffer; MoreData : Boolean; end
8733: Function NtfsSetSparse( const FileName : string) : Boolean
8734: Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64) : Boolean
8735: Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64) : Boolean
8736: //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Int64;var
Ranges:TNTfsAllocRanges):Boolean;
8737: //Function NtfsGetAllocRangeEntry( const Ranges : TNTfsAllocRanges;
Index:Integer).TFileAllocatedRangeBuffer
8738: Function NtfsSparseStreamsSupported( const Volume : string) : Boolean
8739: Function NtfsGetSparse( const FileName : string) : Boolean
8740: Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD) : Boolean
8741: Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword) : Boolean
8742: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8743: Function NtfsGetReparseTag( const Path : string; var Tag : DWORD) : Boolean
8744: Function NtfsReparsePointsSupported( const Volume : string) : Boolean
8745: Function NtfsFileHasReparsePoint( const Path : string) : Boolean
8746: Function NtfsFolderMountPoint( const Path : string) : Boolean
8747: Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char) : Boolean
8748: Function NtfsMountVolume( const Volume : Char; const MountPoint : string) : Boolean
8749: AddTypes('TTopLock', '( olExclusive, olReadOnly, olBatch, olFilter )
8750: Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped) : Boolean
8751: Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped) : Boolean
8752: Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped) : Boolean
8753: Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped) : Boolean
8754: Function NtfsRequestOpLock( Handle : THandle; Kind : TTopLock; Overlapped : TOverlapped) : Boolean
8755: Function NtfsCreateJunctionPoint( const Source, Destination : string) : Boolean
8756: Function NtfsDeleteJunctionPoint( const Source : string) : Boolean
8757: Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string) : Boolean
8758: AddTypes('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8759: + 'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )
8760: AddTypes('TStreamIds', 'set of TStreamId
8761: AddTypes('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8762: + ': __Pointer; StreamIds : TStreamIds; end
8763: AddTypes('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8764: + 'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8765: Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8766: Function NtfsFindNextStream( var Data : TFindStreamData) : Boolean
8767: Function NtfsFindStreamClose( var Data : TFindStreamData) : Boolean
8768: Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string) : Boolean
8769: AddTypes('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8770: Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNTfsHardLinkInfo) : Boolean
8771: Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
List:TStrings):Bool;
8772: Function NtfsDeleteHardLinks( const FileName : string) : Boolean
8773: Function JclAppInstances : TJclAppInstances;
8774: Function JclAppInstances1( const UniqueAppIdGuidStr : string) : TJclAppInstances;
8775: Function ReadMessageCheck( var Message : TMessage;const IgnoredOriginatorWnd: HWND) : TJclAppInstDataKind
8776: Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer)
8777: Procedure ReadMessageString( const Message : TMessage; var S : string)
8778: Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings)
8779:
8780:
8781: (/*-----*)
8782: procedure SIRegister_JclGraphics(CL: TPSPascalCompiler);
8783: begin
8784: FindClass('TOBJECT'),'EJclGraphicsError
8785: TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8786: TDynPointArray', 'array of TPoint
8787: TDynDynPointArrayArray', 'array of TDynPointArray
8788: TPointF', 'record X : Single; Y : Single; end
8789: TDynPointArrayF', 'array of TPointF
8790: TDrawMode2', '( dmOpaque, dmBlend )
8791: TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8792: TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8793: TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8794: TMatrix3d', 'record array[0..2,0..2] of extended end
8795: TDynDynPointArrayArrayF', 'array of TDynPointArrayF
8796: TScanLine', 'array of Integer
8797: TScanLines', 'array of TScanLine
8798: TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8799: TGradientDirection', '( gdVertical, gdHorizontal )
8800: TPolyFillMode', '( fmAlternate, fmWinding )
8801: TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8802: TJclRegionBitmapMode', '( rmInclude, rmExclude )
8803: TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8804: SIRegister_TJclDesktopCanvas(CL);
8805: FindClass('TOBJECT'),'TJclRegion
8806: SIRegister_TJclRegionInfo(CL);
8807: SIRegister_TJclRegion(CL);
8808: SIRegister_TJclThreadPersistent(CL);
8809: SIRegister_TJclCustomMap(CL);
8810: SIRegister_TJclBitmap32(CL);
8811: SIRegister_TJclByteMap(CL);
8812: SIRegister_TJclTransformation(CL);
8813: SIRegister_TJclLinearTransformation(CL);
8814: Procedure Stretch(NewWidth,
NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);

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8815: Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8816: Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8817: Function GetAntialiasedBitmap( const Bitmap : TBitmap) : TBitmap
8818: Procedure BitmapToJPeg( const FileName : string)
8819: Procedure JPegToBitmap( const FileName : string)
8820: Function ExtractIconCount( const FileName : string) : Integer
8821: Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer) : HICON
8822: Function IconToBitmapJ( Icon : HICON) : HBITMAP
8823: Procedure
BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8824: Procedure StretchTransfer(Dst:TJclBitmap32;
DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8825: Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8826: Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect)
8827: Function FillGradient(DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection :
TGradientDirection) : Boolean;
8828: Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
RegionBitmapMode:TJclRegionBitmapMode): HRGN
8829: Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND);
8830: Procedure ScreenShot1( bm : TBitmap);
8831: Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8832: Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8833: Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8834: Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8835: Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8836: Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8837: Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8838: Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8839: Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArrayF;Color:TColor32);
8840: Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32)
8841: Procedure IntensityToAlpha( Dst, Src : TJclBitmap32)
8842: Procedure Invert( Dst, Src : TJclBitmap32)
8843: Procedure InvertRGB( Dst, Src : TJclBitmap32)
8844: Procedure ColorToGrayscale( Dst, Src : TJclBitmap32)
8845: Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8)
8846: Procedure SetGamma( Gamma : Single)
8847: end;
8848:
8849: (*-----*)
8850: procedure SIRegister_JclSynch(CL: TPSPascalCompiler);
8851: begin
8852: Function LockedAdd( var Target : Integer; Value : Integer) : Integer
8853: Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer) : Integer;
8854: Function LockedCompareExchangel( var Target : __Pointer; Exch, Comp : __Pointer) : Pointer;
8855: Function LockedDec( var Target : Integer) : Integer
8856: Function LockedExchange( var Target : Integer; Value : Integer) : Integer
8857: Function LockedExchangeAdd( var Target : Integer; Value : Integer) : Integer
8858: Function LockedExchangeDec( var Target : Integer) : Integer
8859: Function LockedExchangeInc( var Target : Integer) : Integer
8860: Function LockedExchangeSub( var Target : Integer; Value : Integer) : Integer
8861: Function LockedInc( var Target : Integer) : Integer
8862: Function LockedSub( var Target : Integer; Value : Integer) : Integer
8863: TJclWaitResult, '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8864: SIRegister_TJclDispatcherObject(CL);
8865: Function WaitForMultipleObjects(const Objects:array of
TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8866: Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
TimeOut : Cardinal):Cardinal
8867: SIRegister_TJclCriticalSection(CL);
8868: SIRegister_TJclCriticalSectionEx(CL);
8869: SIRegister_TJclEvent(CL);
8870: SIRegister_TJclWaitableTimer(CL);
8871: SIRegister_TJclSemaphore(CL);
8872: SIRegister_TJclMutex(CL);
8873: POptexSharedInfo', '^TOptexSharedInfo // will not work
8874: TOptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8875: SIRegister_TJclOptex(CL);
8876: TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8877: TMrewThreadInfo', 'record ThreadId : Longword; RecursionCount: Integer; Reader : Boolean; end
8878: TMrewThreadInfoArray', 'array of TMrewThreadInfo
8879: SIRegister_TJclMultiReadExclusiveWrite(CL);
8880: PMetSectSharedInfo', '^TMetSectSharedInfo // will not work
8881: TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '
+ 'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8882: PMeteredSection', '^TMeteredSection // will not work
8884: TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8885: SIRegister_TJclMeteredSection(CL);
8886: TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8887: TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8888: TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8889: TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8890: Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTLCriticalSection) : Boolean
8891: Function QueryEvent( Handle : THandle; var Info : TEventInfo) : Boolean
8892: Function QueryMutex( Handle : THandle; var Info : TMutexInfo) : Boolean
8893: Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts) : Boolean
8894: Function QueryTimer( Handle : THandle; var Info : TTimerInfo) : Boolean
8895: FindClass('TOBJECT'),'EJclWin32HandleObjectError
8896: FindClass('TOBJECT'),'EJclDispatcherObjectError
8897: FindClass('TOBJECT'),'EJclCriticalSectionError

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8898: FindClass('TOBJECT'),'EJclEventError
8899: FindClass('TOBJECT'),'EJclWaitableTimerError
8900: FindClass('TOBJECT'),'EJclSemaphoreError
8901: FindClass('TOBJECT'),'EJclMutexError
8902: FindClass('TOBJECT'),'EJclMeteredSectionError
8903: end;
8904:
8905:
8906: //*****unit uPSI_mORMotReport;
8907: Procedure SetCurrentPrinterAsDefault
8908: Function CurrentPrinterName : string
8909: Function mCurrentPrinterPaperSize : string
8910: Procedure UseDefaultPrinter
8911:
8912: procedure SIRegisterTSTREAM(C1: TPSPascalCompiler);
8913: begin
8914:   with FindClass('TOBJECT'), 'TStream' do begin
8915:     IsAbstract := True;
8916:     //RegisterMethod('Function Read( var Buffer, Count : Longint) : Longint
8917:     // RegisterMethod('Function Write( const Buffer, Count : Longint) : Longint
8918:     function Read(Buffer:String;Count:LongInt):LongInt
8919:     function Write(Buffer:String;Count:LongInt):LongInt
8920:     function ReadString(Buffer:String;Count:LongInt):LongInt //FileStream
8921:     function WriteString(Buffer:String;Count:LongInt):LongInt
8922:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
8923:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
8924:     procedure ReadAB(Buffer: TByteArray;Count:LongInt)
8925:     procedure WriteAB(Buffer: TByteArray;Count:LongInt)
8926:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
8927:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
8928:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
8929:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
8930:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
8931:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
8932:
8933:     function Seek(Offset:LongInt;Origin:Word):LongInt
8934:     procedure ReadBuffer(Buffer:String;Count:LongInt)
8935:     procedure WriteBuffer(Buffer:String;Count:LongInt)
8936:     procedure ReadBufferInt(Buffer:Integer;Count:LongInt)');
8937:     procedure WriteBufferInt(Buffer:Integer;Count:LongInt)');
8938:     procedure ReadBufferFloat(Buffer:Double;Count:LongInt)');
8939:     procedure WriteBufferFloat(Buffer:Double;Count:LongInt)');
8940:
8941:     procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
8942:     procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
8943:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
8944:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
8945:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8946:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8947:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8948:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8949:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8950:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8951:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8952:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8953:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8954:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8955:
8956:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
8957:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
8958:     procedure ReadBufferO(Buffer: TObject;Count:LongInt)');
8959:     procedure WriteBufferO(Buffer: TObject;Count:LongInt)');
8960:     //READBUFFERAC
8961:     function InstanceSize: Longint
8962:     Procedure FixupResourceHeader( FixupInfo : Integer)
8963:     Procedure ReadResHeader
8964:
8965:     {$IFDEF DELPHI4UP}
8966:     function CopyFrom(Source:TStream;Count:Int64):LongInt
8967:     {$ELSE}
8968:     function CopyFrom(Source:TStream;Count:Integer):LongInt
8969:     {$ENDIF}
8970:     RegisterProperty('Position', 'LongInt', iptrw);
8971:     RegisterProperty('Size', 'LongInt', iptrw);
8972:   end;
8973: end;
8974:
8975:
8976: { *****
8977: Unit DMATH - Interface for DMATH.DLL
8978: ***** }
8979: // see more docs/dmath_manual.pdf
8980:
8981: Function InitEval : Integer
8982: Procedure SetVariable( VarName : Char; Value : Float)
8983: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
8984: Function Eval( ExpressionString : String) : Float
8985:
8986: unit dmath; //types are in built, others are external in DLL

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8987: interface
8988:   {$IFDEF DELPHI}
8989:   uses
8990:     StdCtrls, Graphics;
8991:   {$ENDIF}
8992:   { -----
8993:     Types and constants
8994:   ----- }
8995:   {$i types.inc}
8996:   { -----
8997:     Error handling
8998:   ----- }
8999:   procedure SetErrCode(ErrCode : Integer); external 'dmath';
9000:   { Sets the error code }
9001:   function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9002:   { Sets error code and default function value }
9003:   function MathErr : Integer; external 'dmath';
9004:   { Returns the error code }
9005:   { -----
9006:     Dynamic arrays
9007:   ----- }
9008:   procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9009:   { Sets the auto-initialization of arrays }
9010:   procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9011:   { Creates floating point vector V[0..Ub] }
9012:   procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9013:   { Creates integer vector V[0..Ub] }
9014:   procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9015:   { Creates complex vector V[0..Ub] }
9016:   procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9017:   { Creates boolean vector V[0..Ub] }
9018:   procedure DimStrVector(var V : TStrVector; Ub : Integer); external 'dmath';
9019:   { Creates string vector V[0..Ub] }
9020:   procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9021:   { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9022:   procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9023:   { Creates integer matrix A[0..Ub1, 0..Ub2] }
9024:   procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9025:   { Creates complex matrix A[0..Ub1, 0..Ub2] }
9026:   procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9027:   { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9028:   procedure DimStrMatrix(var A : TStrMatrix; Ub1, Ub2 : Integer); external 'dmath';
9029:   { Creates string matrix A[0..Ub1, 0..Ub2] }
9030:   { -----
9031:     Minimum, maximum, sign and exchange
9032:   ----- }
9033:   function FMin(X, Y : Float) : Float; external 'dmath';
9034:   { Minimum of 2 reals }
9035:   function FMax(X, Y : Float) : Float; external 'dmath';
9036:   { Maximum of 2 reals }
9037:   function IMin(X, Y : Integer) : Integer; external 'dmath';
9038:   { Minimum of 2 integers }
9039:   function IMax(X, Y : Integer) : Integer; external 'dmath';
9040:   { Maximum of 2 integers }
9041:   function Sgn(X : Float) : Integer; external 'dmath';
9042:   { Sign (returns 1 if X = 0) }
9043:   function Sgn0(X : Float) : Integer; external 'dmath';
9044:   { Sign (returns 0 if X = 0) }
9045:   function DSgn(A, B : Float) : Float; external 'dmath';
9046:   { Sgn(B) * |A| }
9047:   procedure FSwap(var X, Y : Float); external 'dmath';
9048:   { Exchange 2 reals }
9049:   procedure ISwap(var X, Y : Integer); external 'dmath';
9050:   { Exchange 2 integers }
9051:   { -----
9052:     Rounding functions
9053:   ----- }
9054:   function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9055:   { Rounds X to N decimal places }
9056:   function Ceil(X : Float) : Integer; external 'dmath';
9057:   { Ceiling function }
9058:   function Floor(X : Float) : Integer; external 'dmath';
9059:   { Floor function }
9060:   { -----
9061:     Logarithms, exponentials and power
9062:   ----- }
9063:   function Expo(X : Float) : Float; external 'dmath';
9064:   { Exponential }
9065:   function Exp2(X : Float) : Float; external 'dmath';
9066:   { 2^X }
9067:   function Exp10(X : Float) : Float; external 'dmath';
9068:   { 10^X }
9069:   function Log(X : Float) : Float; external 'dmath';
9070:   { Natural log }
9071:   function Log2(X : Float) : Float; external 'dmath';
9072:   { Log, base 2 }
9073:   function Log10(X : Float) : Float; external 'dmath';
9074:   { Decimal log }
9075:   function LogA(X, A : Float) : Float; external 'dmath';

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9076: { Log, base A }
9077: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9078: { X^N }
9079: function Power(X, Y : Float) : Float; external 'dmath';
9080: { X^Y, X >= 0 }
9081: { -----
9082:   Trigonometric functions
9083:   ----- }
9084: function Pythag(X, Y : Float) : Float; external 'dmath';
9085: { Sqrt(X^2 + Y^2) }
9086: function FixAngle(Theta : Float) : Float; external 'dmath';
9087: { Set Theta in -Pi..Pi }
9088: function Tan(X : Float) : Float; external 'dmath';
9089: { Tangent }
9090: function ArcSin(X : Float) : Float; external 'dmath';
9091: { Arc sinus }
9092: function ArcCos(X : Float) : Float; external 'dmath';
9093: { Arc cosinus }
9094: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9095: { Angle (Ox, OM) with M(X,Y) }
9096: { -----
9097:   Hyperbolic functions
9098:   ----- }
9099: function Sinh(X : Float) : Float; external 'dmath';
9100: { Hyperbolic sine }
9101: function Cosh(X : Float) : Float; external 'dmath';
9102: { Hyperbolic cosine }
9103: function Tanh(X : Float) : Float; external 'dmath';
9104: { Hyperbolic tangent }
9105: function ArcSinh(X : Float) : Float; external 'dmath';
9106: { Inverse hyperbolic sine }
9107: function ArcCosh(X : Float) : Float; external 'dmath';
9108: { Inverse hyperbolic cosine }
9109: function ArcTanh(X : Float) : Float; external 'dmath';
9110: { Inverse hyperbolic tangent }
9111: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9112: { Sinh & Cosh }
9113: { -----
9114:   Gamma function and related functions
9115:   ----- }
9116: function Fact(N : Integer) : Float; external 'dmath';
9117: { Factorial }
9118: function SgnGamma(X : Float) : Integer; external 'dmath';
9119: { Sign of Gamma function }
9120: function Gamma(X : Float) : Float; external 'dmath';
9121: { Gamma function }
9122: function LnGamma(X : Float) : Float; external 'dmath';
9123: { Logarithm of Gamma function }
9124: function Stirling(X : Float) : Float; external 'dmath';
9125: { Stirling's formula for the Gamma function }
9126: function StirLog(X : Float) : Float; external 'dmath';
9127: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9128: function DiGamma(X : Float) : Float; external 'dmath';
9129: { Digamma function }
9130: function TriGamma(X : Float) : Float; external 'dmath';
9131: { Trigamma function }
9132: function IGamma(A, X : Float) : Float; external 'dmath';
9133: { Incomplete Gamma function }
9134: function JGamma(A, X : Float) : Float; external 'dmath';
9135: { Complement of incomplete Gamma function }
9136: function InvGamma(A, P : Float) : Float; external 'dmath';
9137: { Inverse of incomplete Gamma function }
9138: function Erf(X : Float) : Float; external 'dmath';
9139: { Error function }
9140: function Erfc(X : Float) : Float; external 'dmath';
9141: { Complement of error function }
9142: { -----
9143:   Beta function and related functions
9144:   ----- }
9145: function Beta(X, Y : Float) : Float; external 'dmath';
9146: { Beta function }
9147: function IBeta(A, B, X : Float) : Float; external 'dmath';
9148: { Incomplete Beta function }
9149: function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9150: { Inverse of incomplete Beta function }
9151: { -----
9152:   Lambert's function
9153:   ----- }
9154: function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9155: { -----
9156:   Binomial distribution
9157:   ----- }
9158: function Binomial(N, K : Integer) : Float; external 'dmath';
9159: { Binomial coefficient C(N,K) }
9160: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9161: { Probability of binomial distribution }
9162: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9163: { Cumulative probability for binomial distrib. }
9164: { -----

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9165:   Poisson distribution
9166:   ----- }
9167: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9168: { Probability of Poisson distribution }
9169: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9170: { Cumulative probability for Poisson distrib. }
9171: { ----- }
9172:   Exponential distribution
9173:   ----- }
9174: function DExpo(A, X : Float) : Float; external 'dmath';
9175: { Density of exponential distribution with parameter A }
9176: function FExpo(A, X : Float) : Float; external 'dmath';
9177: { Cumulative probability function for exponential dist. with parameter A }
9178: { ----- }
9179:   Standard normal distribution
9180:   ----- }
9181: function DNorm(X : Float) : Float; external 'dmath';
9182: { Density of standard normal distribution }
9183: function FNorm(X : Float) : Float; external 'dmath';
9184: { Cumulative probability for standard normal distrib. }
9185: function PNorm(X : Float) : Float; external 'dmath';
9186: { Prob(|U| > X) for standard normal distrib. }
9187: function InvNorm(P : Float) : Float; external 'dmath';
9188: { Inverse of standard normal distribution }
9189: { ----- }
9190:   Student's distribution
9191:   ----- }
9192: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9193: { Density of Student distribution with Nu d.o.f. }
9194: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9195: { Cumulative probability for Student distrib. with Nu d.o.f. }
9196: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9197: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9198: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9199: { Inverse of Student's t-distribution function }
9200: { ----- }
9201:   Khi-2 distribution
9202:   ----- }
9203: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9204: { Density of Khi-2 distribution with Nu d.o.f. }
9205: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9206: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9207: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9208: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9209: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9210: { Inverse of Khi-2 distribution function }
9211: { ----- }
9212:   Fisher-Snedecor distribution
9213:   ----- }
9214: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9215: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9216: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9217: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9218: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9219: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9220: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9221: { Inverse of Snedecor's F-distribution function }
9222: { ----- }
9223:   Beta distribution
9224:   ----- }
9225: function DBeta(A, B, X : Float) : Float; external 'dmath';
9226: { Density of Beta distribution with parameters A and B }
9227: function FBeta(A, B, X : Float) : Float; external 'dmath';
9228: { Cumulative probability for Beta distrib. with param. A and B }
9229: { ----- }
9230:   Gamma distribution
9231:   ----- }
9232: function DGamma(A, B, X : Float) : Float; external 'dmath';
9233: { Density of Gamma distribution with parameters A and B }
9234: function FGamma(A, B, X : Float) : Float; external 'dmath';
9235: { Cumulative probability for Gamma distrib. with param. A and B }
9236: { ----- }
9237:   Expression evaluation
9238:   ----- }
9239: function InitEval : Integer; external 'dmath';
9240: { Initializes built-in functions and returns their number }
9241: function Eval(ExpressionString : String) : Float; external 'dmath';
9242: { Evaluates an expression at run-time }
9243: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9244: { Assigns a value to a variable }
9245: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9246: { Adds a function to the parser }
9247: { ----- }
9248:   Matrices and linear equations
9249:   ----- }
9250: procedure GaussJordan(A          : TMatrix;
9251:                      Lb, Ub1, Ub2 : Integer;
9252:                      var Det      : Float); external 'dmath';
9253: { Transforms a matrix according to the Gauss-Jordan method }

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9254: procedure LinEq(A      : TMatrix;
9255:                B      : TVector;
9256:                Lb, Ub  : Integer;
9257:                var Det  : Float); external 'dmath';
9258: { Solves a linear system according to the Gauss-Jordan method }
9259: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9260: { Cholesky factorization of a positive definite symmetric matrix }
9261: procedure LU_Decom(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9262: { LU decomposition }
9263: procedure LU_Solve(A      : TMatrix;
9264:                  B      : TVector;
9265:                  Lb, Ub  : Integer;
9266:                  X      : TVector); external 'dmath';
9267: { Solution of linear system from LU decomposition }
9268: procedure QR_Decom(A      : TMatrix;
9269:                  Lb, Ub1, Ub2 : Integer;
9270:                  R      : TMatrix); external 'dmath';
9271: { QR decomposition }
9272: procedure QR_Solve(Q, R      : TMatrix;
9273:                  B      : TVector;
9274:                  Lb, Ub1, Ub2 : Integer;
9275:                  X      : TVector); external 'dmath';
9276: { Solution of linear system from QR decomposition }
9277: procedure SV_Decom(A      : TMatrix;
9278:                  Lb, Ub1, Ub2 : Integer;
9279:                  S      : TVector;
9280:                  V      : TMatrix); external 'dmath';
9281: { Singular value decomposition }
9282: procedure SV_SetZero(S      : TVector;
9283:                   Lb, Ub  : Integer;
9284:                   Tol  : Float); external 'dmath';
9285: { Set lowest singular values to zero }
9286: procedure SV_Solve(U      : TMatrix;
9287:                  S      : TVector;
9288:                  V      : TMatrix;
9289:                  B      : TVector;
9290:                  Lb, Ub1, Ub2 : Integer;
9291:                  X      : TVector); external 'dmath';
9292: { Solution of linear system from SVD }
9293: procedure SV_Approx(U      : TMatrix;
9294:                   S      : TVector;
9295:                   V      : TMatrix;
9296:                   Lb, Ub1, Ub2 : Integer;
9297:                   A      : TMatrix); external 'dmath';
9298: { Matrix approximation from SVD }
9299: procedure EigenVals(A      : TMatrix;
9300:                   Lb, Ub  : Integer;
9301:                   Lambda  : TCompVector); external 'dmath';
9302: { Eigenvalues of a general square matrix }
9303: procedure EigenVect(A      : TMatrix;
9304:                   Lb, Ub  : Integer;
9305:                   Lambda  : TCompVector;
9306:                   V      : TMatrix); external 'dmath';
9307: { Eigenvalues and eigenvectors of a general square matrix }
9308: procedure EigenSym(A      : TMatrix;
9309:                   Lb, Ub  : Integer;
9310:                   Lambda  : TVector;
9311:                   V      : TMatrix); external 'dmath';
9312: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9313: procedure Jacobi(A      : TMatrix;
9314:                 Lb, Ub, MaxIter : Integer;
9315:                 Tol          : Float;
9316:                 Lambda      : TVector;
9317:                 V          : TMatrix); external 'dmath';
9318: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9319: { -----
9320:   Optimization
9321:   ----- }
9322: procedure MinBrack(Func      : TFunc;
9323:                  var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9324: { Brackets a minimum of a function }
9325: procedure GoldSearch(Func      : TFunc;
9326:                    A, B      : Float;
9327:                    MaxIter   : Integer;
9328:                    Tol       : Float;
9329:                    var Xmin, Ymin : Float); external 'dmath';
9330: { Minimization of a function of one variable (golden search) }
9331: procedure LinMin(Func      : TFuncNVar;
9332:                 X, DeltaX  : TVector;
9333:                 Lb, Ub    : Integer;
9334:                 var R      : Float;
9335:                 MaxIter   : Integer;
9336:                 Tol       : Float;
9337:                 var F_min  : Float); external 'dmath';
9338: { Minimization of a function of several variables along a line }
9339: procedure Newton(Func      : TFuncNVar;
9340:                 HessGrad   : THessGrad;
9341:                 X          : TVector;
9342:                 Lb, Ub    : Integer;

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9343:         MaxIter      : Integer;
9344:         Tol           : Float;
9345:         var F_min     : Float;
9346:         G             : TVector;
9347:         H_inv         : TMatrix;
9348:         var Det       : Float); external 'dmath';
9349: { Minimization of a function of several variables (Newton's method) }
9350: procedure SaveNewton(FileName : string); external 'dmath';
9351: { Save Newton iterations in a file }
9352: procedure Marquardt(Func      : TFuncNVar;
9353:                    HessGrad  : THessGrad;
9354:                    X         : TVector;
9355:                    Lb, Ub    : Integer;
9356:                    MaxIter   : Integer;
9357:                    Tol       : Float;
9358:                    var F_min : Float;
9359:                    G         : TVector;
9360:                    H_inv     : TMatrix;
9361:                    var Det   : Float); external 'dmath';
9362: { Minimization of a function of several variables (Marquardt's method) }
9363: procedure SaveMarquardt(FileName : string); external 'dmath';
9364: { Save Marquardt iterations in a file }
9365: procedure BFGS(Func      : TFuncNVar;
9366:                Gradient : TGradient;
9367:                X         : TVector;
9368:                Lb, Ub    : Integer;
9369:                MaxIter   : Integer;
9370:                Tol       : Float;
9371:                var F_min : Float;
9372:                G         : TVector;
9373:                H_inv     : TMatrix); external 'dmath';
9374: { Minimization of a function of several variables (BFGS method) }
9375: procedure SaveBFGS(FileName : string); external 'dmath';
9376: { Save BFGS iterations in a file }
9377: procedure Simplex(Func      : TFuncNVar;
9378:                  X         : TVector;
9379:                  Lb, Ub    : Integer;
9380:                  MaxIter   : Integer;
9381:                  Tol       : Float;
9382:                  var F_min : Float); external 'dmath';
9383: { Minimization of a function of several variables (Simplex) }
9384: procedure SaveSimplex(FileName : string); external 'dmath';
9385: { Save Simplex iterations in a file }
9386: { -----
9387:   Nonlinear equations
9388:   ----- }
9389: procedure RootBrack(Func      : TFunc;
9390:                    var X, Y, FX, FY : Float); external 'dmath';
9391: { Brackets a root of function Func between X and Y }
9392: procedure Bisect(Func      : TFunc;
9393:                 var X, Y : Float;
9394:                 MaxIter   : Integer;
9395:                 Tol       : Float;
9396:                 var F     : Float); external 'dmath';
9397: { Bisection method }
9398: procedure Secant(Func      : TFunc;
9399:                 var X, Y : Float;
9400:                 MaxIter   : Integer;
9401:                 Tol       : Float;
9402:                 var F     : Float); external 'dmath';
9403: { Secant method }
9404: procedure NewtEq(Func, Deriv : TFunc;
9405:                 var X       : Float;
9406:                 MaxIter     : Integer;
9407:                 Tol         : Float;
9408:                 var F       : Float); external 'dmath';
9409: { Newton-Raphson method for a single nonlinear equation }
9410: procedure NewtEqs(Equations : TEquations;
9411:                 Jacobian    : TJacobian;
9412:                 X, F        : TVector;
9413:                 Lb, Ub      : Integer;
9414:                 MaxIter     : Integer;
9415:                 Tol         : Float); external 'dmath';
9416: { Newton-Raphson method for a system of nonlinear equations }
9417: procedure Broyden(Equations : TEquations;
9418:                 X, F        : TVector;
9419:                 Lb, Ub      : Integer;
9420:                 MaxIter     : Integer;
9421:                 Tol         : Float); external 'dmath';
9422: { Broyden's method for a system of nonlinear equations }
9423: { -----
9424:   Polynomials and rational fractions
9425:   ----- }
9426: function Poly(X       : Float;
9427:              Coef     : TVector;
9428:              Deg      : Integer) : Float; external 'dmath';
9429: { Evaluates a polynomial }
9430: function RFrac(X       : Float;
9431:              Coef     : TVector;

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9432:         Deg1, Deg2 : Integer) : Float; external 'dmath';
9433: { Evaluates a rational fraction }
9434: function RootPol1(A, B : Float;
9435:     var X : Float) : Integer; external 'dmath';
9436: { Solves the linear equation A + B * X = 0 }
9437: function RootPol2(Coef : TVector;
9438:     Z : TCompVector) : Integer; external 'dmath';
9439: { Solves a quadratic equation }
9440: function RootPol3(Coef : TVector;
9441:     Z : TCompVector) : Integer; external 'dmath';
9442: { Solves a cubic equation }
9443: function RootPol4(Coef : TVector;
9444:     Z : TCompVector) : Integer; external 'dmath';
9445: { Solves a quartic equation }
9446: function RootPol(Coef : TVector;
9447:     Deg : Integer;
9448:     Z : TCompVector) : Integer; external 'dmath';
9449: { Solves a polynomial equation }
9450: function SetRealRoots(Deg : Integer;
9451:     Z : TCompVector;
9452:     Tol : Float) : Integer; external 'dmath';
9453: { Set the imaginary part of a root to zero }
9454: procedure SortRoots(Deg : Integer;
9455:     Z : TCompVector); external 'dmath';
9456: { Sorts the roots of a polynomial }
9457: { -----
9458:   Numerical integration and differential equations
9459:   ----- }
9460: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9461: { Integration by trapezoidal rule }
9462: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9463: { Integral from A to B }
9464: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9465: { Integral from 0 to B }
9466: function Convolve(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9467: { Convolution product at time T }
9468: procedure ConvTrap(Func1, Func2 : TFunc; T, Y : TVector; N : Integer); external 'dmath';
9469: { Convolution by trapezoidal rule }
9470: procedure RKF45(F : TDiffEqs;
9471:     Neqn : Integer;
9472:     Y, Yp : TVector;
9473:     var T : Float;
9474:     Tout, RelErr, AbsErr : Float;
9475:     var Flag : Integer); external 'dmath';
9476: { Integration of a system of differential equations }
9477: { -----
9478:   Fast Fourier Transform
9479:   ----- }
9480: procedure FFT(NumSamples : Integer;
9481:     InArray, OutArray : TCompVector); external 'dmath';
9482: { Fast Fourier Transform }
9483: procedure IFFT(NumSamples : Integer;
9484:     InArray, OutArray : TCompVector); external 'dmath';
9485: { Inverse Fast Fourier Transform }
9486: procedure FFT_Integer(NumSamples : Integer;
9487:     RealIn, ImagIn : TIntVector;
9488:     OutArray : TCompVector); external 'dmath';
9489: { Fast Fourier Transform for integer data }
9490: procedure FFT_Integer_Cleanup; external 'dmath';
9491: { Clear memory after a call to FFT_Integer }
9492: procedure CalcFrequency(NumSamples,
9493:     FrequencyIndex : Integer;
9494:     InArray : TCompVector;
9495:     var FFT : Complex); external 'dmath';
9496: { Direct computation of Fourier transform }
9497: { -----
9498:   Random numbers
9499:   ----- }
9500: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9501: { Select generator }
9502: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9503: { Initialize generator }
9504: function IRanGen : RNG_IntType; external 'dmath';
9505: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9506: function IRanGen31 : RNG_IntType; external 'dmath';
9507: { 31-bit random integer in [0 .. 2^31 - 1] }
9508: function RanGen1 : Float; external 'dmath';
9509: { 32-bit random real in [0,1] }
9510: function RanGen2 : Float; external 'dmath';
9511: { 32-bit random real in [0,1] }
9512: function RanGen3 : Float; external 'dmath';
9513: { 32-bit random real in (0,1) }
9514: function RanGen53 : Float; external 'dmath';
9515: { 53-bit random real in [0,1] }
9516: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9517: { Initializes the 'Multiply with carry' random number generator }
9518: function IRanMWC : RNG_IntType; external 'dmath';
9519: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9520: procedure InitMT(Seed : RNG_IntType); external 'dmath';

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9521: { Initializes Mersenne Twister generator with a seed }
9522: procedure InitMTbyArray(InitKey   : array of RNG_LongType;
9523:   KeyLength : Word); external 'dmath';
9524: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9525: function IRanMT : RNG_IntType; external 'dmath';
9526: { Random integer from MT generator }
9527: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9528: { Initializes the UVAG generator with a string }
9529: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9530: { Initializes the UVAG generator with an integer }
9531: function IRanUVAG : RNG_IntType; external 'dmath';
9532: { Random integer from UVAG generator }
9533: function RanGaussStd : Float; external 'dmath';
9534: { Random number from standard normal distribution }
9535: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9536: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9537: procedure RanMult(M      : TVector; L      : TMatrix;
9538:   Lb, Ub : Integer;
9539:   X      : TVector); external 'dmath';
9540: { Random vector from multinormal distribution (correlated) }
9541: procedure RanMultIndep(M, S : TVector;
9542:   Lb, Ub : Integer;
9543:   X      : TVector); external 'dmath';
9544: { Random vector from multinormal distribution (uncorrelated) }
9545: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9546: { Initializes Metropolis-Hastings parameters }
9547: procedure GetMHParams(var NCycles, MaxSim, SavedSim: Integer); external 'dmath';
9548: { Returns Metropolis-Hastings parameters }
9549: procedure Hastings(Func      : TFuncNVar;
9550:   T      : Float;
9551:   X      : TVector;
9552:   V      : TMatrix;
9553:   Lb, Ub : Integer;
9554:   Xmat   : TMatrix;
9555:   X_min  : TVector;
9556:   var F_min : Float); external 'dmath';
9557: { Simulation of a probability density function by Metropolis-Hastings }
9558: procedure InitSAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9559: { Initializes Simulated Annealing parameters }
9560: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9561: { Initializes log file }
9562: procedure SimAnn(Func      : TFuncNVar;
9563:   X, Xmin, Xmax : TVector;
9564:   Lb, Ub       : Integer;
9565:   var F_min    : Float); external 'dmath';
9566: { Minimization of a function of several var. by simulated annealing }
9567: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9568: { Initializes Genetic Algorithm parameters }
9569: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9570: { Initializes log file }
9571: procedure GenAlg(Func      : TFuncNVar;
9572:   X, Xmin, Xmax : TVector;
9573:   Lb, Ub       : Integer;
9574:   var F_min    : Float); external 'dmath';
9575: { Minimization of a function of several var. by genetic algorithm }
9576: { -----
9577:   Statistics
9578:   ----- }
9579: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9580: { Mean of sample X }
9581: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9582: { Minimum of sample X }
9583: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9584: { Maximum of sample X }
9585: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9586: { Median of sample X }
9587: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9588: { Standard deviation estimated from sample X }
9589: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9590: { Standard deviation of population }
9591: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9592: { Correlation coefficient }
9593: function Skewness(X : TVector; Lb, Ub : Integer; M, Sigma: Float) : Float; external 'dmath';
9594: { Skewness of sample X }
9595: function Kurtosis(X : TVector; Lb, Ub : Integer; M, Sigma: Float) : Float; external 'dmath';
9596: { Kurtosis of sample X }
9597: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9598: { Quick sort (ascending order) }
9599: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9600: { Quick sort (descending order) }
9601: procedure Interval(X1, X2      : Float;
9602:   MinDiv, MaxDiv      : Integer;
9603:   var Min, Max, Step : Float); external 'dmath';
9604: { Determines an interval for a set of values }
9605: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9606:   var XMin, XMax, XStep : Float); external 'dmath';
9607: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9608: procedure StudIndep(N1, N2      : Integer;
9609:   M1, M2, S1, S2 : Float);

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9610:         var T           : Float;
9611:         var DoF          : Integer); external 'dmath';
9612: { Student t-test for independent samples }
9613: procedure StudPaired(X, Y : TVector;
9614:   Lb, Ub : Integer;
9615:   var T   : Float;
9616:   var DoF : Integer); external 'dmath';
9617: { Student t-test for paired samples }
9618: procedure AnOVA1(Ns : Integer;
9619:   N : TIntVector;
9620:   M, S : TVector;
9621:   var V_f, V_r, F : Float;
9622:   var DoF_f, DoF_r : Integer); external 'dmath';
9623: { One-way analysis of variance }
9624: procedure AnOVA2(NA, NB, Nobs : Integer;
9625:   M, S : TMatrix;
9626:   V, F : TVector;
9627:   DoF : TIntVector); external 'dmath';
9628: { Two-way analysis of variance }
9629: procedure Snedecor(N1, N2 : Integer;
9630:   S1, S2 : Float;
9631:   var F   : Float;
9632:   var DoF1, DoF2 : Integer); external 'dmath';
9633: { Snedecor's F-test (comparison of two variances) }
9634: procedure Bartlett(Ns : Integer;
9635:   N : TIntVector;
9636:   S : TVector;
9637:   var Khi2 : Float;
9638:   var DoF : Integer); external 'dmath';
9639: { Bartlett's test (comparison of several variances) }
9640: procedure Mann_Whitney(N1, N2 : Integer;
9641:   X1, X2 : TVector;
9642:   var U, Eps : Float); external 'dmath';
9643: { Mann-Whitney test }
9644: procedure Wilcoxon(X, Y : TVector;
9645:   Lb, Ub : Integer;
9646:   var Ndiff : Integer;
9647:   var T, Eps : Float); external 'dmath';
9648: { Wilcoxon test }
9649: procedure Kruskal_Wallis(Ns : Integer;
9650:   N : TIntVector;
9651:   X : TMatrix;
9652:   var H : Float;
9653:   var DoF : Integer); external 'dmath';
9654: { Kruskal-Wallis test }
9655: procedure Khi2_Conform(N_cls : Integer;
9656:   N_estim : Integer;
9657:   Obs : TIntVector;
9658:   Calc : TVector;
9659:   var Khi2 : Float;
9660:   var DoF : Integer); external 'dmath';
9661: { Khi-2 test for conformity }
9662: procedure Khi2_Indep(N_lin : Integer;
9663:   N_col : Integer;
9664:   Obs : TIntMatrix;
9665:   var Khi2 : Float;
9666:   var DoF : Integer); external 'dmath';
9667: { Khi-2 test for independence }
9668: procedure Woolf_Conform(N_cls : Integer;
9669:   N_estim : Integer;
9670:   Obs : TIntVector;
9671:   Calc : TVector;
9672:   var G : Float;
9673:   var DoF : Integer); external 'dmath';
9674: { Woolf's test for conformity }
9675: procedure Woolf_Indep(N_lin : Integer;
9676:   N_col : Integer;
9677:   Obs : TIntMatrix;
9678:   var G : Float;
9679:   var DoF : Integer); external 'dmath';
9680: { Woolf's test for independence }
9681: procedure DimStatClassVector(var C : TStatClassVector;
9682:   Ub : Integer); external 'dmath';
9683: { Allocates an array of statistical classes: C[0..Ub] }
9684: procedure Distrib(X : TVector;
9685:   Lb, Ub : Integer;
9686:   A, B, H : Float;
9687:   C : TStatClassVector); external 'dmath';
9688: { Distributes an array X[Lb..Ub] into statistical classes }
9689: { -----
9690:   Linear / polynomial regression
9691:   ----- }
9692: procedure LinFit(X, Y : TVector;
9693:   Lb, Ub : Integer;
9694:   B : TVector;
9695:   V : TMatrix); external 'dmath';
9696: { Linear regression : Y = B(0) + B(1) * X }
9697: procedure WLinFit(X, Y, S : TVector;
9698:   Lb, Ub : Integer;

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9699:         B      : TVector;
9700:         V      : TMatrix); external 'dmath';
9701: { Weighted linear regression :  $Y = B(0) + B(1) * X$  }
9702: procedure SVDLinFit(X, Y : TVector;
9703:         Lb, Ub : Integer;
9704:         SVDTol : Float;
9705:         B      : TVector;
9706:         V      : TMatrix); external 'dmath';
9707: { Unweighted linear regression by singular value decomposition }
9708: procedure WSVDLinFit(X, Y, S : TVector;
9709:         Lb, Ub : Integer;
9710:         SVDTol : Float;
9711:         B      : TVector;
9712:         V      : TMatrix); external 'dmath';
9713: { Weighted linear regression by singular value decomposition }
9714: procedure MulFit(X : TMatrix;
9715:         Y : TVector;
9716:         Lb, Ub, Nvar : Integer;
9717:         ConstTerm : Boolean;
9718:         B : TVector;
9719:         V : TMatrix); external 'dmath';
9720: { Multiple linear regression by Gauss-Jordan method }
9721: procedure WMulFit(X : TMatrix;
9722:         Y, S : TVector;
9723:         Lb, Ub, Nvar : Integer;
9724:         ConstTerm : Boolean;
9725:         B : TVector;
9726:         V : TMatrix); external 'dmath';
9727: { Weighted multiple linear regression by Gauss-Jordan method }
9728: procedure SVDFit(X : TMatrix;
9729:         Y : TVector;
9730:         Lb, Ub, Nvar : Integer;
9731:         ConstTerm : Boolean;
9732:         SVDTol : Float;
9733:         B : TVector;
9734:         V : TMatrix); external 'dmath';
9735: { Multiple linear regression by singular value decomposition }
9736: procedure WSVDFit(X : TMatrix;
9737:         Y, S : TVector;
9738:         Lb, Ub, Nvar : Integer;
9739:         ConstTerm : Boolean;
9740:         SVDTol : Float;
9741:         B : TVector;
9742:         V : TMatrix); external 'dmath';
9743: { Weighted multiple linear regression by singular value decomposition }
9744: procedure PolFit(X, Y : TVector;
9745:         Lb, Ub, Deg : Integer;
9746:         B : TVector;
9747:         V : TMatrix); external 'dmath';
9748: { Polynomial regression by Gauss-Jordan method }
9749: procedure WPolFit(X, Y, S : TVector;
9750:         Lb, Ub, Deg : Integer;
9751:         B : TVector;
9752:         V : TMatrix); external 'dmath';
9753: { Weighted polynomial regression by Gauss-Jordan method }
9754: procedure SVDPolFit(X, Y : TVector;
9755:         Lb, Ub, Deg : Integer;
9756:         SVDTol : Float;
9757:         B : TVector;
9758:         V : TMatrix); external 'dmath';
9759: { Unweighted polynomial regression by singular value decomposition }
9760: procedure WSVDPolFit(X, Y, S : TVector;
9761:         Lb, Ub, Deg : Integer;
9762:         SVDTol : Float;
9763:         B : TVector;
9764:         V : TMatrix); external 'dmath';
9765: { Weighted polynomial regression by singular value decomposition }
9766: procedure RegTest(Y, Ycalc : TVector;
9767:         LbY, UbY : Integer;
9768:         V : TMatrix;
9769:         LbV, UbV : Integer;
9770:         var Test : TRegTest); external 'dmath';
9771: { Test of unweighted regression }
9772: procedure WRegTest(Y, Ycalc, S : TVector;
9773:         LbY, UbY : Integer;
9774:         V : TMatrix;
9775:         LbV, UbV : Integer;
9776:         var Test : TRegTest); external 'dmath';
9777: { Test of weighted regression }
9778: { -----
9779:     Nonlinear regression
9780:     ----- }
9781: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';
9782: { Sets the optimization algorithm for nonlinear regression }
9783: function GetOptAlgo : TOptAlgo; external 'dmath';
9784: { Returns the optimization algorithm }
9785: procedure SetMaxParam(N : Byte); external 'dmath';
9786: { Sets the maximum number of regression parameters for nonlinear regression }
9787: function GetMaxParam : Byte; external 'dmath';

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9788: { Returns the maximum number of regression parameters for nonlinear regression }
9789: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9790: { Sets the bounds on the I-th regression parameter }
9791: procedure GetParamBounds(I : Byte; var ParamMin, ParamMax:Float); external 'dmath';
9792: { Returns the bounds on the I-th regression parameter }
9793: procedure NLFit(RegFunc : TRegFunc;
9794:                DerivProc : TDerivProc;
9795:                X, Y : TVector;
9796:                Lb, Ub : Integer;
9797:                MaxIter : Integer;
9798:                Tol : Float;
9799:                B : TVector;
9800:                FirstPar,
9801:                LastPar : Integer;
9802:                V : TMatrix); external 'dmath';
9803: { Unweighted nonlinear regression }
9804: procedure WNLFit(RegFunc : TRegFunc;
9805:                 DerivProc : TDerivProc;
9806:                 X, Y, S : TVector;
9807:                 Lb, Ub : Integer;
9808:                 MaxIter : Integer;
9809:                 Tol : Float;
9810:                 B : TVector;
9811:                 FirstPar,
9812:                 LastPar : Integer;
9813:                 V : TMatrix); external 'dmath';
9814: { Weighted nonlinear regression }
9815: procedure SetMCFile(FileName : String); external 'dmath';
9816: { Set file for saving MCMC simulations }
9817: procedure SimFit(RegFunc : TRegFunc;
9818:                 X, Y : TVector;
9819:                 Lb, Ub : Integer;
9820:                 B : TVector;
9821:                 FirstPar,
9822:                 LastPar : Integer;
9823:                 V : TMatrix); external 'dmath';
9824: { Simulation of unweighted nonlinear regression by MCMC }
9825: procedure WSimFit(RegFunc : TRegFunc;
9826:                  X, Y, S : TVector;
9827:                  Lb, Ub : Integer;
9828:                  B : TVector;
9829:                  FirstPar,
9830:                  LastPar : Integer;
9831:                  V : TMatrix); external 'dmath';
9832: { Simulation of weighted nonlinear regression by MCMC }
9833: { -----
9834:   Nonlinear regression models
9835:   ----- }
9836: procedure FracFit(X, Y : TVector;
9837:                  Lb, Ub : Integer;
9838:                  Deg1, Deg2 : Integer;
9839:                  ConsTerm : Boolean;
9840:                  MaxIter : Integer;
9841:                  Tol : Float;
9842:                  B : TVector;
9843:                  V : TMatrix); external 'dmath';
9844: { Unweighted fit of rational fraction }
9845: procedure WFracFit(X, Y, S : TVector;
9846:                   Lb, Ub : Integer;
9847:                   Deg1, Deg2 : Integer;
9848:                   ConsTerm : Boolean;
9849:                   MaxIter : Integer;
9850:                   Tol : Float;
9851:                   B : TVector;
9852:                   V : TMatrix); external 'dmath';
9853: { Weighted fit of rational fraction }
9854:
9855: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9856: { Returns the value of the rational fraction at point X }
9857: procedure ExpFit(X, Y : TVector;
9858:                 Lb, Ub, Nexp : Integer;
9859:                 ConsTerm : Boolean;
9860:                 MaxIter : Integer;
9861:                 Tol : Float;
9862:                 B : TVector;
9863:                 V : TMatrix); external 'dmath';
9864: { Unweighted fit of sum of exponentials }
9865: procedure WExpFit(X, Y, S : TVector;
9866:                  Lb, Ub, Nexp : Integer;
9867:                  ConsTerm : Boolean;
9868:                  MaxIter : Integer;
9869:                  Tol : Float;
9870:                  B : TVector;
9871:                  V : TMatrix); external 'dmath';
9872: { Weighted fit of sum of exponentials }
9873: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9874: { Returns the value of the regression function at point X }
9875: procedure IncExpFit(X, Y : TVector;
9876:                    Lb, Ub : Integer;

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9877:          ConstTerm : Boolean;
9878:          MaxIter   : Integer;
9879:          Tol       : Float;
9880:          B         : TVector;
9881:          V         : TMatrix); external 'dmath';
9882: { Unweighted fit of model of increasing exponential }
9883: procedure WIncExpFit(X, Y, S : TVector;
9884:   Lb, Ub : Integer;
9885:   ConstTerm : Boolean;
9886:   MaxIter : Integer;
9887:   Tol : Float;
9888:   B : TVector;
9889:   V : TMatrix); external 'dmath';
9890: { Weighted fit of increasing exponential }
9891: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9892: { Returns the value of the regression function at point X }
9893: procedure ExpLinFit(X, Y : TVector;
9894:   Lb, Ub : Integer;
9895:   MaxIter : Integer;
9896:   Tol : Float;
9897:   B : TVector;
9898:   V : TMatrix); external 'dmath';
9899: { Unweighted fit of the "exponential + linear" model }
9900: procedure WExpLinFit(X, Y, S : TVector;
9901:   Lb, Ub : Integer;
9902:   MaxIter : Integer;
9903:   Tol : Float;
9904:   B : TVector;
9905:   V : TMatrix); external 'dmath';
9906: { Weighted fit of the "exponential + linear" model }
9907:
9908: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9909: { Returns the value of the regression function at point X }
9910: procedure MichFit(X, Y : TVector;
9911:   Lb, Ub : Integer;
9912:   MaxIter : Integer;
9913:   Tol : Float;
9914:   B : TVector;
9915:   V : TMatrix); external 'dmath';
9916: { Unweighted fit of Michaelis equation }
9917: procedure WMichFit(X, Y, S : TVector;
9918:   Lb, Ub : Integer;
9919:   MaxIter : Integer;
9920:   Tol : Float;
9921:   B : TVector;
9922:   V : TMatrix); external 'dmath';
9923: { Weighted fit of Michaelis equation }
9924: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9925: { Returns the value of the Michaelis equation at point X }
9926: procedure MintFit(X, Y : TVector;
9927:   Lb, Ub : Integer;
9928:   MintVar : TMintVar;
9929:   Fit_S0 : Boolean;
9930:   MaxIter : Integer;
9931:   Tol : Float;
9932:   B : TVector;
9933:   V : TMatrix); external 'dmath';
9934: { Unweighted fit of the integrated Michaelis equation }
9935: procedure WMintFit(X, Y, S : TVector;
9936:   Lb, Ub : Integer;
9937:   MintVar : TMintVar;
9938:   Fit_S0 : Boolean;
9939:   MaxIter : Integer;
9940:   Tol : Float;
9941:   B : TVector;
9942:   V : TMatrix); external 'dmath';
9943: { Weighted fit of the integrated Michaelis equation }
9944: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9945: { Returns the value of the integrated Michaelis equation at point X }
9946: procedure HillFit(X, Y : TVector;
9947:   Lb, Ub : Integer;
9948:   MaxIter : Integer;
9949:   Tol : Float;
9950:   B : TVector;
9951:   V : TMatrix); external 'dmath';
9952: { Unweighted fit of Hill equation }
9953: procedure WHillFit(X, Y, S : TVector;
9954:   Lb, Ub : Integer;
9955:   MaxIter : Integer;
9956:   Tol : Float;
9957:   B : TVector;
9958:   V : TMatrix); external 'dmath';
9959: { Weighted fit of Hill equation }
9960: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9961: { Returns the value of the Hill equation at point X }
9962: procedure LogiFit(X, Y : TVector;
9963:   Lb, Ub : Integer;
9964:   ConstTerm : Boolean;
9965:   General : Boolean;

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9966:             MaxIter : Integer;
9967:             Tol       : Float;
9968:             B         : TVector;
9969:             V         : TMatrix); external 'dmath';
9970: { Unweighted fit of logistic function }
9971: procedure WLogiFit(X, Y, S : TVector;
9972:                 Lb, Ub   : Integer;
9973:                 ConstTerm : Boolean;
9974:                 General   : Boolean;
9975:                 MaxIter   : Integer;
9976:                 Tol       : Float;
9977:                 B         : TVector;
9978:                 V         : TMatrix); external 'dmath';
9979: { Weighted fit of logistic function }
9980: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9981: { Returns the value of the logistic function at point X }
9982: procedure PKFit(X, Y : TVector;
9983:                Lb, Ub : Integer;
9984:                MaxIter : Integer;
9985:                Tol     : Float;
9986:                B       : TVector;
9987:                V       : TMatrix); external 'dmath';
9988: { Unweighted fit of the acid-base titration curve }
9989: procedure WPKFit(X, Y, S : TVector;
9990:                 Lb, Ub   : Integer;
9991:                 MaxIter   : Integer;
9992:                 Tol       : Float;
9993:                 B         : TVector;
9994:                 V         : TMatrix); external 'dmath';
9995: { Weighted fit of the acid-base titration curve }
9996: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9997: { Returns the value of the acid-base titration function at point X }
9998: procedure PowFit(X, Y : TVector;
9999:                 Lb, Ub : Integer;
10000:                 MaxIter : Integer;
10001:                 Tol     : Float;
10002:                 B       : TVector;
10003:                 V       : TMatrix); external 'dmath';
10004: { Unweighted fit of power function }
10005: procedure WPowFit(X, Y, S : TVector;
10006:                 Lb, Ub   : Integer;
10007:                 MaxIter   : Integer;
10008:                 Tol       : Float;
10009:                 B         : TVector;
10010:                 V         : TMatrix); external 'dmath';
10011: { Weighted fit of power function }
10012:
10013: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10014: { Returns the value of the power function at point X }
10015: procedure GammaFit(X, Y : TVector;
10016:                  Lb, Ub : Integer;
10017:                  MaxIter : Integer;
10018:                  Tol     : Float;
10019:                  B       : TVector;
10020:                  V       : TMatrix); external 'dmath';
10021: { Unweighted fit of gamma distribution function }
10022: procedure WGammaFit(X, Y, S : TVector;
10023:                   Lb, Ub   : Integer;
10024:                   MaxIter   : Integer;
10025:                   Tol       : Float;
10026:                   B         : TVector;
10027:                   V         : TMatrix); external 'dmath';
10028: { Weighted fit of gamma distribution function }
10029: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10030: { Returns the value of the gamma distribution function at point X }
10031: { -----
10032:   Principal component analysis
10033:   ----- }
10034: procedure VecMean(X : TMatrix;
10035:                 Lb, Ub, Nvar : Integer;
10036:                 M           : TVector); external 'dmath';
10037: { Computes the mean vector M from matrix X }
10038: procedure VecSD(X : TMatrix;
10039:                Lb, Ub, Nvar : Integer;
10040:                M, S         : TVector); external 'dmath';
10041: { Computes the vector of standard deviations S from matrix X }
10042: procedure MatVarCov(X : TMatrix;
10043:                   Lb, Ub, Nvar : Integer;
10044:                   M           : TVector;
10045:                   V           : TMatrix); external 'dmath';
10046: { Computes the variance-covariance matrix V from matrix X }
10047: procedure MatCorrel(V : TMatrix;
10048:                   Nvar : Integer;
10049:                   R     : TMatrix); external 'dmath';
10050: { Computes the correlation matrix R from the var-cov matrix V }
10051: procedure PCA(R : TMatrix;
10052:              Nvar : Integer;
10053:              Lambda : TVector;
10054:              C, Rc : TMatrix); external 'dmath';

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10055: { Performs a principal component analysis of the correlation matrix R }
10056: procedure ScaleVar(X          : TMatrix;
10057:                   Lb, Ub, Nvar : Integer;
10058:                   M, S         : TVector;
10059:                   Z            : TMatrix); external 'dmath';
10060: { Scales a set of variables by subtracting means and dividing by SD's }
10061: procedure PrinFac(Z          : TMatrix;
10062:                 Lb, Ub, Nvar : Integer;
10063:                 C, F         : TMatrix); external 'dmath';
10064: { Computes principal factors }
10065: { -----
10066:   Strings
10067: ----- }
10068: function LTrim(S : String) : String; external 'dmath';
10069: { Removes leading blanks }
10070: function RTrim(S : String) : String; external 'dmath';
10071: { Removes trailing blanks }
10072: function Trim(S : String) : String; external 'dmath';
10073: { Removes leading and trailing blanks }
10074: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10075: { Returns a string made of character C repeated N times }
10076: function RFill(S : String; L : Byte) : String; external 'dmath';
10077: { Completes string S with trailing blanks for a total length L }
10078: function LFill(S : String; L : Byte) : String; external 'dmath';
10079: { Completes string S with leading blanks for a total length L }
10080: function CFill(S : String; L : Byte) : String; external 'dmath';
10081: { Centers string S on a total length L }
10082: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10083: { Replaces in string S all the occurrences of C1 by C2 }
10084: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10085: { Extracts a field from a string }
10086: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10087: { Parses a string into its constitutive fields }
10088: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10089: { Sets the numeric format }
10090: function FloatStr(X : Float) : String; external 'dmath';
10091: { Converts a real to a string according to the numeric format }
10092: function IntStr(N : LongInt) : String; external 'dmath';
10093: { Converts an integer to a string }
10094: function CompStr(Z : Complex) : String; external 'dmath';
10095: { Converts a complex number to a string }
10096: {$IFDEF DELPHI}
10097: function StrDec(S : String) : String; external 'dmath';
10098: { Set decimal separator to the symbol defined in SysUtils }
10099: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10100: { Test if a string represents a number and returns it in X }
10101: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10102: { Reads a floating point number from an Edit control }
10103: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10104: { Writes a floating point number in a text file }
10105: {$ENDIF}
10106: { -----
10107:   BGI / Delphi graphics
10108: ----- }
10109: function InitGraphics
10110: {$IFDEF DELPHI}
10111: (Width, Height : Integer) : Boolean;
10112: {$ELSE}
10113: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10114: { Enters graphic mode }
10115: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10116:                   X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10117: { Sets the graphic window }
10118: procedure SetOxScale(Scale          : TScale;
10119:                   OxMin, OxMax, OxStep : Float); external 'dmath';
10120: { Sets the scale on the Ox axis }
10121: procedure SetOyScale(Scale          : TScale;
10122:                   OyMin, OyMax, OyStep : Float); external 'dmath';
10123: { Sets the scale on the Oy axis }
10124: procedure GetOxScale(var Scale          : TScale;
10125:                   var OxMin, OxMax, OxStep : Float); external 'dmath';
10126: { Returns the scale on the Ox axis }
10127: procedure GetOyScale(var Scale          : TScale;
10128:                   var OyMin, OyMax, OyStep : Float); external 'dmath';
10129: { Returns the scale on the Oy axis }
10130: procedure SetGraphTitle(Title : String); external 'dmath'; { Sets the title for the graph }
10131: procedure SetOxTitle(Title : String); external 'dmath'; { Sets the title for the Ox axis }
10132: procedure SetOyTitle(Title : String); external 'dmath'; { Sets the title for the Oy axis }
10133: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10134: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10135: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10136: {$IFDEF DELPHI}
10137: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10138: { Sets the font for the main graph title }
10139: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10140: { Sets the font for the Ox axis (title and labels) }
10141: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10142: { Sets the font for the Oy axis (title and labels) }
10143: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';

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10144: { Sets the font for the legends }
10145: procedure SetClipping(Clip : Boolean); external 'dmath';
10146: { Determines whether drawings are clipped at the current viewport
10147: boundaries, according to the value of the Boolean parameter Clip }
10148: { $ENDIF }
10149: procedure PlotOxAxis({$IFDEF DELPHI}Canvas : TCanvas){$ENDIF}; external 'dmath';
10150: { Plots the horizontal axis }
10151: procedure PlotOyAxis({$IFDEF DELPHI}Canvas : TCanvas){$ENDIF}; external 'dmath';
10152: { Plots the vertical axis }
10153: procedure PlotGrid({$IFDEF DELPHI}Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10154: { Plots a grid on the graph }
10155: procedure WriteGraphTitle({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10156: { Writes the title of the graph }
10157: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10158: { Sets the maximum number of curves and re-initializes their parameters }
10159: procedure SetPointParam
10160: {$IFDEF DELPHI}
10161: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10162: {$ELSE}
10163: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10164: { Sets the point parameters for curve # CurvIndex }
10165: procedure SetLineParam
10166: {$IFDEF DELPHI}
10167: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10168: {$ELSE}
10169: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10170: { Sets the line parameters for curve # CurvIndex }
10171: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10172: { Sets the legend for curve # CurvIndex }
10173: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10174: { Sets the step for curve # CurvIndex }
10175: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10176: procedure GetPointParam
10177: {$IFDEF DELPHI}
10178: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10179: {$ELSE}
10180: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10181: { Returns the point parameters for curve # CurvIndex }
10182: procedure GetLineParam
10183: {$IFDEF DELPHI}
10184: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10185: {$ELSE}
10186: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10187: { Returns the line parameters for curve # CurvIndex }
10188: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10189: { Returns the legend for curve # CurvIndex }
10190: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10191: { Returns the step for curve # CurvIndex }
10192: {$IFDEF DELPHI}
10193: procedure PlotPoint(Canvas : TCanvas;
10194: X, Y : Float; CurvIndex : Integer); external 'dmath';
10195: {$ELSE}
10196: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10197: {$ENDIF}
10198: { Plots a point on the screen }
10199: procedure PlotCurve({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10200: X, Y : TVector;
10201: Lb, Ub, CurvIndex : Integer); external 'dmath';
10202: { Plots a curve }
10203: procedure PlotCurveWithErrorBars({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10204: X, Y, S : TVector;
10205: Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10206: { Plots a curve with error bars }
10207: procedure PlotFunc({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10208: Func : TFunc;
10209: Xmin, Xmax : Float;
10210: {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10211: CurvIndex : Integer); external 'dmath';
10212: { Plots a function }
10213: procedure WriteLegend({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10214: NCurv : Integer;
10215: ShowPoints, ShowLines : Boolean); external 'dmath';
10216: { Writes the legends for the plotted curves }
10217: procedure ConRec({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10218: Nx, Ny, Nc : Integer;
10219: X, Y, Z : TVector;
10220: F : TMatrix); external 'dmath';
10221: { Contour plot }
10222: function Xpixel(X : Float):Integer; external 'dmath'; {Converts user abscissa X to screen coordinate }
10223: function Ypixel(Y : Float):Integer; external 'dmath'; {Converts user ordinate Y to screen coordinate }
10224: function Xuser(X : Integer):Float; external 'dmath'; {Converts screen coordinate X to user abscissa }
10225: function Yuser(Y : Integer):Float; external 'dmath'; {Converts screen coordinate Y to user ordinate }
10226: {$IFDEF DELPHI}
10227: procedure LeaveGraphics; external 'dmath';
10228: { Quits graphic mode }
10229: {$ENDIF}
10230: { -----
10231: LaTeX graphics
10232: ----- }

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10233: function TeX_InitGraphics(FileName           : String; PgWidth, PgHeight : Integer;
10234:                           Header           : Boolean) : Boolean; external 'dmath';
10235: { Initializes the LaTeX file }
10236: procedure TeX_SetWindow(X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10237: { Sets the graphic window }
10238: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10239: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10240: { Sets the scale on the Ox axis }
10241: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10242: { Sets the scale on the Oy axis }
10243: procedure TeX_SetGraphTitle(Title : String); external 'dmath'; { Sets the title for the graph }
10244: procedure TeX_SetOxTitle(Title : String); external 'dmath'; { Sets the title for the Ox axis }
10245: procedure TeX_SetOyTitle(Title : String); external 'dmath'; { Sets the title for the Oy axis }
10246: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10247: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10248: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10249: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph }
10250: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10251: { Sets the maximum number of curves and re-initializes their parameters }
10252: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10253: { Sets the point parameters for curve # CurvIndex }
10254: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10255:                           Width : Float; Smooth : Boolean); external 'dmath';
10256: { Sets the line parameters for curve # CurvIndex }
10257: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10258: { Sets the legend for curve # CurvIndex }
10259: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10260: { Sets the step for curve # CurvIndex }
10261: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10262: { Plots a curve }
10263: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10264:                                     Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10265: { Plots a curve with error bars }
10266: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10267:                       Npt : Integer; CurvIndex : Integer); external 'dmath';
10268: { Plots a function }
10269: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10270: { Writes the legends for the plotted curves }
10271: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10272: { Contour plot }
10273: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10274: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10275:
10276: //*****unit uPSI_SynPdf;
10277: function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10278: function _DateToPdfDate( ADate : TDateTime ) : TPdfDate
10279: function _PdfDateToDateTime( const AText : TPdfDate ) : TDateTime
10280: function PdfRect( Left, Top, Right, Bottom : Single ) : TPdfRect;
10281: function PdfRect1( const Box : TPdfBox ) : TPdfRect;
10282: function PdfBox( Left, Top, Width, Height : Single ) : TPdfBox
10283: //Function _GetCharCount( Text : PAnsiChar ) : integer
10284: //Procedure L2R( W : PWideChar; L : integer)
10285: function PdfCoord( MM : single ) : integer
10286: function CurrentPrinterPaperSize : TPDPaperSize
10287: function CurrentPrinterRes : TPoint
10288: procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10289: procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10290: procedure GDICommentLink( MetaHandle:HDC; const aBookmarkName:RawUTF8; const aRect : TRect )
10291: const('Usp10','String').SetString( 'usp10.dll
10292: AddTypeS('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10293: 'fCharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10294: AddTypeS('TScriptState_set', 'set of TScriptState_enum
10295: //*****
10296:
10297: procedure SIRegister_PMrand(CL: TPSPascalCompiler); //ParkMiller
10298: begin
10299:   procedure PMrandomize( I : word)
10300:   function PMrandom : longint
10301:   function Rrand : extended
10302:   function Irand( N : word ) : word
10303:   function Brand( P : extended ) : boolean
10304:   function Nrand : extended
10305: end;
10306:
10307: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10308: begin
10309:   function Endian( x : LongWord ) : LongWord
10310:   function Endian64( x : Int64 ) : Int64
10311:   function spRol( x : LongWord; y : Byte ) : LongWord
10312:   function spRor( x : LongWord; y : Byte ) : LongWord
10313:   function Ror64( x : Int64; y : Byte ) : Int64
10314: end;
10315:
10316: procedure SIRegister_MapReader(CL: TPSPascalCompiler);
10317: begin
10318:   procedure ClearModules
10319:   procedure ReadMapFile( FName : string)
10320:   function AddressInfo( Address : dword ) : string
10321: end;

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10322:
10323: procedure SIRegister_LibTar(CL: TPSPascalCompiler);
10324: begin
10325:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOw'
10326:   + 'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWri'
10327:   + 'teByOther, tpExecuteByOther )
10328:   TTarPermissions', 'set of TTarPermission
10329:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10330:   + 'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader;
10331:   TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10332:   TTarModes', 'set of TTarMode
10333:   TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDA'
10334:   + 'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10335:   + 'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING;'
10336:   + 'ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10337:   + 'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10338:   SIRegister_TTarArchive(CL);
10339:   SIRegister_TTarWriter(CL);
10340:   Function PermissionString( Permissions : TTarPermissions) : STRING
10341:   Function ConvertFilename( Filename : STRING) : STRING
10342:   Function FileTimeGMT( FileName : STRING) : TDateTime;
10343:   Function FileTimeGMT1( SearchRec : TSearchRec) : TDateTime;
10344:   Procedure ClearDirRec( var DirRec : TTarDirRec)
10345: end;
10346:
10347:
10348: //*****unit uPSI_TlHelp32;
10349: procedure SIRegister_TlHelp32(CL: TPSPascalCompiler);
10350: begin
10351:   Const('MAX_MODULE_NAME32', 'LongInt').SetInt( 255);
10352:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD) : THandle
10353:   Const('TH32CS_SNAPHEAPLIST', 'LongWord').SetUInt( $00000001);
10354:   Const('TH32CS_SNAPPROCESS', 'LongWord').SetUInt( $00000002);
10355:   Const('TH32CS_SNAPTHREAD', 'LongWord').SetUInt( $00000004);
10356:   Const('TH32CS_SNAPMODULE', 'LongWord').SetUInt( $00000008);
10357:   Const('TH32CS_INHERIT', 'LongWord').SetUInt( $80000000);
10358:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10359:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10360:   AddTypeS('THeapList32', 'tagHEAPLIST32
10361:   Const('HF32_DEFAULT', 'LongInt').SetInt( 1);
10362:   Const('HF32_SHARED', 'LongInt').SetInt( 2);
10363:   Function Heap32ListFirst( hSnapshot : THandle; var lphe : THeapList32) : BOOL
10364:   Function Heap32ListNext( hSnapshot : THandle; var lphe : THeapList32) : BOOL
10365:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAd'
10366:   + 'dress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10367:   + 'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10368:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10369:   AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10370:   Const('LF32_FIXED', 'LongWord').SetUInt( $00000001);
10371:   Const('LF32_FREE', 'LongWord').SetUInt( $00000002);
10372:   Const('LF32_MOVEABLE', 'LongWord').SetUInt( $00000004);
10373:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD) : BOOL
10374:   Function Heap32Next( var lphe : THeapEntry32) : BOOL
10375:   DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10376:   AddTypeS('tagTHREADEENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10377:   + '2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10378:   + 'aPri : Longint; dwFlags : DWORD; end
10379:   AddTypeS('THREADEENTRY32', 'tagTHREADEENTRY32
10380:   AddTypeS('TThreadEntry32', 'tagTHREADEENTRY32
10381:   Function Thread32First( hSnapshot : THandle; var lphe : TThreadEntry32) : BOOL
10382:   Function Thread32Next( hSnapshot : THandle; var lphe : TThreadEntry32) : BOOL
10383: end;
10384:   Const('EW_RESTARTWINDOWS', 'LongWord').SetUInt( $0042);
10385:   Const('EW_REBOOTSYSTEM', 'LongWord').SetUInt( $0043);
10386:   Const('EW_EXITANDEXECAPP', 'LongWord').SetUInt( $0044);
10387:   Const('ENDSESSION_LOGOFF', 'LongWord').SetUInt( DWORD ( $80000000 ));
10388:   Const('EWX_LOGOFF', 'LongInt').SetInt( 0);
10389:   Const('EWX_SHUTDOWN', 'LongInt').SetInt( 1);
10390:   Const('EWX_REBOOT', 'LongInt').SetInt( 2);
10391:   Const('EWX_FORCE', 'LongInt').SetInt( 4);
10392:   Const('EWX_POWEROFF', 'LongInt').SetInt( 8);
10393:   Const('EWX_FORCEIFHUNG', 'LongWord').SetUInt( $10);
10394:   Function GET_APPCOMMAND_LPARAM( const lParam : LongInt) : Shortint
10395:   Function GET_DEVICE_LPARAM( const lParam : LongInt) : Word
10396:   Function GET_MOUSEORKEY_LPARAM( const lParam : LongInt) : Word
10397:   Function GET_FLAGS_LPARAM( const lParam : LongInt) : Word
10398:   Function GET_KEYSTATE_LPARAM( const lParam : LongInt) : Word
10399:   Function GetWindowWord( hWnd : HWND; nIndex : Integer) : Word
10400:   Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word) : Word
10401:   Function GetWindowLong( hWnd : HWND; nIndex : Integer) : Longint
10402:   Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : Longint
10403:   Function GetClassWord( hWnd : HWND; nIndex : Integer) : Word
10404:   Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word) : Word
10405:   Function GetClassLong( hWnd : HWND; nIndex : Integer) : DWORD
10406:   Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : DWORD
10407:   Function GetDesktopWindow : HWND
10408:   Function GetParent( hWnd : HWND) : HWND
10409:   Function SetParent( hWndChild, hWndNewParent : HWND) : HWND
10410:   Function GetTopWindow( hWnd : HWND) : HWND

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10411: Function GetNextWindow( hWnd : HWND; uCmd : UINT) : HWND
10412: Function GetWindow( hWnd : HWND; uCmd : UINT) : HWND
10413: //Delphi DFM
10414: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10415: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string) : integer
10416: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10417: function GetHighlightersFilter(AHighlighters: TStringList): string;
10418: function GetHighlighterFromFileExt(AHighlighters: TStringList; Extension: string):TSynCustomHighlighter;
10419: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL) : BOOL
10420: Function OpenIcon( hWnd : HWND) : BOOL
10421: Function CloseWindow( hWnd : HWND) : BOOL
10422: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL) : BOOL
10423: Function SetWindowPos(hWnd: HWND;hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UINT) : BOOL
10424: Function IsWindowVisible( hWnd : HWND) : BOOL
10425: Function IsIconic( hWnd : HWND) : BOOL
10426: Function AnyPopup : BOOL
10427: Function BringWindowToTop( hWnd : HWND) : BOOL
10428: Function IsZoomed( hWnd : HWND) : BOOL
10429: Function IsWindow( hWnd : HWND) : BOOL
10430: Function IsMenu( hMenu : HMENU) : BOOL
10431: Function IsChild( hWndParent, hWnd : HWND) : BOOL
10432: Function DestroyWindow( hWnd : HWND) : BOOL
10433: Function ShowWindow( hWnd : HWND; nCmdShow : Integer) : BOOL
10434: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD) : BOOL
10435: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer) : BOOL
10436: Function FlashWindow( hWnd : HWND; bInvert : BOOL) : BOOL
10437: Function IsWindowUnicode( hWnd : HWND) : BOOL
10438: Function EnableWindow( hWnd : HWND; bEnable : BOOL) : BOOL
10439: Function IsWindowEnabled( hWnd : HWND) : BOOL
10440:
10441: procedure SIRegister_IDECmdLine(CL: TPSPascalCompiler);
10442: begin
10443:   const ('ShowSetupDialogOptLong','String').SetString( '--setup
10444:   PrimaryConfPathOptLong','String').SetString( '--primary-config-path=
10445:   PrimaryConfPathOptShort','String').SetString( '--pcp=
10446:   SecondaryConfPathOptLong','String').SetString( '--secondary-config-path=
10447:   SecondaryConfPathOptShort','String').SetString( '--scp=
10448:   NoSplashScreenOptLong','String').SetString( '--no-splash-screen
10449:   NoSplashScreenOptShort','String').SetString( '--nsc
10450:   StartedByStartLazarusOpt','String').SetString( '--started-by-startlazarus
10451:   SkipLastProjectOpt','String').SetString( '--skip-last-project
10452:   DebugLogOpt','String').SetString( '--debug-log=
10453:   DebugLogOptEnable','String').SetString( '--debug-enable=
10454:   LanguageOpt','String').SetString( '--language=
10455:   LazarusDirOpt','String').SetString( '--lazarusdir=
10456: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10457: Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean) : string
10458: Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings) : string
10459: Function IsHelpRequested : Boolean
10460: Function IsVersionRequested : boolean
10461: Function GetLanguageSpecified : string
10462: Function ParamIsOption( ParamIndex : integer; const Option : string) : boolean
10463: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10464: Procedure ParseNoGuiCmdLineParams
10465: Function ExtractCmdLineFileNames : TStrings
10466: end;
10467:
10468:
10469: procedure SIRegister_LazFileUtils(CL: TPSPascalCompiler);
10470: begin
10471:   Function CompareFileNames( const Filename1, Filename2 : string) : integer
10472:   Function CompareFileNamesIgnoreCase( const Filename1, Filename2 : string) : integer
10473:   Function CompareFileExt( const Filename, Ext : string; CaseSensitive : boolean) : integer;
10474:   Function CompareFileExtL( const Filename, Ext : string) : integer;
10475:   Function CompareFilenameStarts( const Filename1, Filename2 : string) : integer
10476:   Function CompareFileNames(Filename1:PChar;Len1:integer; Filename2:PChar;Len2:integer):integer
10477:   Function CompareFileNamesP( Filename1, Filename2 : PChar; IgnoreCase : boolean) : integer
10478:   Function DirPathExists( DirectoryName : string) : boolean
10479:   Function DirectoryIsWritable( const DirectoryName : string) : boolean
10480:   Function ExtractFileNameOnly( const AFilename : string) : string
10481:   Function FilenameIsAbsolute( const TheFilename : string) : boolean
10482:   Function FilenameIsWinAbsolute( const TheFilename : string) : boolean
10483:   Function FilenameIsUnixAbsolute( const TheFilename : string) : boolean
10484:   Function ForceDirectory( DirectoryName : string) : boolean
10485: Procedure CheckIfFileIsExecutable( const AFilename : string)
10486: Procedure CheckIfFileIsSymlink( const AFilename : string)
10487: Function FileIsText( const AFilename : string) : boolean
10488: Function FileIsText2( const AFilename : string; out FileReadable : boolean) : boolean
10489: Function FilenameIsTrimmed( const TheFilename : string) : boolean
10490: Function FilenameIsTrimmed2( StartPos : PChar; NameLen : integer) : boolean
10491: Function TrimFilename( const AFilename : string) : string
10492: Function ResolveDots( const AFilename : string) : string
10493: Procedure ForcePathDelims( var FileName : string)
10494: Function GetForcedPathDelims( const FileName : string) : string
10495: Function CleanAndExpandFilename( const Filename : string) : string
10496: Function CleanAndExpandDirectory( const Filename : string) : string
10497: Function TrimAndExpandFilename( const Filename : string; const BaseDir : string) : string
10498: Function TrimAndExpandDirectory( const Filename : string; const BaseDir : string) : string
10499: Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
AlwaysRequireSharedBaseFolder : Boolean; out RelPath : string) : Boolean

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10500: Function CreateRelativePath( const Filename,BaseDirectory:string; UsePointDirectory:boolean;
AlwaysRequireSharedBaseFolder: Boolean) : string
10501: Function FileIsInPath( const Filename, Path : string) : boolean
10502: Function AppendPathDelim( const Path : string) : string
10503: Function ChompPathDelim( const Path : string) : string
10504: Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string) : string
10505: Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string) : string
10506: Function MinimizeSearchPath( const SearchPath : string) : string
10507: Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
10508: (*Function FileExistsUTF8( const Filename : string) : boolean
Function FileAgeUTF8( const FileName : string) : Longint
Function DirectoryExistsUTF8( const Directory : string) : Boolean
Function ExpandFileNameUTF8( const FileName : string; BaseDir : string) : string
Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
Function FindNextUTF8( var Rslt : TSearchRec) : Longint
Procedure FindCloseUTF8( var F : TSearchRec)
Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
Function FileGetAttrUTF8( const FileName : String) : Longint
Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
Function DeleteFileUTF8( const FileName : String) : Boolean
Function RenameFileUTF8( const OldName, NewName : String) : Boolean
Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
Function GetCurrentDirUTF8 : String
Function SetCurrentDirUTF8( const NewDir : String) : Boolean
Function CreateDirUTF8( const NewDir : String) : Boolean
Function RemoveDirUTF8( const Dir : String) : Boolean
Function ForceDirectoriesUTF8( const Dir : string) : Boolean
Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
Function FileCreateUTF8( const FileName : string) : THandle;
Function FileCreateUTF8( const FileName : string; Rights : Cardinal) : THandle;
Function FileCreateUtf8( const FileName : String; ShareMode : Integer; Rights : Cardinal) : THandle;
Function FileSizeUtf8( const Filename : string) : int64
Function GetFileDescription( const AFilename : string) : string
Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean) : string
Function GetTempFileNameUTF8( const Dir, Prefix : String) : String*)
10536: Function IsUNCPath( const Path : String) : Boolean
10537: Function ExtractUNCVolume( const Path : String) : String
10538: Function ExtractFileRoot( FileName : String) : String
10539: Function GetDarwinSystemFilename( Filename : string) : string
10540: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean)
10541: Function StrToCmdLineParam( const Param : string) : string
10542: Function MergeCmdLineParams( ParamList : TStrings) : string
10543: Procedure InvalidateFileStateCache( const Filename : string)
10544: Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList);
10545: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
10546: Function ReadFileToString( const Filename : string) : string
10547: type
10548:   TCopyFileFlag = ( cffOverwriteFile,
10549:     cffCreateDestDirectory, cffPreserveTime );
10550:   TCopyFileFlags = set of TCopyFileFlag;*)
10551:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10552:   TCopyFileFlags', 'set of TCopyFileFlag
10553:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
10554: end;
10555:
10556: procedure SIRegister_lazMasks(CL: TPSPascalCompiler);
10557: begin
10558:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10559:   SIRegister_TMask(CL);
10560:   SIRegister_TParseStringList(CL);
10561:   SIRegister_TMaskList(CL);
10562:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Boolean
10563:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Bool;
10564:   Function MatchesMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10565:   Function MatchesWindowsMaskList(const FileName,Mask:String;Separat:Char;const CaseSensitive:Bool):Bool;
10566: end;
10567:
10568: procedure SIRegister_JvShellHook(CL: TPSPascalCompiler);
10569: begin
10570:   //PShellHookInfo', '^TShellHookInfo // will not work
10571:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10572:   SHELLHOOKINFO', 'TShellHookInfo
10573:   LPSHELLHOOKINFO', 'PShellHookInfo
10574:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10575:   SIRegister_TJvShellHook(CL);
10576:   Function InitJvShellHooks : Boolean
10577:   Procedure UnInitJvShellHooks
10578: end;
10579:
10580: procedure SIRegister_JvExControls(CL: TPSPascalCompiler);
10581: begin
10582:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10583:   +', dcHasSetSel, dcWantTab, dcNative )
10584:   TDlgCodes', 'set of TDlgCode
10585:   'dcWantMessage','').SetString( dcWantAllKeys);
10586:   SIRegister_IJvExControl(CL);
10587:   SIRegister_IJvDenySubClassing(CL);

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10588:   SIRegister_TStructPtrMessage(CL);
10589: Procedure SetDotNetFrameColors( FocusedColor, UnfocusedColor : TColor)
10590: Procedure DrawDotNetControl( Control : TWinControl; AColor : TColor; InControl : Boolean);
10591: Procedure DrawDotNetControl1( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10592: Procedure HandleDotNetHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10593: Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint) : TMessage;
10594: Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl) : TMessage;
10595: Function SmallPointToLong( const Pt : TSmallPoint) : Longint
10596: Function ShiftStateToKeyData( Shift : TShiftState) : Longint
10597: Function GetFocusedControl( AControl : TControl) : TWinControl
10598: Function DlgcToDlgCodes( Value : Longint) : TDlgCodes
10599: Function DlgCodesToDlgc( Value : TDlgCodes) : Longint
10600: Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10601: Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage) : Boolean
10602:   SIRegister_TJvExControl(CL);
10603:   SIRegister_TJvExWinControl(CL);
10604:   SIRegister_TJvExCustomControl(CL);
10605:   SIRegister_TJvExGraphicControl(CL);
10606:   SIRegister_TJvExHintWindow(CL);
10607:   SIRegister_TJvExPubGraphicControl(CL);
10608: end;
10609:
10610: (*-----*)
10611: procedure SIRegister_EncdDecd(CL: TPSPascalCompiler);
10612: begin
10613:   Procedure EncodeStream( Input, Output : TStream)
10614:   Procedure DecodeStream( Input, Output : TStream)
10615:   Function EncodeString1( const Input : string) : string
10616:   Function DecodeString1( const Input : string) : string
10617: end;
10618:
10619: (*-----*)
10620: procedure SIRegister_SockAppReg(CL: TPSPascalCompiler);
10621: begin
10622:   SIRegister_TWebAppRegInfo(CL);
10623:   SIRegister_TWebAppRegList(CL);
10624:   Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10625:   Procedure RegisterWebApp( const AFileName, AProgID : string)
10626:   Procedure UnregisterWebApp( const AProgID : string)
10627:   Function FindRegisteredWebApp( const AProgID : string) : string
10628:   Function CreateRegistry( InitializeNewFile : Boolean) : TCustomIniFile
10629:   'sUDPPort', 'String').SetString( 'UDPPort
10630: end;
10631:
10632: procedure SIRegister_PJEnvVars(CL: TPSPascalCompiler);
10633: begin
10634:   // TStringDynArray, 'array of string
10635:   Function GetEnvVarValue( const VarName : string) : string
10636:   Function SetEnvVarValue( const VarName, VarValue : string) : Integer
10637:   Function DeleteEnvVar( const VarName : string) : Integer
10638:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int):Int;
10639:   Function ExpandEnvVars( const Str : string) : string
10640:   Function GetAllEnvVars( const Vars : TStrings) : Integer
10641:   Procedure GetAllEnvVarNames( const Names : TStrings);
10642:   Function GetAllEnvVarNames1 : TStringDynArray;
10643:   Function EnvBlockSize : Integer
10644:   TPJEnvVarsEnum, 'Procedure ( const VarName : string; Data : TObject)
10645:   SIRegister_TPJEnvVarsEnumerator(CL);
10646:   SIRegister_TPJEnvVars(CL);
10647:   FindClass('TOBJECT'),'EPJEnvVars
10648:   FindClass('TOBJECT'),'EPJEnvVars
10649:   //Procedure Register
10650: end;
10651:
10652: (*-----*)
10653: procedure SIRegister_PJConsoleApp(CL: TPSPascalCompiler);
10654: begin
10655:   'cOneSecInMS','LongInt').SetInt( 1000);
10656:   //'cDefTimeSlice','LongInt').SetInt( 50);
10657:   //'cDefMaxExecTime','').SetString( cOneMinInMS);
10658:   'cAppErrorMask','LongInt').SetInt( 1 shl 29);
10659:   Function IsApplicationError( const ErrCode : LongWord) : Boolean
10660:   TPJConsoleAppPriority, '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10661:   TPJConsoleColors, 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10662:   Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor):TPJConsoleColors;
10663:   Function MakeConsoleColors1( const AForeground, ABackground : TColor) : TPJConsoleColors;
10664:   Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor) : TPJConsoleColors;
10665:   Function MakeSize( const ACX, ACY : LongInt) : TSize
10666:   SIRegister_TPJCustomConsoleApp(CL);
10667:   SIRegister_TPJConsoleApp(CL);
10668: end;
10669:
10670: procedure SIRegister_ip_misc(CL: TPSPascalCompiler);
10671: begin
10672:   INVALID_IP_ADDRESS, 'LongWord').SetUInt( $ffffff);
10673:   t_encoding, '( uencode, base64, mime )
10674:   Function internet_date( date : TDateTime) : string
10675:   Function lookup_hostname( const hostname : string) : longint

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10676: Function my_hostname : string
10677: Function my_ip_address : longint
10678: Function ip2string( ip_address : longint) : string
10679: Function resolve_hostname( ip : longint) : string
10680: Function address_from( const s : string; count : integer) : string
10681: Function encode_base64( data : TStream) : TStringList
10682: Function decode_base64( source : TStringList) : TMemoryStream
10683: Function posn( const s, t : string; count : integer) : integer
10684: Function poscn( c : char; const s : string; n : integer) : integer
10685: Function filename_of( const s : string) : string
10686: //Function trim( const s : string) : string
10687: //Procedure setlength( var s : string; l : byte)
10688: Function TimeZoneBias : longint
10689: Function eight2seven_quoteprint( const s : string) : string
10690: Function eight2seven_german( const s : string) : string
10691: Function seven2eight_quoteprint( const s : string) : string end;
10692: type in_addr, record s_bytes : array[1..4] of byte; end;
10693: Function socketerror : cint
10694: Function fpsocket( domain : cint; xtype : cint; protocol : cint) : cint
10695: Function fprecv( s : cint; buf : __pointer; len : size_t; flags : cint) : ssize_t
10696: Function fsend( s : cint; msg : __pointer; len : size_t; flags : cint) : ssize_t
10697: //Function fbind( s : cint; addrx : psockaddr; addrlen : tsocklen) : cint
10698: Function fplisten( s : cint; backlog : cint) : cint
10699: //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint) : cint
10700: //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen) : cint
10701: //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen) : cint
10702: Function NetAddrToStr( Entry : in_addr) : String
10703: Function HostAddrToStr( Entry : in_addr) : String
10704: Function StrToHostAddr( IP : String) : in_addr
10705: Function StrToNetAddr( IP : String) : in_addr
10706: SOL_SOCKET, 'LongWord').SetUInt( $ffff);
10707: cint8, 'shortint
10708: cuint8, 'byte
10709: cchar, 'cint8
10710: cschar, 'cint8
10711: cuchar, 'cuint8
10712: cint16, 'smallint
10713: cuint16, 'word
10714: cshort, 'cint16
10715: csshort, 'cint16
10716: cushort, 'cuint16
10717: cint32, 'longint
10718: cuint32, 'longword
10719: cint, 'cint32
10720: csint, 'cint32
10721: cuint, 'cuint32
10722: csigned, 'cint
10723: cunsigned, 'cuint
10724: cint64, 'int64
10725: clonglong, 'cint64
10726: cslonglong, 'cint64
10727: cbool, 'longbool
10728: cfloat, 'single
10729: cdouble, 'double
10730: clongdouble, 'extended
10731:
10732: procedure SIRegister_uLkJSON(CL: TPSPascalCompiler);
10733: begin
10734:   TlkJSONtypes', '(jsBase,jsNumber,jsString,jsBoolean,jsNull,jsList,jsObject )
10735:   SIRegister_TlkJSONdotnetclass(CL);
10736:   SIRegister_TlkJSONbase(CL);
10737:   SIRegister_TlkJSONnumber(CL);
10738:   SIRegister_TlkJSONstring(CL);
10739:   SIRegister_TlkJSONboolean(CL);
10740:   SIRegister_TlkJSONnull(CL);
10741:   TlkJSONFuncEnum', 'Procedure ( ElName : string; Elem : TlkJSONba'
10742:   +'se; data : TObject; var Continue : Boolean)
10743:   SIRegister_TlkJSONcustomlist(CL);
10744:   SIRegister_TlkJSONlist(CL);
10745:   SIRegister_TlkJSONobjectmethod(CL);
10746:   TlkHashItem', 'record hash : cardinal; index : Integer; end
10747:   TlkHashFunction', 'Function ( const ws : WideString) : cardinal
10748:   SIRegister_TlkHashTable(CL);
10749:   SIRegister_TlkBalTree(CL);
10750:   SIRegister_TlkJSONobject(CL);
10751:   SIRegister_TlkJSON(CL);
10752:   SIRegister_TlkJSONstreamed(CL);
10753: Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer) : string
10754: end;
10755:
10756: procedure SIRegister_ZSysUtils(CL: TPSPascalCompiler);
10757: begin
10758:   TZListSortCompare', 'Function (Item1, Item2 : TObject): Integer
10759:   SIRegister_TZSortedList(CL);
10760:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10761:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10762:   //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10763:   //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10764:   Function zStartsWith( const Str, SubStr : WideString) : Boolean;

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10765: Function StartsWith1( const Str, SubStr : RawByteString ) : Boolean;
10766: Function EndsWith( const Str, SubStr : WideString ) : Boolean;
10767: Function EndsWith1( const Str, SubStr : RawByteString ) : Boolean;
10768: Function SQLStrToFloatDef( Str : RawByteString; Def : Extended ) : Extended;
10769: Function SQLStrToFloatDef1( Str : String; Def : Extended ) : Extended;
10770: Function SQLStrToFloat( const Str : AnsiString ) : Extended
10771: //Function BufferToStr( Buffer : PWideChar; Length : LongInt ) : string;
10772: //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt ) : string;
10773: Function BufferToBytes( Buffer : TObject; Length : LongInt ) : TByteDynArray
10774: Function StrToBoolEx( Str : string ) : Boolean
10775: Function BoolToStrEx( Bool : Boolean ) : String
10776: Function IsIpAddr( const Str : string ) : Boolean
10777: Function zSplitString( const Str, Delimiters : string ) : TStrings
10778: Procedure PutSplitString( List : TStrings; const Str, Delimiters : string )
10779: Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string )
10780: Function ComposeString( List : TStrings; const Delimiter : string ) : string
10781: Function FloatToSQLStr( Value : Extended ) : string
10782: Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string )
10783: Function SplitStringEx( const Str, Delimiter : string ) : TStrings
10784: Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string )
10785: Function zBytesToStr( const Value : TByteDynArray ) : AnsiString
10786: Function zStrToBytes( const Value : AnsiString ) : TByteDynArray;
10787: Function StrToBytes1( const Value : UTF8String ) : TByteDynArray;
10788: Function StrToBytes2( const Value : RawByteString ) : TByteDynArray;
10789: Function StrToBytes3( const Value : WideString ) : TByteDynArray;
10790: Function StrToBytes4( const Value : UnicodeString ) : TByteDynArray;
10791: Function BytesToVar( const Value : TByteDynArray ) : Variant
10792: Function VarToBytes( const Value : Variant ) : TByteDynArray
10793: Function AnsiSQLDateToDateTime( const Value : string ) : TDateTime
10794: Function TimestampStrToDateTime( const Value : string ) : TDateTime
10795: Function DateTimeToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean ) : string
10796: Function EncodeCString( const Value : string ) : string
10797: Function DecodeCString( const Value : string ) : string
10798: Function zReplaceChar( const Source, Target : Char; const Str : string ) : string
10799: Function MemPas( Buffer : PChar; Length : LongInt ) : string
10800: Procedure DecodeSQLVersioning(const FullVersion:Integer;out MajorVersion:Integer;out MinorVersion:Integer;out
SubVersion:Integer);
10801: Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Integer;
10802: Function FormatSQLVersion( const SQLVersion : Integer ) : String
10803: Function ZStrToFloat( Value : AnsiChar ) : Extended;
10804: Function ZStrToFloat1( Value : AnsiString ) : Extended;
10805: Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString);
10806: Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString);
10807: Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String);
10808: Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String);
10809: Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString);
10810: Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString);
10811: Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString);
10812: end;
10813:
10814: unit uPSI_ZEncoding;
10815: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word ) : RawByteString
10816: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word ) : String
10817: Function ZRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10818: Function ZUnicodeToRaw( const US : WideString; CP : Word ) : RawByteString
10819: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10820: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10821: Function ZConvertAnsiToUTF8( const Src : AnsiString ) : UTF8String
10822: Function ZConvertUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10823: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10824: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10825: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10826: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10827: Function ZConvertStringToRawWithAutoEncode(const Src:String;const StringCP,RawCP:Word):RawByteString;
10828: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word ) : String
10829: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10830: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP : Word ) : UTF8String
10831: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10832: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP : Word ) : AnsiString
10833: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10834: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word ) : String
10835: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word ) : String
10836: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word ) : WideString
10837: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word ) : WideString
10838: Function ZConvertStringToUnicodeWithAutoEncode( const Src : String; const StringCP : Word ) : WideString
10839: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10840: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10841: Function ZMoveAnsiToUTF8( const Src : AnsiString ) : UTF8String
10842: Function ZMoveUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10843: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10844: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10845: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10846: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10847: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10848: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10849: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word ) : String
10850: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10851: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word ) : WideString

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10852: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word) : WideString
10853: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word) : RawByteString
10854: Function ZDefaultSystemCodePage : Word
10855: Function ZCompatibleCodePages( const CP1, CP2 : Word) : Boolean
10856:
10857:
10858: procedure SIRegister_BoldComUtils(CL: TPSPascalCompiler);
10859: begin
10860:   'RPC_C_AUTHN_LEVEL_DEFAULT', 'LongInt').SetInt( 0);
10861:   ('RPC_C_AUTHN_LEVEL_NONE', 'LongInt').SetInt( 1);
10862:   ('RPC_C_AUTHN_LEVEL_CONNECT', 'LongInt').SetInt( 2);
10863:   ('RPC_C_AUTHN_LEVEL_CALL', 'LongInt').SetInt( 3);
10864:   ('RPC_C_AUTHN_LEVEL_PKT', 'LongInt').SetInt( 4);
10865:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY', 'LongInt').SetInt( 5);
10866:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY', 'LongInt').SetInt( 6);
10867:   (('alDefault', '1').SetString( RPC_C_AUTHN_LEVEL_DEFAULT);
10868:   ('alNone', '2').SetString( RPC_C_AUTHN_LEVEL_NONE);
10869:   ('alConnect', '3').SetString( RPC_C_AUTHN_LEVEL_CONNECT);
10870:   ('alCall', '4').SetString( RPC_C_AUTHN_LEVEL_CALL);
10871:   ('alPacket', '5').SetString( RPC_C_AUTHN_LEVEL_PKT);
10872:   ('alPacketIntegrity', '6').SetString( RPC_C_AUTHN_LEVEL_PKT_INTEGRITY);
10873:   ('alPacketPrivacy', '7').SetString( RPC_C_AUTHN_LEVEL_PKT_PRIVACY);}
10874:   ('RPC_C_IMP_LEVEL_DEFAULT', 'LongInt').SetInt( 0);
10875:   ('RPC_C_IMP_LEVEL_ANONYMOUS', 'LongInt').SetInt( 1);
10876:   ('RPC_C_IMP_LEVEL_IDENTIFY', 'LongInt').SetInt( 2);
10877:   ('RPC_C_IMP_LEVEL_IMPERSONATE', 'LongInt').SetInt( 3);
10878:   ('RPC_C_IMP_LEVEL_DELEGATE', 'LongInt').SetInt( 4);
10879:   (('ilDefault', '0').SetString( RPC_C_IMP_LEVEL_DEFAULT);
10880:   ('ilAnonymous', '1').SetString( RPC_C_IMP_LEVEL_ANONYMOUS);
10881:   ('ilIdentify', '2').SetString( RPC_C_IMP_LEVEL_IDENTIFY);
10882:   ('ilImpersonate', '3').SetString( RPC_C_IMP_LEVEL_IMPERSONATE);
10883:   ('ilDelegate', '4').SetString( RPC_C_IMP_LEVEL_DELEGATE);}
10884:   ('EOAC_NONE', 'LongWord').SetUInt( $0);
10885:   ('EOAC_DEFAULT', 'LongWord').SetUInt( $800);
10886:   ('EOAC_MUTUAL_AUTH', 'LongWord').SetUInt( $1);
10887:   ('EOAC_STATIC_CLOACKING', 'LongWord').SetUInt( $20);
10888:   ('EOAC_DYNAMIC_CLOACKING', 'LongWord').SetUInt( $40);
10889:   ('EOAC_ANY_AUTHORITY', 'LongWord').SetUInt( $80);
10890:   ('RPC_C_AUTHN_WINNT', 'LongInt').SetInt( 10);
10891:   ('RPC_C_AUTHN_NONE', 'LongInt').SetInt( 0);
10892:   ('RPC_C_AUTHN_NAME', 'LongInt').SetInt( 1);
10893:   ('RPC_C_AUTHN_DCE', 'LongInt').SetInt( 2);
10894:   FindClass('TOBJECT'), 'EBoldCom
10895: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer) : Boolean
10896: Function BoldMemoryToVariant( const Buffer, BufSize : Integer) : OleVariant
10897: Function BoldStreamToVariant( Stream : TStream) : OleVariant
10898: Function BoldStringsToVariant( Strings : TStrings) : OleVariant
10899: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer) : Integer
10900: Function BoldVariantToStream( V : OleVariant; Stream : TStream) : Integer
10901: Function BoldVariantArrayOfArraysOfStringToStrings( V : OleVariant; Strings : TStrings) : Integer
10902: Function BoldVariantIsNamedValues( V : OleVariant) : Boolean
10903: Function BoldCreateNamedValues(const Names:array of string;const Values:array of OleVariant):OleVariant;
10904: Function BoldGetNamedValue( Data : OleVariant; const Name : string) : OleVariant
10905: Procedure BoldSetNamedValue( Data : OleVariant; const Name : string; Value : OleVariant)
10906: Function BoldCreateGUID : TGUID
10907: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HRESULT) : Boolean
10908: Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IID:TGUID;out Obj:variant;out
Res:HRESULT):Bool;
10909: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint)
10910: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown);
10911: end;
10912:
10913: (*-----*)
10914: procedure SIRegister_BoldIsoDateTime(CL: TPSPascalCompiler);
10915: begin
10916:   Function ParseISODate( s : string) : TDateTime
10917:   Function ParseISODateTime( s : string) : TDateTime
10918:   Function ParseISOTime( str : string) : TDateTime
10919: end;
10920:
10921: (*-----*)
10922: procedure SIRegister_BoldGUIDUtils(CL: TPSPascalCompiler);
10923: begin
10924:   Function BoldCreateGUIDAsString( StripBrackets : Boolean) : string
10925:   Function BoldCreateGUIDWithBracketsAsString : string
10926: end;
10927:
10928: procedure SIRegister_BoldFileHandler(CL: TPSPascalCompiler);
10929: begin
10930:   FindClass('TOBJECT'), 'T-BoldFileHandler
10931:   FindClass('TOBJECT'), 'T-BoldDiskFileHandler
10932:   //T-BoldFileHandlerClass', 'class of T-BoldFileHandler
10933:   T-BoldInitializeFileContents', 'Procedure ( StringList : TStringList)
10934:   SIRegister_TBoldFileHandler(CL);
10935:   SIRegister_TBoldDiskFileHandler(CL);
10936:   Procedure BoldCloseAllFilehandlers
10937:   Procedure BoldRemoveUnchangedFilesFromEditor
10938:   Function BoldFileHandlerList : T-BoldObjectArray
10939:   Function BoldFileHandlerForFile(path,FileName:String; ModuleType:T-BoldModuleType;ShowInEditor:Bool;
OnInitializeFileContents : T-BoldInitializeFileContents) : T-BoldFileHandler

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10940: end;
10941:
10942: procedure SIRegister_BoldWinINet(CL: TPSPascalCompiler);
10943: begin
10944:   PCharArr, 'array of PChar
10945:   Function BoldInternetOpen(Agent:String;
AccessType:integer;Proxy:String;ProxyByPass:String;Flags:integer):ptr);
10946:   Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags,Context:cardinal):Pointer
10947:   Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumberOfBytesToRead:Card;var
NumberOfBytesRead:Card):LongBool;
10948:   Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
10949:   Function BoldHttpRequestInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
Cardinal; Reserved : Cardinal ) : LongBool
10950:   Function BoldInternetQueryDataAvailable( hFile : Pointer; var NumberOfBytesAvailable : Cardinal; flags :
Cardinal; Context : Cardinal ) : LongBool
10951:   Function BoldHttpRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
: PCharArr; Flags, Context : Cardinal ) : Pointer
10952:   Function BoldHttpRequest(hRequest:Ptr;Headers:string;Optional:Ptr;Optionallength:Cardinal): LongBool
10953:   Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:Ptr):DWORD
10954:   Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
10955:   Function BoldInternetConnect(hInet: HINTERNET;ServerName:string; nServerPort:INTERNET_PORT;
Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):HINTERNET
10956:   Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD;var lpUrlComponents:TURLComponents):BOOL;
10957: end;
10958:
10959: procedure SIRegister_BoldQueryUserDlg(CL: TPSPascalCompiler);
10960: begin
10961:   TBoldQueryResult, '( qrYesAll, qrYes, qrNo, qrNoAll )
10962:   SIRegister_TfrmBoldQueryUser(CL);
10963:   Function QueryUser( const Title, Query : string ) : TBoldQueryResult
10964: end;
10965:
10966: (*-----*)
10967: procedure SIRegister_BoldQueue(CL: TPSPascalCompiler);
10968: begin
10969:   (('befIsInDisplayList','').SetString( BoldElementFlag0);
10970:   (('befStronglyDependedOfPrioritized','').SetString( BoldElementFlag1);
10971:   (('befFollowerSelected','').SetString( BoldElementFlag2);
10972:   FindClass('TOBJECT'),'TBoldQueue
10973:   FindClass('TOBJECT'),'TBoldQueueable
10974:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
10975:   SIRegister_TBoldQueueable(CL);
10976:   SIRegister_TBoldQueue(CL);
10977:   Function BoldQueueFinalized : Boolean
10978:   Function BoldInstalledQueue : TBoldQueue
10979: end;
10980:
10981: procedure SIRegister_Barcode(CL: TPSPascalCompiler);
10982: begin
10983:   const mmPerInch,'Extended').setExtended( 25.4);
10984:   TBarcodeType, '( bcCode_2_5_interleaved, bcCode_2_5_industrial, '
10985:   + ' bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
10986:   + 'Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
10987:   + 'bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
10988:   + 'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
10989:   TBarLineType, '( white, black, black_half )
10990:   TBarcodeOption, '( bcoNone, bcoCode, bcoTyp, bcoBoth )
10991:   TShowTextPosition, '( stpTopLeft, stpTopRight, stpTopCenter, st'
10992:   + 'pBottomLeft, stpBottomRight, stpBottomCenter )
10993:   TChecksumMethod, '( csmNone, csmModulo10 )
10994:   SIRegister_TASBarcode(CL);
10995:   Function CheckSumModulo10( const data : string ) : string
10996:   Function ConvertMmToPixelsX( const Value : Double ) : Integer
10997:   Function ConvertMmToPixelsY( const Value : Double ) : Integer
10998:   Function ConvertInchToPixelsX( const Value : Double ) : Integer
10999:   Function ConvertInchToPixelsY( const Value : Double ) : Integer
11000: end;
11001:
11002: procedure SIRegister_Geometry(CL: TPSPascalCompiler); //OpenGL
11003: begin
11004:   THomogeneousByteVector, 'array[0..3] of Byte
11005:   THomogeneousWordVector, 'array[0..3] of Word
11006:   THomogeneousIntVector, 'array[0..3] of Integer
11007:   THomogeneousFltVector, 'array[0..3] of single
11008:   THomogeneousDblVector, 'array[0..3] of double
11009:   THomogeneousExtVector, 'array[0..3] of extended
11010:   TAffineByteVector, 'array[0..2] of Byte
11011:   TAffineWordVector, 'array[0..2] of Word
11012:   TAffineIntVector, 'array[0..2] of Integer
11013:   TAffineFltVector, 'array[0..2] of single
11014:   TAffineDblVector, 'array[0..2] of double
11015:   TAffineExtVector, 'array[0..2] of extended
11016:   THomogeneousByteMatrix, 'array[0..3] of THomogeneousByteVector
11017:   THomogeneousWordMatrix, 'array[0..3] of THomogeneousWordVector
11018:   THomogeneousIntMatrix, 'array[0..3] of THomogeneousIntVector
11019:   THomogeneousFltMatrix, 'array[0..3] of THomogeneousFltVector
11020:   THomogeneousDblMatrix, 'array[0..3] of THomogeneousDblVector
11021:   THomogeneousExtMatrix, 'array[0..3] of THomogeneousExtVector
11022:   TAffineByteMatrix, 'array[0..2] of TAffineByteVector

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11023: TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11024: TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11025: TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11026: TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11027: TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11028: TMatrix4b', THomogeneousByteMatrix
11029: TMatrix4w', THomogeneousWordMatrix
11030: TMatrix4i', THomogeneousIntMatrix
11031: TMatrix4f', THomogeneousFltMatrix
11032: TMatrix4d', THomogeneousDblMatrix
11033: TMatrix4e', THomogeneousExtMatrix
11034: TMatrix3b', TAffineByteMatrix
11035: TMatrix3w', TAffineWordMatrix
11036: TMatrix3i', TAffineIntMatrix
11037: TMatrix3f', TAffineFltMatrix
11038: TMatrix3d', TAffineDblMatrix
11039: TMatrix3e', TAffineExtMatrix
11040: //PMatrix', '^TMatrix // will not work
11041: TMatrixGL', THomogeneousFltMatrix
11042: THomogeneousMatrix', THomogeneousFltMatrix
11043: TAffineMatrix', TAffineFltMatrix
11044: TQuaternion', 'record Vector : TVector4f; end
11045: TRectangle', 'record Left : integer; Top : integer; Width : inte
11046: +ger; Height : Integer; end
11047: TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11048: + 'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11049: + ', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11050: 'EPSILON', 'Extended').setExtended( 1E-100);
11051: 'EPSILON2', 'Extended').setExtended( 1E-50);
11052: Function VectorAddGL( V1, V2 : TVectorGL) : TVectorGL
11053: Function VectorAffineAdd( V1, V2 : TAffineVector) : TAffineVector
11054: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11055: Function VectorAffineDotProduct( V1, V2 : TAffineVector) : Single
11056: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single) : TAffineVector
11057: Function VectorAffineSubtract( V1, V2 : TAffineVector) : TAffineVector
11058: Function VectorAngle( V1, V2 : TAffineVector) : Single
11059: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single) : TVectorGL
11060: Function VectorCrossProduct( V1, V2 : TAffineVector) : TAffineVector
11061: Function VectorDotProduct( V1, V2 : TVectorGL) : Single
11062: Function VectorLength( V : array of Single) : Single
11063: Function VectorLerp( V1, V2 : TVectorGL; t : Single) : TVectorGL
11064: Procedure VectorNegate( V : array of Single)
11065: Function VectorNorm( V : array of Single) : Single
11066: Function VectorNormalize( V : array of Single) : Single
11067: Function VectorPerpendicular( V, N : TAffineVector) : TAffineVector
11068: Function VectorReflect( V, N : TAffineVector) : TAffineVector
11069: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single)
11070: Procedure VectorScale( V : array of Single; Factor : Single)
11071: Function VectorSubtractGL( V1, V2 : TVectorGL) : TVectorGL
11072: Function CreateRotationMatrixX( Sine, Cosine : Single) : TMatrixGL
11073: Function CreateRotationMatrixY( Sine, Cosine : Single) : TMatrixGL
11074: Function CreateRotationMatrixZ( Sine, Cosine : Single) : TMatrixGL
11075: Function CreateScaleMatrix( V : TAffineVector) : TMatrixGL
11076: Function CreateTranslationMatrix( V : TVectorGL) : TMatrixGL
11077: Procedure MatrixAdjoint( var M : TMatrixGL)
11078: Function MatrixAffineDeterminant( M : TAffineMatrix) : Single
11079: Procedure MatrixAffineTranspose( var M : TAffineMatrix)
11080: Function MatrixDeterminant( M : TMatrixGL) : Single
11081: Procedure MatrixInvert( var M : TMatrixGL)
11082: Function MatrixMultiply( M1, M2 : TMatrixGL) : TMatrixGL
11083: Procedure MatrixScale( var M : TMatrixGL; Factor : Single)
11084: Procedure MatrixTranspose( var M : TMatrixGL)
11085: Function QuaternionConjugate( Q : TQuaternion) : TQuaternion
11086: Function QuaternionFromPoints( V1, V2 : TAffineVector) : TQuaternion
11087: Function QuaternionMultiply( qL, qR : TQuaternion) : TQuaternion
11088: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11089: Function QuaternionToMatrix( Q : TQuaternion) : TMatrixGL
11090: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector)
11091: Function ConvertRotation( Angles : TAffineVector) : TVectorGL
11092: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single) : TMatrixGL
11093: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations) : Boolean
11094: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix) : TAffineVector
11095: Function VectorTransform( V : TVector4f; M : TMatrixGL) : TVector4f;
11096: Function VectorTransforml( V : TVector3f; M : TMatrixGL) : TVector3f;
11097: Function MakeAffineDblVector( V : array of Double) : TAffineDblVector
11098: Function MakeDblVector( V : array of Double) : THomogeneousDblVector
11099: Function MakeAffineVector( V : array of Single) : TAffineVector
11100: Function MakeQuaternion( Imag : array of Single; Real : Single) : TQuaternion
11101: Function MakeVector( V : array of Single) : TVectorGL
11102: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single) : Boolean
11103: Function VectorAffineDblToFlt( V : TAffineDblVector) : TAffineVector
11104: Function VectorDblToFlt( V : THomogeneousDblVector) : THomogeneousVector
11105: Function VectorAffineFltToDbl( V : TAffineVector) : TAffineDblVector
11106: Function VectorFltToDbl( V : TVectorGL) : THomogeneousDblVector
11107: Function ArcCosGL( X : Extended) : Extended
11108: Function ArcSinGL( X : Extended) : Extended
11109: Function ArcTan2GL( Y, X : Extended) : Extended
11110: Function CoTanGL( X : Extended) : Extended
11111: Function DegToRadGL( Degrees : Extended) : Extended

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11112: Function RadToDegGL( Radians : Extended) : Extended
11113: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended)
11114: Function TanGL( X : Extended) : Extended
11115: Function Turn( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11116: Function Turn1( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11117: Function Pitch( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11118: Function Pitch1( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11119: Function Roll( Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
11120: Function Roll1( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11121: end;
11122:
11123:
11124: procedure SIRegister_JclRegistry(CL: TPSPascalCompiler);
11125: begin
11126:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string) : Longint
11127:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string) : Boolean
11128:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string) : Boolean
11129:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string) : Boolean
11130:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean) : Boolean
11131:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string) : Integer
11132:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer) : Integer
11133:   Function RegReadString( const RootKey : HKEY; const Key, Name : string) : string
11134:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string) : string
11135:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string) : Int64
11136:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64) : Int64
11137:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean)
11138:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer)
11139:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string)
11140:   Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64)
11141:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings) : Boolean
11142:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings) : Boolean
11143:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string) : Boolean
11144:   Function RegKeyExists( const RootKey : HKEY; const Key : string) : Boolean
11145:   AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser'
11146:     + 'RunOnce, ekServiceRun, ekServiceRunOnce )'
11147:   AddClassN(FindClass('TOBJECT'),'EJclRegistryError
11148:   Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string) : Boolean
11149:   Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string) : Boolean
11150:   Function RegSaveList(const RootKey:HKEY;const Key:string; const ListName:string;const
Items:TStrings):Bool;
11151:   Function RegLoadList(const RootKey:HKEY;const Key:string;const ListName:string;const
SaveTo:TStrings):Bool;
11152:   Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string) : Boolean
11153: end;
11154:
11155: procedure SIRegister_JclCOM(CL: TPSPascalCompiler);
11156: begin
11157:   CLSID_StdComponentCategoriesMgr, 'TGUID').SetString( '{0002E005-0000-0000-C000-000000000046}'
11158:   CATID_SafeForInitializing, 'TGUID').SetString( '{7DD95802-9882-11CF-9FA9-00AA006C42C4}'
11159:   CATID_SafeForScripting, 'TGUID').SetString( '{7DD95801-9882-11CF-9FA9-00AA006C42C4}'
11160:   icMAX_CATEGORY_DESC_LEN, 'LongInt').SetInt( 128);
11161:   FindClass('TOBJECT'),'EInvalidParam
11162:   Function IsDCOMInstalled : Boolean
11163:   Function IsDCOMEnabled : Boolean
11164:   Function GetDCOMVersion : string
11165:   Function GetMDACVersion : string
11166:   Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;
11167:   Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var stm:IStream):HResult;
11168:   Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;
11169:   Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream):HResult;
11170:   Function MarshalInterMachineInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;
11171:   Function CreateComponentCategory( const CatID : TGUID; const sDescription : string) : HResult
11172:   Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HResult
11173:   Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HResult
11174:   Function ResetIStreamToStart( Stream : IStream) : Boolean
11175:   Function SizeOfIStreamContents( Stream : IStream) : Largeint
11176:   Function StreamToVariantArray( Stream : TStream) : OleVariant;
11177:   Function StreamToVariantArray1( Stream : IStream) : OleVariant;
11178:   Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream);
11179:   Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream);
11180: end;
11181:
11182:
11183: procedure SIRegister_JclUnitConv_mx2(CL: TPSPascalCompiler);
11184: begin
11185:   Const ('CelsiusFreezingPoint', 'Extended').setExtended( 0.0);
11186:   FahrenheitFreezingPoint, 'Extended').setExtended( 32.0);
11187:   KelvinFreezingPoint, 'Extended').setExtended( 273.15);
11188:   CelsiusAbsoluteZero, 'Extended').setExtended( - 273.15);
11189:   FahrenheitAbsoluteZero, 'Extended').setExtended( - 459.67);
11190:   KelvinAbsoluteZero, 'Extended').setExtended( 0.0);
11191:   DegPerCycle, 'Extended').setExtended( 360.0);
11192:   DegPerGrad, 'Extended').setExtended( 0.9);
11193:   DegPerRad, 'Extended').setExtended( 57.295779513082320876798154814105);
11194:   GradPerCycle, 'Extended').setExtended( 400.0);
11195:   GradPerDeg, 'Extended').setExtended( 1.111111111111111111111111111111);

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11196: GradPerRad('Extended').setExtended( 63.661977236758134307553505349006);
11197: RadPerCycle('Extended').setExtended( 6.283185307179586476925286766559);
11198: RadPerDeg('Extended').setExtended( 0.017453292519943295769236907684886);
11199: RadPerGrad('Extended').setExtended( 0.015707963267948966192313216916398);
11200: CyclePerDeg('Extended').setExtended( 0.00277777777777777777777777777777);
11201: CyclePerGrad('Extended').setExtended( 0.0025);
11202: CyclePerRad('Extended').setExtended( 0.15915494309189533576888376337251);
11203: ArcMinutesPerDeg('Extended').setExtended( 60.0);
11204: ArcSecondsPerArcMinute('Extended').setExtended( 60.0);
11205: Function HowAOneLinerCanBiteYou( const Step, Max : Longint ) : Longint
11206: Function MakePercentage( const Step, Max : Longint ) : Longint
11207: Function CelsiusToKelvin( const T : double ) : double
11208: Function CelsiusToFahrenheit( const T : double ) : double
11209: Function KelvinToCelsius( const T : double ) : double
11210: Function KelvinToFahrenheit( const T : double ) : double
11211: Function FahrenheitToCelsius( const T : double ) : double
11212: Function FahrenheitToKelvin( const T : double ) : double
11213: Function CycleToDeg( const Cycles : double ) : double
11214: Function CycleToGrad( const Cycles : double ) : double
11215: Function CycleToRad( const Cycles : double ) : double
11216: Function DegToCycle( const Degrees : double ) : double
11217: Function DegToGrad( const Degrees : double ) : double
11218: Function DegToRad( const Degrees : double ) : double
11219: Function GradToCycle( const Grads : double ) : double
11220: Function GradToDeg( const Grads : double ) : double
11221: Function GradToRad( const Grads : double ) : double
11222: Function RadToCycle( const Radians : double ) : double
11223: Function RadToDeg( const Radians : double ) : double
11224: Function RadToGrad( const Radians : double ) : double
11225: Function DmsToDeg( const D, M : Integer; const S : double ) : double
11226: Function DmsToRad( const D, M : Integer; const S : double ) : double
11227: Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double)
11228: Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal ) : string
11229: Procedure CartesianToPolar( const X, Y : double; out R, Phi : double)
11230: Procedure PolarToCartesian( const R, Phi : double; out X, Y : double)
11231: Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double)
11232: Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double)
11233: Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double)
11234: Procedure SphericToCartesian( const Rho, Phi, Theta : double; out X, Y, Z : double)
11235: Function CmToInch( const Cm : double ) : double
11236: Function InchToCm( const Inch : double ) : double
11237: Function FeetToMetre( const Feet : double ) : double
11238: Function MetreToFeet( const Metre : double ) : double
11239: Function YardToMetre( const Yard : double ) : double
11240: Function MetreToYard( const Metre : double ) : double
11241: Function NmToKm( const Nm : double ) : double
11242: Function KmToNm( const Km : double ) : double
11243: Function KmToSm( const Km : double ) : double
11244: Function SmToKm( const Sm : double ) : double
11245: Function LitreToGalUs( const Litre : double ) : double
11246: Function GalUsToLitre( const GalUs : double ) : double
11247: Function GalUsToGalCan( const GalUs : double ) : double
11248: Function GalCanToGalUs( const GalCan : double ) : double
11249: Function GalUsToGalUk( const GalUs : double ) : double
11250: Function GalUkToGalUs( const GalUk : double ) : double
11251: Function LitreToGalCan( const Litre : double ) : double
11252: Function GalCanToLitre( const GalCan : double ) : double
11253: Function LitreToGalUk( const Litre : double ) : double
11254: Function GalUkToLitre( const GalUk : double ) : double
11255: Function KgToLb( const Kg : double ) : double
11256: Function LbToKg( const Lb : double ) : double
11257: Function KgToOz( const Kg : double ) : double
11258: Function OzToKg( const Oz : double ) : double
11259: Function CwtUsToKg( const Cwt : double ) : double
11260: Function CwtUkToKg( const Cwt : double ) : double
11261: Function KaratToKg( const Karat : double ) : double
11262: Function KgToCwtUs( const Kg : double ) : double
11263: Function KgToCwtUk( const Kg : double ) : double
11264: Function KgToKarat( const Kg : double ) : double
11265: Function KgToSton( const Kg : double ) : double
11266: Function KgToLton( const Kg : double ) : double
11267: Function StonToKg( const STon : double ) : double
11268: Function LtonToKg( const Lton : double ) : double
11269: Function QrUsToKg( const Qr : double ) : double
11270: Function QrUkToKg( const Qr : double ) : double
11271: Function KgToQrUs( const Kg : double ) : double
11272: Function KgToQrUk( const Kg : double ) : double
11273: Function PascalToBar( const Pa : double ) : double
11274: Function PascalToAt( const Pa : double ) : double
11275: Function PascalToTorr( const Pa : double ) : double
11276: Function BarToPascal( const Bar : double ) : double
11277: Function AtToPascal( const At : double ) : double
11278: Function TorrToPascal( const Torr : double ) : double
11279: Function KnotToMs( const Knot : double ) : double
11280: Function HpElectricToWatt( const HpE : double ) : double
11281: Function HpMetricToWatt( const HpM : double ) : double
11282: Function MsToKnot( const ms : double ) : double
11283: Function WattToHpElectric( const W : double ) : double
11284: Function WattToHpMetric( const W : double ) : double
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11285: function getBigPI: string; //PI of 1000 numbers
11286:
11287: procedure SIRegister_devcutils(CL: TPSPascalCompiler);
11288: begin
11289:   Function CDEExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
11290:   Procedure CDCopyFile( const FileName, DestName : string)
11291:   Procedure CDMoveFile( const FileName, DestName : string)
11292:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor ) : TColor
11293:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11294:   Function CDGetTempDir : string
11295:   Function CDGetFileSize( FileName : string ) : longint
11296:   Function GetFileTime( FileName : string ) : longint
11297:   Function GetShortName( FileName : string ) : string
11298:   Function GetFullName( FileName : string ) : string
11299:   Function WinReboot : boolean
11300:   Function WinDir : String
11301:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean ) : cardinal
11302:   Function RunFile_( Cmd, WorkDir : string; Wait : boolean ) : Boolean
11303:   Function devExecutor : TdevExecutor
11304: end;
11305:
11306: procedure SIRegister_FileAssocs(CL: TPSPascalCompiler);
11307: begin
11308:   Procedure CheckAssociations // AssociationsCount', 'LongInt').SetInt( 7);
11309:   Procedure Associate( Index : integer)
11310:   Procedure UnAssociate( Index : integer)
11311:   Function IsAssociated( Index : integer ) : boolean
11312:   Function CheckFileType( const extension, filetype, description, verb, serverapp : string ) : boolean
11313:   Procedure RegisterFileType( const extension, filetype, description, verb, serverapp, IcoNum: string)
11314:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11315:   procedure RefreshIcons;
11316:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11317:   function MergColor(Colors: Array of TColor): TColor;
11318:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11319:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11320:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11321:   function GetInverseColor(AColor: TColor): TColor;
11322:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11323:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer;ShadowColor: TColor);
11324:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11325:   Procedure GetSystemMenuFont(Font: TFont);
11326: end;
11327:
11328: //*****unit uPSI_JvHLPParser;*****
11329: function IsStringConstant(const St: string): Boolean;
11330: function IsIntConstant(const St: string): Boolean;
11331: function IsRealConstant(const St: string): Boolean;
11332: function IsIdentifier(const ID: string): Boolean;
11333: function GetStringValue(const St: string): string;
11334: procedure ParseString(const S: string; Ss: TStrings);
11335: function IsStringConstantW(const St: WideString): Boolean;
11336: function IsIntConstantW(const St: WideString): Boolean;
11337: function IsRealConstantW(const St: WideString): Boolean;
11338: function IsIdentifierW(const ID: WideString): Boolean;
11339: function GetStringValueW(const St: WideString): WideString;
11340: procedure ParseStringW(const S: WideString; Ss: TStrings);
11341:
11342:
11343: //*****unit uPSI_JclMapi;*****
11344:
11345: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment :
  TFileName; ShowDialog : Boolean; AParentWND : HWND ) : Boolean
11346: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment :
  TFileName; ShowDialog : Boolean; AParentWND : HWND ) : Boolean
11347: Function JclSimpleBringUpSendMailDialog(const ASubject, ABody: string; const
  AAttach: TFileName; AParentWND: HWND): Bool
11348: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11349: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11350:
11351: procedure SIRegister_IdNTLM(CL: TPSPascalCompiler);
11352: begin
11353:   // 'Pdes_key_schedule', '^des_key_schedule // will not work
11354:   Function BuildType1Message( ADomain, AHost : String ) : String
11355:   Function BuildType3Message(ADomain, AHost, AUsername: WideString; APassword, ANonce: String): String
11356:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIdAuthenticationClass)
11357:   Function FindAuthClass( AuthName : String ) : TIdAuthenticationClass
11358:   GBase64CodeTable(, 'string').SetString(' ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
11359:   GXHECodeTable(, 'string').SetString('+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
11360:   GUUECodeTable(, 'string').SetString('! " # $ % & ' ( ) * , - . / 0 1 2 3 4 5 6 7 8 9 ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _
11361: end;
11362:
11363: procedure SIRegister_WDosSocketUtils(CL: TPSPascalCompiler);
11364: begin
11365:   ('IpAny', 'LongWord').SetUInt( $00000000);
11366:   IpLoopBack(, 'LongWord').SetUInt( $7F000001);
11367:   IpBroadcast(, 'LongWord').SetUInt( $FFFFFFF);
11368:   IpNone(, 'LongWord').SetUInt( $FFFFFFF);
11369:   PortAny(, 'LongWord').SetUInt( $0000);
11370:   SocketMaxConnections(, 'LongInt').SetInt( 5);

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11371: TIpAddr', 'LongWord
11372: TIpRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11373: Function HostToNetLong( HostLong : LongWord ) : LongWord
11374: Function HostToNetShort( HostShort : Word ) : Word
11375: Function NetToHostLong( NetLong : LongWord ) : LongWord
11376: Function NetToHostShort( NetShort : Word ) : Word
11377: Function StrToIp( Ip : string ) : TIpAddr
11378: Function IpToStr( Ip : TIpAddr ) : string
11379: end;
11380:
11381: (*-----*)
11382: procedure SIRegister_ALSMTPClient(CL: TPSPascalCompiler);
11383: begin
11384:   TALSMTPClientAuthType', '( AlsmtpClientAuthNone, alsmtpClientAut
11385:     + 'hPlain, AlsmtpClientAuthLogin, AlsmtpClientAuthCramMD5, AlsmtpClientAuthCr
11386:     + 'amShal, AlsmtpClientAuthAutoSelect )
11387:   TALSMTPClientAuthTypeSet', 'set of TALSMTPClientAuthType
11388:   SIRegister_TALSMTPClient(CL);
11389: end;
11390:
11391: procedure SIRegister_WDosPlcUtils(CL: TPSPascalCompiler);
11392: begin
11393:   TBitNo', 'Integer
11394:   TStByteNo', 'Integer
11395:   TStationNo', 'Integer
11396:   TInOutNo', 'Integer
11397:   TIO', '( EE, AA, NE, NA )
11398:   TBitSet', 'set of TBitNo
11399:   TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11400:   TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11401:   TBitAddr', 'LongInt
11402:   TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11403:   TByteAddr', 'SmallInt
11404:   TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11405:   Function BitAddr(aIo: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11406:   Function BusBitAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11407:   Procedure BitAddrToValues(aBitAdr:TBitAdr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var
aBitNo:TBitNo);
11408:   Function BitAddrToStr( Value : TBitAddr ) : string
11409:   Function StrToBitAddr( const Value : string ) : TBitAddr
11410:   Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11411:   Function BusByteAddr(aIo:TIO;aInOutNo:TInOutNo;aStation:TStatNo;aStByteNo:TStByteNo):TByteAddr
11412:   Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11413:   Function ByteAddrToStr( Value : TByteAddr ) : string
11414:   Function StrToByteAddr( const Value : string ) : TByteAddr
11415:   Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer)
11416:   Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer)
11417:   Function InOutStateToStr( State : TInOutState ) : string
11418:   Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11419:   Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11420: end;
11421:
11422: procedure SIRegister_WDosTimers(CL: TPSPascalCompiler);
11423: begin
11424:   TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11425:     + 'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11426:   DpmiPmVector', 'Int64
11427:   'DInterval', 'LongInt').SetInt( 1000);
11428:   //'DEnabled', 'Boolean')BoolToStr( True);
11429:   'DIntFreq', 'string').SetString( if64);
11430:   //'DMessages', 'Boolean').SetString( if64);
11431:   SIRegister_TwdxCuomTimer(CL);
11432:   SIRegister_TwdXTimer(CL);
11433:   SIRegister_TwdXRtcTimer(CL);
11434:   SIRegister_TCustomIntTimer(CL);
11435:   SIRegister_TIntTimer(CL);
11436:   SIRegister_TRtcIntTimer(CL);
11437:   Function RealNow : TDateTime
11438:   Function MsToDateTime( MilliSecond : LongInt ) : TDateTime
11439:   Function DateTimeToMs( Time : TDateTime ) : LongInt
11440: end;
11441:
11442: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11443: begin
11444:   TIdSyslogPRI', 'Integer
11445:   TIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy
11446:     + 'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc
11447:     + 'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC
11448:     + 'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr
11449:     + 'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11450:   TIdSyslogSeverity', '(slEmergency,slAlert,slCritical,slError,slWarning,slNotice,slInformational,slDebug)
11451:   SIRegister_TIdSysLogMsgPart(CL);
11452:   SIRegister_TIdSysLogMessage(CL);
11453:   Function FacilityToString( AFac : TIdSyslogFacility ) : string
11454:   Function SeverityToString( ASec : TIdSyslogSeverity ) : string
11455:   Function NoToSeverity( ASev : Word ) : TIdSyslogSeverity
11456:   Function logSeverityToNo( ASev : TIdSyslogSeverity ) : Word
11457:   Function NoToFacility( AFac : Word ) : TIdSyslogFacility
11458:   Function logFacilityToNo( AFac : TIdSyslogFacility ) : Word

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11459: end;
11460:
11461: procedure SIRegister_TextUtils(CL: TPSPascalCompiler);
11462: begin
11463:   'UWhitespace','String')).SetString( '(?:\s*)
11464:   Function StripSpaces( const AText : string) : string
11465:   Function CharCount( const AText : string; Ch : Char) : Integer
11466:   Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer) : string
11467:   Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer) : string
11468: end;
11469:
11470:
11471: procedure SIRegister_ExtPascalUtils(CL: TPSPascalCompiler);
11472: begin
11473:   ExtPascalVersion','String')).SetString( '0.9.8
11474:   AddTypeS('TBrowser', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11475:   + 'Opera, brKonqueror, brMobileSafari )
11476:   AddTypeS('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11477:   AddTypeS('TExtProcedure', 'Procedure
11478:   Function DetermineBrowser( const UserAgentStr : string) : TBrowser
11479:   Function ExtExtract(const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool):bool;
11480:   Function ExtExplode( Delim : char; const S : string; Separator : char) : TStringList
11481:   Function FirstDelimiter( const Delimiters, S : string; Offset : integer) : integer
11482:   Function RPosEx( const Substr, Str : string; Offset : integer) : integer
11483:   Function CountStr( const Substr, Str : string; UntilStr : string) : integer
11484:   Function StrToJS( const S : string; UseBR : boolean) : string
11485:   Function CaseOf( const S : string; const Cases : array of string) : integer
11486:   Function RCaseOf( const S : string; const Cases : array of string) : integer
11487:   Function EnumToJSSString( TypeInfo : PTypeInfo; Value : integer) : string
11488:   Function SetPaddings(Top:integer;Right:int;Bottom:intr;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11489:   Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool): string;
11490:   Function ExtBefore( const BeforeS, AfterS, S : string) : boolean
11491:   Function IsUpperCase( S : string) : boolean
11492:   Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11493:   Function BeautifyCSS( const AStyle : string) : string
11494:   Function LengthRegExp( Rex : string; CountAll : Boolean) : integer
11495:   Function JSDateToDateTime( JSDate : string) : TDateTime
11496: end;
11497:
11498: procedure SIRegister_JclShell(CL: TPSPascalCompiler);
11499: begin
11500:   TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11501:   TSHDeleteOptions', 'set of TSHDeleteOption
11502:   TSHRenameOption', '( roSilent, roRenameOnCollision )
11503:   TSHRenameOptions', 'set of TSHRenameOption
11504:   Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions) : Boolean
11505:   Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions) : Boolean
11506:   Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions) : Boolean
11507:   TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11508:   TEnumFolderFlags', 'set of TEnumFolderFlag
11509:   TEnumFolderRec', 'record DisplayName : string; Attributes : DWORD'
11510:   + 'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11511:   + 'IEnumIdList; Folder : IShellFolder; end
11512:   Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11513:   Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11514:   Procedure SHEnumFolderClose( var F : TEnumFolderRec)
11515:   Function SHEnumFolderNext( var F : TEnumFolderRec) : Boolean
11516:   Function GetSpecialFolderLocation( const Folder : Integer) : string
11517:   Function DisplayPropDialog( const Handle : HWND; const FileName : string) : Boolean;
11518:   Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList) : Boolean;
11519:   Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint) : Boolean
11520:   Function OpenFolder( const Path : string; Parent : HWND) : Boolean
11521:   Function OpenSpecialFolder( FolderID : Integer; Parent : HWND) : Boolean
11522:   Function SHReallocMem( var P : Pointer; Count : Integer) : Boolean
11523:   Function SHAllocMem( out P : Pointer; Count : Integer) : Boolean
11524:   Function SHGetMem( var P : Pointer; Count : Integer) : Boolean
11525:   Function SHFreeMem( var P : Pointer) : Boolean
11526:   Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder) : PItemIdList
11527:   Function PathToPidl( const Path : string; Folder : IShellFolder) : PItemIdList
11528:   Function PathToPidlBind( const FileName : string; out Folder : IShellFolder) : PItemIdList
11529:   Function PidlBindToParent(const IdList:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11530:   Function PidlCompare( const Pidl1, Pidl2 : PItemIdList) : Boolean
11531:   Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList) : Boolean
11532:   Function PidlFree( var IdList : PItemIdList) : Boolean
11533:   Function PidlGetDepth( const Pidl : PItemIdList) : Integer
11534:   Function PidlGetLength( const Pidl : PItemIdList) : Integer
11535:   Function PidlGetNext( const Pidl : PItemIdList) : PItemIdList
11536:   Function PidlToPath( IdList : PItemIdList) : string
11537:   Function StrRetFreeMem( StrRet : TStrRet) : Boolean
11538:   Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean) : string
11539:   PShellLink', '^TShellLink // will not work
11540:   TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11541:   + 'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11542:   + ': string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11543:   Procedure ShellLinkFree( var Link : TShellLink)
11544:   Function ShellLinkResolve( const FileName : string; var Link : TShellLink) : HRESULT
11545:   Function ShellLinkCreate( const Link : TShellLink; const FileName : string) : HRESULT
11546:   Function ShellLinkCreateSystem(const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11547:   Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon) : Boolean

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11548: Function SHDllGetVersion( const FileName : string; var Version : TDllVersionInfo) : Boolean
11549: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal) : HICON
11550: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean) : Boolean
11551: Function OverlayIconShortCut( var Large, Small : HICON) : Boolean
11552: Function OverlayIconShared( var Large, Small : HICON) : Boolean
11553: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList) : string
11554: Function ShellExecEx(const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int):Bool;
11555: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int):Bool;
11556: Function ShellExecAndWait(const FileName:string;const Paramets:string;const Verb:string;CmdShow:Int):Bool;
11557: Function ShellOpenAs( const FileName : string) : Boolean
11558: Function ShellRasDial( const EntryName : string) : Boolean
11559: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11560: Function GetFileNameIcon( const FileName : string; Flags : Cardinal) : HICON
11561: Function TJclFileExeType( const EntryName : string) : Boolean
11562: Function GetFileExeType( const FileName : TFileName) : TJclFileExeType
11563: Function ShellFindExecutable( const FileName, DefaultDir : string) : string
11564: Procedure keybd_event( bVk : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD)
11565: Function OemKeyScan( wOemChar : Word) : DWORD
11566: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD)
11567: end;
11568:
11569: procedure SIRegister_cXMLFunctions(CL: TPSPascalCompiler);
11570: begin
11571:   xmlVersion', 'String').SetString( '1.0 FindClass('TOBJECT'),'Exml
11572:   //Function xmlValidChar( const Ch : AnsiChar) : Boolean;
11573:   Function xmlValidChar1( const Ch : UCS4Char) : Boolean;
11574:   Function xmlValidChar2( const Ch : WideChar) : Boolean;
11575:   Function xmlIsSpaceChar( const Ch : WideChar) : Boolean
11576:   Function xmlIsLetter( const Ch : WideChar) : Boolean
11577:   Function xmlIsDigit( const Ch : WideChar) : Boolean
11578:   Function xmlIsNameStartChar( const Ch : WideChar) : Boolean
11579:   Function xmlIsNameChar( const Ch : WideChar) : Boolean
11580:   Function xmlIsPubidChar( const Ch : WideChar) : Boolean
11581:   Function xmlValidName( const Text : UnicodeString) : Boolean
11582:   //xmlSpace', 'Char').SetString( # $20 or # $9 or # $D or # $A);
11583:   //Function xmlSkipSpace( var P : PWideChar) : Boolean
11584:   //Function xmlSkipEq( var P : PWideChar) : Boolean
11585:   //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString) : Boolean
11586:   //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer)
11587:   : TUnicodeCodecClass
11588:   Function xmlResolveEntityReference( const RefName : UnicodeString) : WideChar
11589:   Function xmlTag( const Tag : UnicodeString) : UnicodeString
11590:   Function xmlEndTag( const Tag : UnicodeString) : UnicodeString
11591:   Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString) : UnicodeString
11592:   Function xmlEmptyTag( const Tag, Attr : UnicodeString) : UnicodeString
11593:   Procedure xmlSafeTextInPlace( var Txt : UnicodeString)
11594:   Function xmlSafeText( const Txt : UnicodeString) : UnicodeString
11595:   Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer):UnicodeString
11596:   Function xmlTabIndent( const IndentLevel : Integer) : UnicodeString
11597:   Function xmlComment( const Comment : UnicodeString) : UnicodeString
11598:   Procedure SelfTestcXMLFunctions
11599: end;
11600:
11601: (*-----*)
11602: procedure SIRegister_DepWalkUtils(CL: TPSPascalCompiler);
11603: begin
11604:   Function AwaitCursor : IUnknown
11605:   Function ChangeCursor( NewCursor : TCursor) : IUnknown
11606:   Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean)
11607:   Function YesNo( const ACaption, AMsg : string) : boolean
11608:   Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings)
11609:   Function GetBorlandLibPath( Version : integer; ForDelphi : boolean) : string
11610:   Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean) : string
11611:   Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings)
11612:   Procedure GetSystemPaths( Strings : TStrings)
11613:   Procedure MakeEditNumeric( EditHandle : integer)
11614: end;
11615:
11616: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11617: begin
11618:   AddTypes( 'TVideoCodec', '(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11619:   'BI_YUY2', 'LongWord').SetUInt( $32595559);
11620:   'BI_UYVY', 'LongWord').SetUInt( $59565955);
11621:   'BI_BTUV', 'LongWord').SetUInt( $50313459);
11622:   'BI_YVU9', 'LongWord').SetUInt( $39555659);
11623:   'BI_YUV12', 'LongWord').SetUInt( $30323449);
11624:   'BI_Y8', 'LongWord').SetUInt( $20203859);
11625:   'BI_Y211', 'LongWord').SetUInt( $31313259);
11626:   Function BICompressionToVideoCodec( Value : DWord) : TVideoCodec
11627:   Function ConvertCodecToRGB(Coec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11628: end;
11629: (*-----*)
11630: procedure SIRegister_AviCap(CL: TPSPascalCompiler);
11631: begin
11632:   'WM_USER', 'LongWord').SetUInt( $0400);
11633:   'WM_CAP_START', 'LongWord').SetUInt($0400);
11634:   'WM_CAP_END', 'LongWord').SetUInt($0400+85);
11635:   //WM_CAP_START+ 85

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11636: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11637: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt) : LongInt
11638: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt) : LongInt
11639: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt) : LongInt
11640: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt) : LongInt
11641: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt) : LongInt
11642: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt) : LongInt
11643: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt) : LongInt
11644: Function capSetUserData( hwnd : THandle; lUser : LongInt) : LongInt
11645: Function capGetUserData( hwnd : THandle) : LongInt
11646: Function capDriverConnect( hwnd : THandle; I : Word) : LongInt
11647: Function capDriverDisconnect( hwnd : THandle) : LongInt
11648: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11649: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word) : LongInt
11650: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11651: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt) : LongInt
11652: Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11653: Function capFileAlloc( hwnd : THandle; dwSize : LongInt) : LongInt
11654: Function capFileSaveAs( hwnd : THandle; szName : LongInt) : LongInt
11655: Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt) : LongInt
11656: Function capFileSaveDIB( hwnd : THandle; szName : LongInt) : LongInt
11657: Function capEditCopy( hwnd : THandle) : LongInt
11658: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11659: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11660: Function capGetAudioFormatSize( hwnd : THandle) : LongInt
11661: Function capDlgVideoFormat( hwnd : THandle) : LongInt
11662: Function capDlgVideoSource( hwnd : THandle) : LongInt
11663: Function capDlgVideoDisplay( hwnd : THandle) : LongInt
11664: Function capDlgVideoCompression( hwnd : THandle) : LongInt
11665: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11666: Function capGetVideoFormatSize( hwnd : THandle) : LongInt
11667: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11668: Function capPreview( hwnd : THandle; f : Word) : LongInt
11669: Function capPreviewRate( hwnd : THandle; wMS : Word) : LongInt
11670: Function capOverlay( hwnd : THandle; f : Word) : LongInt
11671: Function capPreviewScale( hwnd : THandle; f : Word) : LongInt
11672: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11673: Function capSetScrollPos( hwnd : THandle; lpP : LongInt) : LongInt
11674: Function capGrabFrame( hwnd : THandle) : LongInt
11675: Function capGrabFrameNoStop( hwnd : THandle) : LongInt
11676: Function capCaptureSequence( hwnd : THandle) : LongInt
11677: Function capCaptureSequenceNoFile( hwnd : THandle) : LongInt
11678: Function capCaptureStop( hwnd : THandle) : LongInt
11679: Function capCaptureAbort( hwnd : THandle) : LongInt
11680: Function capCaptureSingleFrameOpen( hwnd : THandle) : LongInt
11681: Function capCaptureSingleFrameClose( hwnd : THandle) : LongInt
11682: Function capCaptureSingleFrame( hwnd : THandle) : LongInt
11683: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11684: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11685: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt) : LongInt
11686: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11687: Function capPaletteOpen( hwnd : THandle; szName : LongInt) : LongInt
11688: Function capPaletteSave( hwnd : THandle; szName : LongInt) : LongInt
11689: Function capPalettePaste( hwnd : THandle) : LongInt
11690: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt) : LongInt
11691: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt) : LongInt
11692: //PCapDriverCaps', 'TCapDriverCaps // will not work
11693: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11694: +'; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11695: +'; y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hVid'
11696: +'; eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11697: //PCapStatus', 'TCapStatus // will not work
11698: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11699: +'; fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOINT'
11700: +'; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11701: +'; OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11702: +'; rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11703: +'; ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD;'
11704: +'; wNumAudioAllocated : WORD; end
11705: //PCaptureParms', 'TCaptureParms // will not work
11706: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11707: +'; UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'
11708: +'; ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11709: +'; deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11710: +'; Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11711: +'; ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11712: +'; wMCIStartTime : DWORD; dwMCIStopTime : DWORD; fStepCaptureAt2x : BOOL; wSt'
11713: +'; epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11714: +'; he : BOOL; AVStreamMaster : WORD; end
11715: // PCapInfoChunk', 'TCapInfoChunk // will not work
11716: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11717: 'CONTROLCALLBACK_PREROLL', 'LongInt').SetInt( 1);
11718: 'CONTROLCALLBACK_CAPTURING', 'LongInt').SetInt( 2);
11719: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWORD; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer) : THandle
11720: Function
capGetDriverDescription( wDriverIndex:DWORD; lpszName:PChar; cbName:Integer; lpszVer:PChar; cbVer:Integer):Bool;
11721: 'IDS_CAP_BEGIN', 'LongInt').SetInt( 300);
11722: 'IDS_CAP_END', 'LongInt').SetInt( 301);

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11723: 'IDS_CAP_INFO', 'LongInt').SetInt( 401);
11724: 'IDS_CAP_OUTOFMEM', 'LongInt').SetInt( 402);
11725: 'IDS_CAP_FILEEXISTS', 'LongInt').SetInt( 403);
11726: 'IDS_CAP_ERRORPALOPEN', 'LongInt').SetInt( 404);
11727: 'IDS_CAP_ERRORPALSAVE', 'LongInt').SetInt( 405);
11728: 'IDS_CAP_ERRORDIBSAVE', 'LongInt').SetInt( 406);
11729: 'IDS_CAP_DEFAVIEXT', 'LongInt').SetInt( 407);
11730: 'IDS_CAP_DEFPALEXT', 'LongInt').SetInt( 408);
11731: 'IDS_CAP_CANTOPEN', 'LongInt').SetInt( 409);
11732: 'IDS_CAP_SEQ_MSGSTART', 'LongInt').SetInt( 410);
11733: 'IDS_CAP_SEQ_MSGSTOP', 'LongInt').SetInt( 411);
11734: 'IDS_CAP_VIDEDITERR', 'LongInt').SetInt( 412);
11735: 'IDS_CAP_READONLYFILE', 'LongInt').SetInt( 413);
11736: 'IDS_CAP_WRITEERROR', 'LongInt').SetInt( 414);
11737: 'IDS_CAP_NODISKSPACE', 'LongInt').SetInt( 415);
11738: 'IDS_CAP_SETFILESIZE', 'LongInt').SetInt( 416);
11739: 'IDS_CAP_SAVEASPERCENT', 'LongInt').SetInt( 417);
11740: 'IDS_CAP_DRIVER_ERROR', 'LongInt').SetInt( 418);
11741: 'IDS_CAP_WAVE_OPEN_ERROR', 'LongInt').SetInt( 419);
11742: 'IDS_CAP_WAVE_ALLOC_ERROR', 'LongInt').SetInt( 420);
11743: 'IDS_CAP_WAVE_PREPARE_ERROR', 'LongInt').SetInt( 421);
11744: 'IDS_CAP_WAVE_ADD_ERROR', 'LongInt').SetInt( 422);
11745: 'IDS_CAP_WAVE_SIZE_ERROR', 'LongInt').SetInt( 423);
11746: 'IDS_CAP_VIDEO_OPEN_ERROR', 'LongInt').SetInt( 424);
11747: 'IDS_CAP_VIDEO_ALLOC_ERROR', 'LongInt').SetInt( 425);
11748: 'IDS_CAP_VIDEO_PREPARE_ERROR', 'LongInt').SetInt( 426);
11749: 'IDS_CAP_VIDEO_ADD_ERROR', 'LongInt').SetInt( 427);
11750: 'IDS_CAP_VIDEO_SIZE_ERROR', 'LongInt').SetInt( 428);
11751: 'IDS_CAP_FILE_OPEN_ERROR', 'LongInt').SetInt( 429);
11752: 'IDS_CAP_FILE_WRITE_ERROR', 'LongInt').SetInt( 430);
11753: 'IDS_CAP_RECORDING_ERROR', 'LongInt').SetInt( 431);
11754: 'IDS_CAP_RECORDING_ERROR2', 'LongInt').SetInt( 432);
11755: 'IDS_CAP_AVI_INIT_ERROR', 'LongInt').SetInt( 433);
11756: 'IDS_CAP_NO_FRAME_CAP_ERROR', 'LongInt').SetInt( 434);
11757: 'IDS_CAP_NO_PALETTE_WARN', 'LongInt').SetInt( 435);
11758: 'IDS_CAP_MCI_CONTROL_ERROR', 'LongInt').SetInt( 436);
11759: 'IDS_CAP_MCI_CANT_STEP_ERROR', 'LongInt').SetInt( 437);
11760: 'IDS_CAP_NO_AUDIO_CAP_ERROR', 'LongInt').SetInt( 438);
11761: 'IDS_CAP_AVI_DRAWDIB_ERROR', 'LongInt').SetInt( 439);
11762: 'IDS_CAP_COMPRESSOR_ERROR', 'LongInt').SetInt( 440);
11763: 'IDS_CAP_AUDIO_DROP_ERROR', 'LongInt').SetInt( 441);
11764: 'IDS_CAP_STAT_LIVE_MODE', 'LongInt').SetInt( 500);
11765: 'IDS_CAP_STAT_OVERLAY_MODE', 'LongInt').SetInt( 501);
11766: 'IDS_CAP_STAT_CAP_INIT', 'LongInt').SetInt( 502);
11767: 'IDS_CAP_STAT_CAP_FINI', 'LongInt').SetInt( 503);
11768: 'IDS_CAP_STAT_PALETTE_BUILD', 'LongInt').SetInt( 504);
11769: 'IDS_CAP_STAT_OPTPAL_BUILD', 'LongInt').SetInt( 505);
11770: 'IDS_CAP_STAT_I_FRAMES', 'LongInt').SetInt( 506);
11771: 'IDS_CAP_STAT_L_FRAMES', 'LongInt').SetInt( 507);
11772: 'IDS_CAP_STAT_CAP_L_FRAMES', 'LongInt').SetInt( 508);
11773: 'IDS_CAP_STAT_CAP_AUDIO', 'LongInt').SetInt( 509);
11774: 'IDS_CAP_STAT_VIDEOCURRENT', 'LongInt').SetInt( 510);
11775: 'IDS_CAP_STAT_VIDEOAUDIO', 'LongInt').SetInt( 511);
11776: 'IDS_CAP_STAT_VIDEOONLY', 'LongInt').SetInt( 512);
11777: 'IDS_CAP_STAT_FRAMESDROPPED', 'LongInt').SetInt( 513);
11778: 'AVICAP32', 'String').SetString( 'AVICAP32.dll
11779: end;
11780:
11781: procedure SIRegister_ALFcnMisc(CL: TPSPascalCompiler);
11782: begin
11783:   function AlBoolToInt( Value : Boolean) : Integer
11784:   function AlMediumPos( LTotal, LBorder, LObject : integer) : Integer
11785:   function AlIsValidEmail( const Value : AnsiString) : boolean
11786:   function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime) : TDateTime
11787:   function AlInc( var x : integer; Count : integer) : Integer
11788:   function AlCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11789:   function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11790:   procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11791:   function ALIsInteger(const S: AnsiString): Boolean;
11792:   function ALIsDecimal(const S: AnsiString): boolean;
11793:   function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11794:   function ALWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11795:   function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''''): AnsiString;
11796:   function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11797:   function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11798:   function ALRandomStr(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11799:   function ALRandomStr(const aLength: Longint): AnsiString;
11800:   function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11801:   function ALRandomStrU(const aLength: Longint): String;
11802: end;
11803:
11804: procedure SIRegister_ALJSONDoc(CL: TPSPascalCompiler);
11805: begin
11806:   Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const
aTrueStr: AnsiString; const aFalseStr : AnsiString)
11807: end;
11808:
11809: procedure SIRegister_ALWindows(CL: TPSPascalCompiler);
11810: begin

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11811: _ALMEMORYSTATUSEx', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11812: + 'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11813: + 'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11814: + 'ullAvailExtendedVirtual : Int64; end
11815: TALMemoryStatusEx', '_ALMEMORYSTATUSEx
11816: Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEx ) : BOOL
11817: Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11818: 'INVALID_SET_FILE_POINTER', 'LongInt').SetInt( DWORD ( - 1 ));
11819: 'QUOTA_LIMITS_HARDWS_MIN_DISABLE', 'LongWord').SetUInt( $2);
11820: 'QUOTA_LIMITS_HARDWS_MIN_ENABLE', 'LongWord').SetUInt( $1);
11821: 'QUOTA_LIMITS_HARDWS_MAX_DISABLE', 'LongWord').SetUInt( $8);
11822: 'QUOTA_LIMITS_HARDWS_MAX_ENABLE', 'LongWord').SetUInt( $4);
11823: end;
11824:
11825: procedure SIRegister_IPCThrd(CL: TPSPascalCompiler);
11826: begin
11827:   SIRegister_THandledObject(CL);
11828:   SIRegister_TEvent(CL);
11829:   SIRegister_TMutex(CL);
11830:   SIRegister_TSharedMem(CL);
11831:   'TRACE_BUF_SIZE', 'LongInt').SetInt( 200 * 1024);
11832:   'TRACE_BUFFER', 'String').SetString( 'TRACE_BUFFER
11833:   'TRACE_Mutex', 'String').SetString( 'TRACE_Mutex
11834:   //PTraceEntry', '^TTraceEntry // will not work
11835:   SIRegister_TIPCTracer(CL);
11836:   'MAX_CLIENTS', 'LongInt').SetInt( 6);
11837:   'IPCTIMEOUT', 'LongInt').SetInt( 2000);
11838:   'IPCBUFFER_NAME', 'String').SetString( 'BUFFER_NAME
11839:   'BUFFER_Mutex', 'String').SetString( 'BUFFER_Mutex
11840:   'MONITOR_EVENT_NAME', 'String').SetString( 'MONITOR_EVENT
11841:   'CLIENT_EVENT_NAME', 'String').SetString( 'CLIENT_EVENT
11842:   'CONNECT_EVENT_NAME', 'String').SetString( 'CONNECT_EVENT
11843:   'CLIENT_DIR_NAME', 'String').SetString( 'CLIENT_DIRECTORY
11844:   'CLIENT_DIR_Mutex', 'String').SetString( 'DIRECTORY_Mutex
11845:   FindClass('TOBJECT'), 'EMonitorActive
11846:   FindClass('TOBJECT'), 'TIPCThread
11847:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11848:   + 'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11849:   + 'ach, evClientSwitch, evClientSignal, evClientExit )
11850:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11851:   TClientFlags', 'set of TClientFlag
11852:   //PEventData', '^TEventData // will not work
11853:   TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11854:   + 'lag; Flags : TClientFlags; end
11855:   TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11856:   TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11857:   TIPCTNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11858:   //PIPCEventInfo', '^TIPCEventInfo // will not work
11859:   TIPCEventInfo', 'record FID: Integer; FKind: TEventKind; FData: TEventData; end
11860:   SIRegister_TIPCEvent(CL);
11861:   //PClientDirRecords', '^TClientDirRecords // will not work
11862:   SIRegister_TClientDirectory(CL);
11863:   TIPCState', '( stInActive, stDisconnected, stConnected )
11864:   SIRegister_TIPCThread(CL);
11865:   SIRegister_TIPCMonitor(CL);
11866:   SIRegister_TIPCCClient(CL);
11867:   Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11868: end;
11869:
11870: (*-----*)
11871: procedure SIRegister_ALGSMComm(CL: TPSPascalCompiler);
11872: begin
11873:   SIRegister_TALGSMComm(CL);
11874:   Function ALGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString) : AnsiString
11875:   Procedure ALGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
aMessage:AnsiString);
11876:   Function ALGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11877:   Function ALGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
UseGreekAlphabet:Bool):Widestring;
11878:   function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11879: end;
11880:
11881: procedure SIRegister_ALHttpCommon(CL: TPSPascalCompiler);
11882: begin
11883:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11884:   TALHTTPProtocolVersion', '( HTTPPv_1_0, HTTPPv_1_1 )
11885:   TALHTTPMethod', '( HTTPmt_Get,HTTPmt_Post,HTTPmt_Head,HTTPmt_Trace,HTTPmt_Put,HTTPmt_Delete);
11886:   TInternetScheme', 'integer
11887:   TALIPv6Binary', 'array[1..16] of Char;
11888:   // TALIPv6Binary = array[1..16] of ansiChar;
11889:   // TInternetScheme = Integer;
11890:   SIRegister_TALHTTPRequestHeader(CL);
11891:   SIRegister_TALHTTPCookie(CL);
11892:   SIRegister_TALHTTPCookieCollection(CL);
11893:   SIRegister_TALHTTPResponseHeader(CL);
11894:   Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11895:   Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings)
11896:   // Procedure ALExtractHTTPFields(Separators, WhiteSpace, Quotes:TSysCharSet;
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;

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11897: // Procedure ALExtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11898: // Procedure ALExtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11899: Function ALRemoveSchemeFromUrl( aUrl : AnsiString) : ansiString
11900: Function ALExtractSchemeFromUrl( aUrl : AnsiString) : TInternetScheme
11901: Function ALExtractHostNameFromUrl( aUrl : AnsiString) : AnsiString
11902: Function ALExtractDomainNameFromUrl( aUrl : AnsiString) : AnsiString
11903: Function ALExtractUrlPathFromUrl( aUrl : AnsiString) : AnsiString
11904: Function ALInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
ExtraInfo : AnsiString; var PortNumber : integer) : Boolean;
11905: Function ALInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
Anchor : AnsiString; Query : TALStrings; var PortNumber : integer) : Boolean;
11906: Function ALInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11907: Function ALRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString) : AnsiString;
11908: Function ALRemoveAnchorFromUrl1( aUrl : AnsiString) : AnsiString;
11909: Function ALCombineUrl( RelativeUrl, BaseUrl : AnsiString) : AnsiString;
11910: Function ALCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
11911: Function ALGmtDateToRfc822Str( const aValue : TDateTime) : AnsiString
11912: Function ALDateTimeToRfc822Str( const aValue : TDateTime) : AnsiString
11913: Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime) : Boolean
11914: Function ALRfc822StrToGMTDateTime( const s : AnsiString) : TDateTime
11915: Function ALTryIPv4StrToNumeric( aIPv4Str : ansiString; var aIPv4Num : Cardinal) : Boolean
11916: Function ALIPv4StrToNumeric( aIPv4 : ansiString) : Cardinal
11917: Function ALNumericToIPv4Str( aIPv4 : Cardinal) : ansiString
11918: Function ALZeroIPv6 : TALIPv6Binary
11919: Function ALTryIPv6StrToBinary( aIPv6Str : ansiString; var aIPv6Bin : TALIPv6Binary) : Boolean
11920: Function ALIPv6StrToBinary( aIPv6 : ansiString) : TALIPv6Binary
11921: Function ALBinaryToIPv6Str( aIPv6 : TALIPv6Binary) : ansiString
11922: Function ALBinaryStrToIPv6Binary( aIPv6BinaryStr : ansiString) : TALIPv6Binary
11923: end;
11924:
11925: procedure SIRegister_ALFcnHTML(CL: TPSPascalCompiler);
11926: begin
11927:   Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiString;LstExtractedResourceText:TALStrings;const
DecodeHTMLText:Boolean);
11928:   Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11929:   Function ALXMLCDataElementEncode( Src : AnsiString) : AnsiString
11930:   Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
11931:   Function ALUTF8XMLTextElementDecode( const Src : AnsiString) : AnsiString
11932:   Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIHtmlEntities:Bool;const
useNumRef:bool):AnsiString);
11933:   Function ALUTF8HTMLDecode( const Src : AnsiString) : AnsiString
11934:   Function ALJavaScriptEncode( const Src : AnsiString; const useNumericReference : boolean) : AnsiString
11935:   Function ALUTF8JavaScriptDecode( const Src : AnsiString) : AnsiString
11936:   Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
11937:   Procedure ALCompactHtmTagParams( TagParams : TALStrings)
11938: end;
11939:
11940: procedure SIRegister_ALInternetMessageCommon(CL: TPSPascalCompiler);
11941: begin
11942:   SIRegister_TALEmailHeader(CL);
11943:   SIRegister_TALNewsArticleHeader(CL);
11944:   Function ALParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
decodeRealName:Bool):AnsiString;
11945:   Function ALExtractEmailAddress( FriendlyEmail : AnsiString) : AnsiString
11946:   Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString) : AnsiString
11947:   Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString) : AnsiString
11948:   Function ALGenerateInternetMessageID : AnsiString;
11949:   Function ALGenerateInternetMessageID1( ahostname : AnsiString) : AnsiString;
11950:   Function ALDecodeQuotedPrintableString( src : AnsiString) : AnsiString
11951:   Function ALDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
11952: end;
11953:
11954: (*-----*)
11955: procedure SIRegister_ALFcnWinSock(CL: TPSPascalCompiler);
11956: begin
11957:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11958:   Function ALIPAddrToName( IPAddr : AnsiString) : AnsiString
11959:   Function ALgetLocalIPs : TALStrings
11960:   Function ALgetLocalHostName : AnsiString
11961: end;
11962:
11963: procedure SIRegister_ALFcnCGI(CL: TPSPascalCompiler);
11964: begin
11965:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
TALWebRequest;ServerVariables:TALStrings);
11966:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables :
TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11967:   Procedure ALCGIInitDefaultServerVariables( ServerVariables : TALStrings);
11968:   Procedure ALCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
ScriptFileName:AnsiString;Url:AnsiString);
11969:   Procedure ALCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11970:   Procedure ALCGIExec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
: Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
11971:   Procedure ALCGIExec1(ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
WebRequest : TALIsapiRequest;
overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;

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11972:  + 'overloadedRequestContentStream:Tstream;var
ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
11973:  Procedure ALCGIExec2(ScriptName,ScriptFileName,Url,X_REWRITE_URL,
InterpreterFilename:AnsiString;WebRequest: TALIsapiRequest; var ResponseContentString : AnsiString;
ResponseHeader : TALHTTPResponseHeader);
11974: end;
11975:
11976: procedure SIRegister_ALFcnExecute(CL: TPSPascalCompiler);
11977: begin
11978:   TStartupInfoA, 'TStartupInfo
11979:   'SE_CREATE_TOKEN_NAME','String').SetString( 'SeCreateTokenPrivilege
11980: SE_ASSIGNPRIMARYTOKEN_NAME','String').SetString( 'SeAssignPrimaryTokenPrivilege
11981: SE_LOCK_MEMORY_NAME','String').SetString( 'SeLockMemoryPrivilege
11982: SE_INCREASE_QUOTA_NAME','String').SetString( 'SeIncreaseQuotaPrivilege
11983: SE_UNSOLICITED_INPUT_NAME','String').SetString( 'SeUnsolicitedInputPrivilege
11984: SE_MACHINE_ACCOUNT_NAME','String').SetString( 'SeMachineAccountPrivilege
11985: SE_TCB_NAME','String').SetString( 'SeTcbPrivilege
11986: SE_SECURITY_NAME','String').SetString( 'SeSecurityPrivilege
11987: SE_TAKE_OWNERSHIP_NAME','String').SetString( 'SeTakeOwnershipPrivilege
11988: SE_LOAD_DRIVER_NAME','String').SetString( 'SeLoadDriverPrivilege
11989: SE_SYSTEM_PROFILE_NAME','String').SetString( 'SeSystemProfilePrivilege
11990: SE_SYSTEMTIME_NAME','String').SetString( 'SeSystemtimePrivilege
11991: SE_PROF_SINGLE_PROCESS_NAME','String').SetString( 'SeProfileSingleProcessPrivilege
11992: SE_INC_BASE_PRIORITY_NAME','String').SetString( 'SeIncreaseBasePriorityPrivilege
11993: SE_CREATE_PAGEFILE_NAME','String').SetString( 'SeCreatePagefilePrivilege
11994: SE_CREATE_PERMANENT_NAME','String').SetString( 'SeCreatePermanentPrivilege
11995: SE_BACKUP_NAME','String').SetString( 'SeBackupPrivilege
11996: SE_RESTORE_NAME','String').SetString( 'SeRestorePrivilege
11997: SE_SHUTDOWN_NAME','String').SetString( 'SeShutdownPrivilege
11998: SE_DEBUG_NAME','String').SetString( 'SeDebugPrivilege
11999: SE_AUDIT_NAME','String').SetString( 'SeAuditPrivilege
12000: SE_SYSTEM_ENVIRONMENT_NAME','String').SetString( 'SeSystemEnvironmentPrivilege
12001: SE_CHANGE_NOTIFY_NAME','String').SetString( 'SeChangeNotifyPrivilege
12002: SE_REMOTE_SHUTDOWN_NAME','String').SetString( 'SeRemoteShutdownPrivilege
12003: SE_UNDOCK_NAME','String').SetString( 'SeUndockPrivilege
12004: SE_SYNC_AGENT_NAME','String').SetString( 'SeSyncAgentPrivilege
12005: SE_ENABLE_DELEGATION_NAME','String').SetString( 'SeEnableDelegationPrivilege
12006: SE_MANAGE_VOLUME_NAME','String').SetString( 'SeManageVolumePrivilege
12007: Function ALGetEnvironmentString : AnsiString
12008: Function ALWinExec32(const FileName,CurrentDir,
Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
12009: Function ALWinExec32l(const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
12010: Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer) : DWORD
12011: Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer) : DWORD
12012: Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean) : Boolean
12013: end;
12014:
12015: procedure SIRegister_ALFcnFile(CL: TPSPascalCompiler);
12016: begin
12017:   Function ALEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime):Boolean;
12018:   Function ALEmptyDirectoryl( Directory : ansiString; SubDirectory : Boolean; const
RemoveEmptySubDirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime) : Boolean;
12019:   Function ALCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
FileNameMask : ansiString; const FailIfExists : Boolean) : Boolean
12020:   Function ALGetModuleName : ansistring
12021:   Function ALGetModuleFileNameWithoutExtension : ansistring
12022:   Function ALGetModulePath : ansiString
12023:   Function ALGetFileSize( const AFileName : ansistring) : int64
12024:   Function ALGetFileVersion( const AFileName : ansistring) : ansiString
12025:   Function ALGetFileCreationDateTime( const aFileName : Ansistring) : TDateTime
12026:   Function ALGetFileLastWriteDateTime( const aFileName : Ansistring) : TDateTime
12027:   Function ALGetFileLastAccessDateTime( const aFileName : Ansistring) : TDateTime
12028:   Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime)
12029:   Function ALIsDirectoryEmpty( const directory : ansiString) : boolean
12030:   Function ALFileExists( const Path : ansiString) : boolean
12031:   Function ALDirectoryExists( const Directory : Ansistring) : Boolean
12032:   Function ALCreateDir( const Dir : Ansistring) : Boolean
12033:   Function ALRemoveDir( const Dir : Ansistring) : Boolean
12034:   Function ALDeleteFile( const FileName : Ansistring) : Boolean
12035:   Function ALRenameFile( const OldName, NewName : ansistring) : Boolean
12036: end;
12037:
12038: procedure SIRegister_ALFcnMime(CL: TPSPascalCompiler);
12039: begin
12040:   NativeInt', 'Integer
12041:   NativeUInt', 'Cardinal
12042:   Function ALMimeBase64EncodeString( const S : AnsiString) : AnsiString
12043:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString) : AnsiString
12044:   Function ALMimeBase64DecodeString( const S : AnsiString) : AnsiString
12045:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt) : NativeInt
12046:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt) : NativeInt
12047:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt) : NativeInt
12048:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12049:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12050:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)

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12051: Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt;
12052: Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt;
12053: + var ByteBuffer : Cardinal; var ByteBufferSize : Cardinal) : NativeInt;
12054: Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
ByteBuffer : Cardinal; const ByteBufferSize : Cardinal) : NativeInt;
12055: Procedure ALMimeBase64Encode(const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
OutputBuf:TByteDynArray);
12056: Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12057: Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12058: Function ALMimeBase64Decode1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray):NativeInt;
12059: Function ALMimeBase64DecodePartial1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSize : Cardinal) : NativeInt;
12060: Function ALMimeBase64DecodePartialEnd1(out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
ByteBufferSpace:Cardinal):NativeInt;
12061: Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName)
12062: Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName)
12063: Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName)
12064: Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream)
12065: Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream)
12066: Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream)
12067: 'cALMimeBase64_ENCODED_LINE_BREAK','LongInt').SetInt( 76);
12068: 'cALMimeBase64_DECODED_LINE_BREAK','LongInt').SetInt( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3);
12069: 'cALMimeBase64_BUFFER_SIZE','LongInt').SetInt( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4);
12070: Procedure ALFillMimeContentTypeByExtList( AMIMEList : TALStrings)
12071: Procedure ALFillExtByMimeContentTypeList( AMIMEList : TALStrings)
12072: Function ALGetDefaultFileExtFromMimeContentType( aContentType : AnsiString) : AnsiString
12073: Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString) : AnsiString
12074: end;
12075:
12076: procedure SIRegister_ALXmlDoc(CL: TPSPascalCompiler);
12077: begin
12078: 'cALXMLNodeMaxListSize','LongInt').SetInt( Maxint div 16);
12079: FindClass('TOBJECT'),'TALXMLNode
12080: FindClass('TOBJECT'),'TALXMLNodeList
12081: FindClass('TOBJECT'),'TALXMLDocument
12082: TALXMLParseProcessingInstructionEvent', 'Procedure (Sender:TObject; const Target,Data:AnsiString)
12083: TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str: AnsiString)
12084: TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co
12085: + 'nt Name : AnsiString; const Attributes : TALStrings)
12086: TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString)
12087: TALXmlNodeType', '( ntReserved, ntElement, ntAttribute, ntText, '
12088: + 'ntCDATA, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12089: + 'ntDocType, ntDocFragment, ntNotation )
12090: TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12091: TALXMLDocOptions', 'set of TALXMLDocOption
12092: TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12093: TALXMLParseOptions', 'set of TALXMLParseOption
12094: TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12095: PALPointerXMLNodeList', '^TALPointerXMLNodeList // will not work
12096: SIRegister_EALXMLDocError(CL);
12097: SIRegister_TALXMLNodeList(CL);
12098: SIRegister_TALXMLNode(CL);
12099: SIRegister_TALXmlElementNode(CL);
12100: SIRegister_TALXmlAttributeNode(CL);
12101: SIRegister_TALXmlTextNode(CL);
12102: SIRegister_TALXmlDocumentNode(CL);
12103: SIRegister_TALXmlCommentNode(CL);
12104: SIRegister_TALXmlProcessingInstrNode(CL);
12105: SIRegister_TALXmlCDATANode(CL);
12106: SIRegister_TALXmlEntityRefNode(CL);
12107: SIRegister_TALXmlEntityNode(CL);
12108: SIRegister_TALXmlDocTypeNode(CL);
12109: SIRegister_TALXmlDocFragmentNode(CL);
12110: SIRegister_TALXmlNotationNode(CL);
12111: SIRegister_TALXMLDocument(CL);
12112: cALXMLUTF8EncodingStr, 'String').SetString( 'UTF-8
12113: cALXMLUTF8HeaderStr, 'String').SetString('<?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>'+#13#10);
12114: CALNSDelim, 'String').SetString( '
12115: CALXML, 'String').SetString( 'xml
12116: CALVersion, 'String').SetString( 'version
12117: CALEncoding, 'String').SetString( 'encoding
12118: CALStandalone, 'String').SetString( 'standalone
12119: CALDefaultNodeIndent, 'String').SetString( '
12120: CALXmlDocument', 'String').SetString( 'DOCUMENT
12121: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString) : TalXMLDocument
12122: Procedure ALClearXMLDocument(const rootname:AnsiString;xmlDoc:TalXMLDocument;const
EncodingStr:AnsiString);
12123: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildNodeName,
ChildNodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12124: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
ChildNodeName, ChildNodeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12125: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
Recurse: Boolean):TalxmlNode
12126: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
AttributeName, AttributeValue : AnsiString; const Recurse : Boolean) : TalxmlNode

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12127: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString) :
      AnsiString
12128: end;
12129:
12130: procedure SIRegister_TeCanvas(CL: TPSPascalCompiler);
12131: //based on TEEProc, TeCanvas, TEEEngine, TChart
12132: begin
12133:   'TeePiStep','Double').setExtended( Pi / 180.0);
12134:   'TeeDefaultPerspective','LongInt').SetInt( 100);
12135:   'TeeMinAngle','LongInt').SetInt( 270);
12136:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12137:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ));
12138:   'teeclCream','LongWord').SetUInt( TColor ( $F0FBFF ));
12139:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ));
12140:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12141:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ));
12142:   'teeclCream','LongWord').SetUInt( TColor ( $F0FBFF ));
12143:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ));
12144:   'TA_LEFT','LongInt').SetInt( 0);
12145:   'TA_RIGHT','LongInt').SetInt( 2);
12146:   'TA_CENTER','LongInt').SetInt( 6);
12147:   'TA_TOP','LongInt').SetInt( 0);
12148:   'TA_BOTTOM','LongInt').SetInt( 8);
12149:   'teePATCOPY','LongInt').SetInt( 0);
12150:   'NumCirclePoints','LongInt').SetInt( 64);
12151:   'teeDEFAULT_CHARSET','LongInt').SetInt( 1);
12152:   'teeANTIALIASED_QUALITY','LongInt').SetInt( 4);
12153:   'TA_LEFT','LongInt').SetInt( 0);
12154:   'bs_Solid','LongInt').SetInt( 0);
12155:   'teepf24Bit','LongInt').SetInt( 0);
12156:   'teepfDevice','LongInt').SetInt( 1);
12157:   'CM_MOUSELEAVE','LongInt').SetInt( 10000);
12158:   'CM_SYSCOLORCHANGE','LongInt').SetInt( 10001);
12159:   'DC_BRUSH','LongInt').SetInt( 18);
12160:   'DC_PEN','LongInt').SetInt( 19);
12161:   teeCOLORREF, 'LongWord
12162:   TLogBrush', record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12163:   //TNotifyEvent', 'Procedure ( Sender : TObject)
12164:   SIRegister_TFilterRegion(CL);
12165:   SIRegister_IFormCreator(CL);
12166:   SIRegister_TTeeFilter(CL);
12167:   //TFilterClass', 'class of TTeeFilter
12168:   SIRegister_TFilterItems(CL);
12169:   SIRegister_TConvolveFilter(CL);
12170:   SIRegister_TBlurFilter(CL);
12171:   SIRegister_TTeePicture(CL);
12172:   TPenEndStyle', ( esRound, esSquare, esFlat )
12173:   SIRegister_TChartPen(CL);
12174:   SIRegister_TChartHiddenPen(CL);
12175:   SIRegister_TDottedGrayPen(CL);
12176:   SIRegister_TDarkGrayPen(CL);
12177:   SIRegister_TWhitePen(CL);
12178:   SIRegister_TChartBrush(CL);
12179:   TTeeView3DScrolled', Procedure ( IsHoriz : Boolean)
12180:   TTeeView3DChangedZoom', Procedure ( NewZoom : Integer)
12181:   SIRegister_TView3DOptions(CL);
12182:   FindClass('TOBJECT'),'TTeeCanvas
12183:   TTeeTransparency', Integer
12184:   SIRegister_TTeeBlend(CL);
12185:   FindClass('TOBJECT'),'TCanvas3D
12186:   SIRegister_TTeeShadow(CL);
12187:   teeTGradientDirection', ( gdTopBottom, gdBottomTop, gdLeftRight, g'
12188:   + 'dRightLeft, gdFromCenter, gdFromTopLeft, gdFromBottomLeft, gdRadial, gdDiagonalUp, gdDiagonalDown )
12189:   FindClass('TOBJECT'),'TSubGradient
12190:   SIRegister_TCustomTeeGradient(CL);
12191:   SIRegister_TSubGradient(CL);
12192:   SIRegister_TTeeGradient(CL);
12193:   SIRegister_TTeeFontGradient(CL);
12194:   SIRegister_TTeeFont(CL);
12195:   TCanvasBackMode', ( cbmNone, cbmTransparent, cbmOpaque )
12196:   TCanvasTextAlign', Integer
12197:   TTeeCanvasHandle', HDC
12198:   SIRegister_TTeeCanvas(CL);
12199:   TPoint3DFloat', record X : Double; Y : Double; Z : Double; end
12200:   SIRegister_TFloatXYZ(CL);
12201:   TPoint3D', record x : integer; y : integer; z : Integer; end
12202:   TRGB', record blue: byte; green: byte; red: byte; end
12203:   {TRGB=packed record
12204:     Blue : Byte;
12205:     Green : Byte;
12206:     Red : Byte;
12207:   //IFDEF CLX //Alpha : Byte; // Linux end;}
12208:
12209:   TTeeCanvasCalcPoints', Function ( x, z : Integer; var P0, P1 : '
12210:     + 'TPoint3D; var Color0, Color1 : TColor) : Boolean
12211:   TTeeCanvasSurfaceStyle', ( tcsSolid, tcsWire, tcsDot )
12212:   TCanvas3DPlane', ( cpX, cpY, cpZ )
12213:   //IInterface', 'Unknown
12214:   SIRegister_TCanvas3D(CL);

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12215: SIRegister_TTeeCanvas3D(CL);
12216: TTrianglePoints', 'Array[0..2] of TPoint;
12217: TFourPoints', 'Array[0..3] of TPoint;
12218: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12219: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12220: Function Point3D( const x, y, z : Integer) : TPoint3D
12221: Procedure SwapDouble( var a, b : Double)
12222: Procedure SwapInteger( var a, b : Integer)
12223: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12224: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12225: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer) : TRect
12226: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12227: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12228: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12229: Procedure UnClipCanvas( ACanvas : TCanvas)
12230: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12231: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12232: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12233: 'TeeCharForHeight','String').SetString( 'W
12234: 'DarkerColorQuantity','Byte').SetUInt( 128);
12235: 'DarkColorQuantity','Byte').SetUInt( 64);
12236: TButtonGetColorProc', 'Function : TColor
12237: SIRegister_TTeeButton(CL);
12238: SIRegister_TButtonColor(CL);
12239: SIRegister_TComboFlat(CL);
12240: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTeeCanvasHandle)
12241: Function TeePoint( const aX, aY : Integer) : TPoint
12242: Function TEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12243: Function PointInRect1( const Rect : TRect; x, y : Integer) : Boolean;
12244: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12245: Function OrientRectangle( const R : TRect) : TRect
12246: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12247: Function PolygonBounds( const P : array of TPoint) : TRect
12248: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12249: Function RGBValue( const Color : TColor) : TRGB
12250: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12251: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12252: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer) : TPoint
12253: Function TeeCull( const P : TFourPoints) : Boolean;
12254: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12255: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12256: Procedure SmoothStretch( Src, Dst : TBitmap);
12257: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12258: Function TeeDistance( const x, y : Double) : Double
12259: Function TeeLoadLibrary( const FileName : String) : HInst
12260: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12261: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12262: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap)
12263: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12264: SIRegister_ICanvasHyperlinks(CL);
12265: SIRegister_ICanvasToolTips(CL);
12266: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12267: end;
12268:
12269: procedure SIRegister_ovcmisc(CL: TPSPascalCompiler);
12270: begin
12271:   TOvcHdc', 'Integer
12272:   TOvcHWND', 'Cardinal
12273:   TOvcHdc', 'HDC
12274:   TOvcHWND', 'HWND
12275:   Function LoadBaseBitmap( lpBitmapName : PChar) : HBITMAP
12276:   Function LoadBaseCursor( lpCursorName : PChar) : HCURSOR
12277:   Function ovCompStruct( const S1, S2, Size : Cardinal) : Integer
12278:   Function DefaultEpoch : Integer
12279:   Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12280:   Procedure FixRealPrim( P : PChar; DC : Char)
12281:   Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer) : string
12282:   Function GetLeftButton : Byte
12283:   Function GetNextDlgItem( Ctrl : TOvcHwnd) : hWnd
12284:   Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte)
12285:   Function GetShiftFlags : Byte
12286:   Function ovCreateRotatedFont( F : TFont; Angle : Integer) : hFont
12287:   Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle; Height:Integer;Ctl3D:Boolean): Integer
12288:   Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet) : string
12289:   Function ovIsForegroundTask : Boolean
12290:   Function ovTrimLeft( const S : string) : string
12291:   Function ovTrimRight( const S : string) : string
12292:   Function ovQuotedStr( const S : string) : string
12293:   Function ovWordCount( const S : string; const WordDelims : TCharSet) : Integer
12294:   Function ovWordPosition(const N:Integer;const S : string;const WordDelims : TCharSet) : Integer
12295:   Function PtrDiff( const P1, P2 : PChar) : Word
12296:   Procedure PtrInc( var P, Delta : Word)
12297:   Procedure PtrDec( var P, Delta : Word)
12298:   Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer)
12299:   Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer)
12300:   Function ovMinI( X, Y : Integer) : Integer
12301:   Function ovMaxI( X, Y : Integer) : Integer

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12302: Function ovMinL( X, Y : LongInt) : LongInt
12303: Function ovMaxL( X, Y : LongInt) : LongInt
12304: Function GenerateComponentName( PF : TwinControl; const Root : string) : string
12305: Function PartialCompare( const S1, S2 : string) : Boolean
12306: Function PathEllipsis( const S : string; MaxWidth : Integer) : string
12307: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor) : TBitmap
12308: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas)
12309: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
TransparentColor : TColor)
12310: Procedure DrawTransparentBitmapPrim(DC:TovcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
TransparentColor : TColorRef)
12311: Function ovWidthOf( const R : TRect) : Integer
12312: Function ovHeightOf( const R : TRect) : Integer
12313: Procedure ovDebugOutput( const S : string)
12314: Function GetArrowWidth( Width, Height : Integer) : Integer
12315: Procedure StripCharSeq( CharSeq : string; var Str : string)
12316: Procedure StripCharFromEnd( aChr : Char; var Str : string)
12317: Procedure StripCharFromFront( aChr : Char; var Str : string)
12318: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT) : BOOL
12319: Function SystemParametersInfoNC(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12320: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT) : BOOL
12321: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer) : HRGN
12322: Function CreateEllipticRgnIndirect( const p1 : TRect) : HRGN
12323: Function CreateFontIndirect( const p1 : TLogFont) : HFONT
12324: Function CreateMetaFile( p1 : PChar) : HDC
12325: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12326: Function DrawText(hDC:HDC;lpString:PChar;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12327: Function DrawTextS(hDC:HDC;lpString:string;nCount:Integer; var lpRect:TRect;uFormat:UINT):Integer
12328: Function SetMapperFlags( DC : HDC; Flag : DWORD) : DWORD
12329: Function SetGraphicsMode( hdc : HDC; iMode : Integer) : Integer
12330: Function SetMapMode( DC : HDC; p2 : Integer) : Integer
12331: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar) : HMETAFILE
12332: //Function SetPaletteEntries(Palette:HPALETTE;StartIndex,NumEntries:UINT;var PaletteEntries):UINT
12333: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF) : COLORREF
12334: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF) : BOOL
12335: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor) : BOOL
12336: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer) : Integer
12337: Function StretchBlt(DestDC:HDC;X,Y,Width,Height:Int;SrcDC:HDC;XSrc,YSrc,SrcWidth,
SrcHeight:Int;Rop:DWORD):BOOL
12338: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer) : BOOL
12339: Function StretchDIBits(DC : HDC; DestX, DestY, DestWidth, DestHeight, SrcX, SrcY, SrcWidth,
SrcHeight:Int;Bits:int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : DWORD) : Integer
12340: Function SetROP2( DC : HDC; p2 : Integer) : Integer
12341: Function SetStretchBltMode( DC : HDC; StretchMode : Integer) : Integer
12342: Function SetSystemPaletteUse( DC : HDC; p2 : UINT) : UINT
12343: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer) : Integer
12344: Function SetTextColor( DC : HDC; Color : COLORREF) : COLORREF
12345: Function SetTextAlign( DC : HDC; Flags : UINT) : UINT
12346: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer) : Integer
12347: Function UpdateColors( DC : HDC) : BOOL
12348: Function GetViewportExtEx( DC : HDC; var Size : TSize) : BOOL
12349: Function GetViewportOrgEx( DC : HDC; var Point : TPoint) : BOOL
12350: Function GetWindowExtEx( DC : HDC; var Size : TSize) : BOOL
12351: Function GetWindowOrgEx( DC : HDC; var Point : TPoint) : BOOL
12352: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer) : Integer
12353: Function InvertRgn( DC : HDC; p2 : HRGN) : BOOL
12354: Function MaskBlt( DestDC : HDC; XDest, YDest, Width, Height : Integer; SrcDC : HDC; XSrc, YSrc : Integer;
Mask : HBITMAP; xMask, yMask : Integer; Rop : DWORD) : BOOL
12355: Function PlgBlt(DestDC:HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,
yMask:Int):BOOL;
12356: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer) : Integer
12357: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer) : Integer
12358: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD) : BOOL
12359: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer) : BOOL
12360: Function PlayMetaFile( DC : HDC; MF : HMETAFILE) : BOOL
12361: Function PaintRgn( DC : HDC; RGN : HRGN) : BOOL
12362: Function PtInRegion( RGN : HRGN; X, Y : Integer) : BOOL
12363: Function PtVisible( DC : HDC; X, Y : Integer) : BOOL
12364: Function RectInRegion( RGN : HRGN; const Rect : TRect) : BOOL
12365: Function RectVisible( DC : HDC; const Rect : TRect) : BOOL
12366: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer) : BOOL
12367: Function RestoreDC( DC : HDC; SavedDC : Integer) : BOOL
12368: end;
12369:
12370: procedure SIRegister_ovcfile(CL: TPSPascalCompiler);
12371: begin
12372:   SIRegister_TovcAbstractStore(CL);
12373:   //PEXPropInfo, '^TExPropInfo // will not work
12374:   // TExPropInfo, 'record PI : TPropInfo; AObject : TObject; end
12375:   SIRegister_TovcPropertyList(CL);
12376:   SIRegister_TovcDataFiler(CL);
12377: Procedure UpdateStoredList( AForm : TwinControl; AStoredList : TStrings; FromForm : Boolean)
12378: Procedure UpdateStoredList1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean)
12379: Function CreateStoredItem( const CompName, PropName : string) : string
12380: Function ParseStoredItem( const Item : string; var CompName, PropName : string) : Boolean
12381: //Function GetPropType( PropInfo : PExPropInfo) : PTypeInfo
12382: end;
12383:
12384: procedure SIRegister_ovccoco(CL: TPSPascalCompiler);

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12385: begin
12386:   'ovsetsize','LongInt').SetInt( 16);
12387:   'etSyntax','LongInt').SetInt( 0);
12388:   'etSymantic','LongInt').SetInt( 1);
12389:   'chCR','Char').SetString( #13);
12390:   'chLF','Char').SetString( #10);
12391:   'chLineSeparator','').SetString( chCR);
12392:   SIRegister_TCocoError(CL);
12393:   SIRegister_TCommentItem(CL);
12394:   SIRegister_TCommentList(CL);
12395:   SIRegister_TSymbolPosition(CL);
12396: TGenListType', '( glNever, glAlways, glOnError )
12397: TovBitSet', 'set of Integer
12398:   //PStartTable', '^TStartTable // will not work
12399: 'TovCharSet', 'set of AnsiChar
12400: TAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12401: TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList)
12402: TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12403: TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12404: TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP
12405:   +osition; const Data : string; ErrorType : integer)
12406: TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12407: TGetCH', 'Function ( pos : longint) : char
12408: TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12409:   SIRegister_TCocoRScanner(CL);
12410:   SIRegister_TCocoRGrammar(CL);
12411:   '_EF','Char').SetString( #0);
12412:   '_TAB','Char').SetString( #09);
12413:   '_CR','Char').SetString( #13);
12414:   '_LF','Char').SetString( #10);
12415:   '_EL','').SetString( _CR);
12416:   '_EOF','Char').SetString( #26);
12417:   'LineEnds','TCharSet').SetInt(ord(_CR) or ord(_LF) or ord(_EF));
12418:   'minErrDist','LongInt').SetInt( 2);
12419:   Function ovPadL( S : string; ch : char; L : integer) : string
12420: end;
12421:
12422:   TFormatSettings = record
12423:     CurrencyFormat: Byte;
12424:     NegCurrFormat: Byte;
12425:     ThousandSeparator: Char;
12426:     DecimalSeparator: Char;
12427:     CurrencyDecimals: Byte;
12428:     DateSeparator: Char;
12429:     TimeSeparator: Char;
12430:     ListSeparator: Char;
12431:     CurrencyString: string;
12432:     ShortDateFormat: string;
12433:     LongDateFormat: string;
12434:     TimeAMString: string;
12435:     TimePMString: string;
12436:     ShortTimeFormat: string;
12437:     LongTimeFormat: string;
12438:     ShortMonthNames: array[1..12] of string;
12439:     LongMonthNames: array[1..12] of string;
12440:     ShortDayNames: array[1..7] of string;
12441:     LongDayNames: array[1..7] of string;
12442:     TwoDigitYearCenturyWindow: Word;
12443:   end;
12444:
12445: procedure SIRegister_OvcFormatSettings(CL: TPSPascalCompiler);
12446: begin
12447:   Function ovFormatSettings : TFormatSettings
12448: end;
12449:
12450: procedure SIRegister_ovcstr(CL: TPSPascalCompiler);
12451: begin
12452:   TOvcCharSet', 'set of Char
12453:   ovBTable', 'array[0..255] of Byte
12454:   //BTable = array[0..{$IFDEF UNICODE}{$IFDEF
HUGE_UNICODE_BMTABLE}$FFFF{$ELSE}$FF{$ENDIF}{$ELSE}$FF{$ENDIF}] of Byte;
12455:   Function BinaryBPChar( Dest : PChar; B : Byte) : PChar
12456:   Function BinaryLPChar( Dest : PChar; L : LongInt) : PChar
12457:   Function BinaryWPChar( Dest : PChar; W : Word) : PChar
12458:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable)
12459:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;
12460:   Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12461:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal) : PChar
12462:   Function DetabPChar( Dest : PChar; Src : PChar; TabSize : Byte) : PChar
12463:   Function HexBPChar( Dest : PChar; B : Byte) : PChar
12464:   Function HexLPChar( Dest : PChar; L : LongInt) : PChar
12465:   Function HexPtrPChar( Dest : PChar; P : TObject) : PChar
12466:   Function HexWPChar( Dest : PChar; W : Word) : PChar
12467:   Function LoCaseChar( C : Char) : Char
12468:   Function OctallLPChar( Dest : PChar; L : LongInt) : PChar
12469:   Function StrChDeletePrim( P : PChar; Pos : Cardinal) : PChar
12470:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal) : PChar
12471:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal) : Boolean
12472:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word)

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12473: Function StrStCopy( Dest, S : PChar; Pos, Count : Cardinal) : PChar
12474: Function StrStDeletePrim( P : PChar; Pos, Count : Cardinal) : PChar
12475: Function StrStInsert( Dest, S1, S2 : PChar; Pos : Cardinal) : PChar
12476: Function StrStInsertPrim( Dest, S : PChar; Pos : Cardinal) : PChar
12477: Function StrStPos( P, S : PChar; var Pos : Cardinal) : Boolean
12478: Function StrToLongPChar( S : PChar; var I : LongInt) : Boolean
12479: Procedure TrimAllSpacesPChar( P : PChar)
12480: Function TrimEmbeddedZeros( const S : string) : string
12481: Procedure TrimEmbeddedZerosPChar( P : PChar)
12482: Function TrimTrailPrimPChar( S : PChar) : PChar
12483: Function TrimTrailPChar( Dest, S : PChar) : PChar
12484: Function TrimTrailingZeros( const S : string) : string
12485: Procedure TrimTrailingZerosPChar( P : PChar)
12486: Function UpCaseChar( C : Char) : Char
12487: Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet) : Boolean
12488: Function ovc32StringIsCurrentCodePage( const S : WideString) : Boolean;
12489: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal) : Boolean;
12490: end;
12491:
12492: procedure SIRegister_AfUtils(CL: TPSPascalCompiler);
12493: begin
12494:   //PraiseFrame, '^TRaiseFrame // will not work
12495:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12496:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12497:   Procedure SafeCloseHandle( var Handle : THandle)
12498:   Procedure ExchangeInteger( X1, X2 : Integer)
12499:   Procedure FillInteger( const Buffer, Size, Value : Integer)
12500:   Function LongMulDiv( Mult1, Mult2, Div1 : Longint) : Longint
12501:   Function afCompareMem( P1, P2 : TObject; Length : Integer) : Boolean
12502:
12503: FILENAME_ADVAPI32 = 'ADVAPI32.DLL';
12504:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12505:   function AbortSystemShutdown(lpMachineName: PKOLChar): BOOL; stdcall;
12506:   function AccessCheckAndAuditAlarm(SubsystemName: PKOLChar;
12507:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLChar;
12508:   SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12509:   const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12510:   var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12511:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLChar;
12512:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLChar;
12513:   SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12514:   AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12515:   ObjectTypeNameLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12516:   var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12517:   function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLChar;
12518:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLChar;
12519:   SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12520:   AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12521:   ObjectTypeNameLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12522:   var GrantedAccess: DWORD; var AccessStatusList: DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12523:   function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLChar): BOOL; stdcall;
12524:   function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLChar): BOOL; stdcall;
12525:   function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLChar;
12526:   lpCommandLine: PKOLChar; lpProcessAttributes: PSecurityAttributes;
12527:   lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12528:   dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLChar;
12529:   const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12530:   function GetCurrentHwProfile(var lpHwProfileInfo: THWPProfileInfo): BOOL; stdcall;
12531:   function GetFileSecurity(lpFileName: PKOLChar; RequestedInformation: SECURITY_INFORMATION;
12532:   pSecurityDescriptor: PSecurityDescriptor; nLength: DWORD; var lpnLengthNeeded: DWORD): BOOL; stdcall;
12533:   function GetUserName(lpBuffer: PKOLChar; var nSize: DWORD): BOOL; stdcall;
12534:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLChar;
12535:   dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12536:   function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLChar;
12537:   dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12538:   function LookupAccountName(lpSystemName, lpAccountName: PKOLChar;
12539:   Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLChar;
12540:   var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12541:   function LookupAccountSid(lpSystemName: PKOLChar; Sid: PSID;
12542:   Name: PKOLChar; var cbName: DWORD; ReferencedDomainName: PKOLChar;
12543:   var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12544:   function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLChar;
12545:   lpDisplayName: PKOLChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12546:   function LookupPrivilegeName(lpSystemName: PKOLChar;
12547:   var lpLuid: TLargeInteger; lpName: PKOLChar; var cbName: DWORD): BOOL; stdcall;
12548:   function LookupPrivilegeValue(lpSystemName, lpName: PKOLChar;
12549:   var lpLuid: TLargeInteger): BOOL; stdcall;
12550:   function ObjectCloseAuditAlarm(SubsystemName: PKOLChar;
12551:   HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12552:   function ObjectDeleteAuditAlarm(SubsystemName: PKOLChar;
12553:   HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12554:   function ObjectOpenAuditAlarm(SubsystemName: PKOLChar; HandleId: Pointer;
12555:   ObjectTypeName: PKOLChar; ObjectName: PKOLChar; pSecurityDescriptor: PSecurityDescriptor;
12556:   ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12557:   var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12558:   var GenerateOnClose: BOOL): BOOL; stdcall;
12559:   function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLChar;
12560:   HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12561:   var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;

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12562: function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12563: function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12564: function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLChar;
12565: ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12566: function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12567: lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12568: var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD): BOOL; stdcall;
12569: function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12570: var phkResult: HKEY): Longint; stdcall;
12571: function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12572: var phkResult: HKEY): Longint; stdcall;
12573: function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12574: Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12575: lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12576: lpdwDisposition: PDWORD): Longint; stdcall;
12577: function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12578: function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12579: function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12580: var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12581: lpcbClass: PDWORD; lpftLastWriteTime: PFileTime): Longint; stdcall;
12582: function RegEnumKey(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar; cbName: DWORD): Longint; stdcall;
12583: function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12584: var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12585: lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12586: function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12587: function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12588: function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12589: ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12590: function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12591: lpcbClass: PDWORD; lpReserved: Pointer;
12592: lpSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpValues,
12593: lpcbMaxValueNameLen, lpcbMaxValueLen, lpcbSecurityDescriptor: PDWORD;
12594: lpftLastWriteTime: PFileTime): Longint; stdcall;
12595: function RegQueryMultipleValues(hKey: HKEY; var ValList;
12596: NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotSize: DWORD): Longint; stdcall;
12597: function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12598: lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12599: function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12600: lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12601: function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12602: lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12603: function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12604: function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12605: lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12606: function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12607: dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12608: function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12609: Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12610: function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12611: function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12612: function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12613: dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12614: dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12615: function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12616: pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12617:
12618: Function wAddAtom( lpString : PKOLChar ) : ATOM
12619: Function wBeginUpdateResource( pFileName : PKOLChar; bDeleteExistingResources : BOOL ) : THandle
12620: //Function wCallNamedPipe( lpNamedPipeName : PKOLChar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12621: lpOutBuffer : Pointer; nOutBufferSize : DWORD; var lpBytesRead : DWORD; nTimeout : DWORD ) : BOOL
12622: //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig ) : BOOL
12623: Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
12624: lpString2 : PKOLChar; cchCount2 : Integer ) : Integer
12625: Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL ) : BOOL
12626: //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12627: TFNProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD ) : BOOL
12628: Function wCreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12629: Function wCreateDirectoryEx( lpTemplateDirectory,
12630: lpNewDirectory:PKOLChar;lpSecAttrib:PSecurityAttribs):BOOL;
12631: Function wCreateEvent(lpEventAttribs:PSecurityAttrib;bManualReset,
12632: bInitialState:BOOL;lpName:PKOLChar):THandle;
12633: Function wCreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
12634: PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes:DWORD;hTemplateFile:THandle):THandle
12635: Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; flProtect,
12636: dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar ) : THandle
12637: Function wCreateHardLink(lpFileName,
12638: lpExistingFileName:PKOLChar;lpSecurityAttributes:PSecurityAttributes):BOOL
12639: Function
12640: CreateMailslot(lpName:PKOLChar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes):THandle);
12641: Function wCreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
12642: nInBufferSize, nDefaultTimeout : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12643: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes,
12644: lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
12645: Pointer; lpCurrentDirectory:PKOLChar;const lpStartupInfo:TStartupInfo;var
12646: lpProcessInfo:TProcessInformation): BOOL
12647: Function wCreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
12648: Longint; lpName : PKOLChar ) : THandle
12649: Function
12650: wCreateWaitableTimer(lpTimerAttributes:PSecurityAttribs;bManualReset:BOOL;lpTimerName:PKOLChar):THandle);

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12636: Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar ) : BOOL
12637: Function wDeleteFile( lpFileName : PKOLChar ) : BOOL
12638: Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12639: //Function
wEnumCalendarInfo( lpCalInfEnumProc: TFNCalInfEnumProc; Locale: LCID; Calendar: CALID; CalType: CALTYPE ): BOOL;
12640: //Function wEnumDateFormats( lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD ) : BOOL
12641: // Function wEnumResourceLanguages( hModule: HMODULE; lpType,
lpName: PChar; lpEnumFunc: ENUMRESLANGPROC; lParam: Longint: BOOL' )
12642: //Function
wEnumResourceNames( hModule: HMODULE; lpType: PKOLChar; lpEnumFunc: ENUMRESNAMEPROC; lParam: Longint ): BOOL;
12643: //Function wEnumResourceTypes( hModule: HMODULE; lpEnumFunc: ENUMRESTYPEPROC; lParam: Longint ): BOOL;
12644: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCODEPAGEEnumProc; dwFlags : DWORD ) : BOOL
12645: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD ) : BOOL
12646: //Function wEnumTimeFormats( lpTimeFmtEnumProc: TFNTimeFmtEnumProc; Locale: LCID; dwFlags: DWORD ): BOOL;
12647: Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD ) : DWORD
12648: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar )
12649: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12650: Function wFindAtom( lpString : PKOLChar ) : ATOM
12651: Function
wFindFirstChangeNotification( lpPathName: PKOLChar; bWatchSubtree: BOOL; dwNotifyFilter: DWORD ): THandle;
12652: Function wFindFirstFile( lpFileName : PKOLChar; var lpFindFileData : TWIN32FindData ) : THandle
12653: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFindIndexInfoLevels; lpFindFileData :
Pointer; fSearchOp : TFindIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD ) : BOOL
12654: Function wFindNextFile( hFindFile : THandle; var lpFindFileData : TWIN32FindData ) : BOOL
12655: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar ) : HRSRC
12656: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word ) : HRSRC
12657: Function
wFoldString( dwMapFlags: DWORD; lpSrcStr: PKOLChar; cchSrc: Int; lpDestStr: PKOLChar; cchDest: Integer ): Integer;
12658: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
DWORD; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer ) : DWORD
12659: Function wFreeEnvironmentStrings( EnvBlock : PKOLChar ) : BOOL
12660: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12661: Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD ) : BOOL
12662: Function wGetCommandLine : PKOLChar
12663: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD ) : DWORD
12664: Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD ) : BOOL
12665: Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD ) : DWORD
12666: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer ) : Integer
12667: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12668: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar;
lpDateStr : PKOLChar; cchDate : Integer ) : Integer
12669: //Function wGetDefaultCommConfig( lpSzName: PKOLChar; var lpCC : TCommConfig; var lpDwSize: DWORD ): BOOL
12670: Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector,
lpNumberOfFreeClusters, lpTotalNumberOfClusters : DWORD ) : BOOL
12671: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger ) : BOOL
12672: Function wGetDriveType( lpRootPathName : PKOLChar ) : UINT
12673: Function wGetEnvironmentStrings : PKOLChar
12674: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD ) : DWORD;
12675: Function wGetFileAttributes( lpFileName : PKOLChar ) : DWORD
12676: //Function
wGetFileAttributesEx( lpFileName: PKOLChar; fInfoLevelId: TGetFileExInfoLevs; lpFileInform: Pointer ): BOOL;
12677: Function wGetFullPathName( lpFileName: PKOLChar; nBufferLength: WORD; lpBuffer: PKOLChar; var
lpFilePart: PKOLChar ): DWORD;
12678: //Function wGetLocaleInfo( Locale: LCID; LCTYPE: LCTYPE; lpLCData: PKOLChar; cchData: Integer ): Integer
12679: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12680: Function wGetModuleFileName( hModule : HINSTANCE; lpFilename : PKOLChar; nSize : DWORD ) : DWORD
12681: Function wGetModuleHandle( lpModuleName : PKOLChar ) : HMODULE
12682: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
lpCollectDataTimeout : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD ) : BOOL
12683: //Function wGetNumberFormat( Locale : LCID; dwFlags: DWORD; lpValue: PKOLChar; lpFormat: PNumberFmt;
lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12684: Function wGetPrivateProfileInt( lpAppName, lpKeyName: PKOLChar; nDefault: Integer; lpFileName: PKOLChar ): UINT;
12685: Function
wGetPrivateProfileSection( lpAppName: PKOLChar; lpRetrStr: PKOLChar; nSize: DWORD; pFileName: PKOLChar ): DWORD;
12686: Function wGetPrivateProfileSectionNames( lpSzReturnBuffer: PKOLChar; nSize: DWORD; lpFileName: PKOLChar ): DWORD;
12687: Function wGetPrivateProfileString( lpAppName, lpKeyName, lpDefault : PKOLChar; lpReturnedStr : PKOLChar;
nSize: DWORD; lpFileName : PKOLChar ) : DWORD
12688: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12689: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12690: Function wGetProfileString( lpAppName, lpKeyName,
lpDefault: PKOLChar; lpReturnedStr: PKOLChar; nSize: DWORD ): DWORD;
12691: Function wGetShortPathName( lpSzLongPath: PKOLChar; lpSzShortPath : PKOLChar; cchBuffer : DWORD ) : DWORD
12692: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo )
12693: // Function wGetStringTypeEx( Locale: LCID; dwInfoType: DWORD; lpSrcStr: PKOLChar; cchSrc: Integer; var
lpCharType ): BOOL
12694: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12695: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar; uUnique: UINT; lpTempFileName: PKOLChar ): UINT
12696: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12697: //Function
wGetTimeFormat( Loc: LCID; dwFlgs: DWORD; lpTime: PSystemTime; lpFrm: PKOLChar; lpTimeStr: PKOLChar; cTime: Int ): Int
12698: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
12699: //Function wGetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
: DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12700: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12701: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM

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12702: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12703: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12704: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT ) : BOOL
12705: Function
wLcMapString( Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int;
12706: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12707: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12708: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12709: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12710: Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TFNProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12711: Function wOpenEvent( dwDesiredAccess : DWORD; binheritHandle : BOOL; lpName:PKOLChar ) : THandle
12712: Function wOpenFileMapping( dwDesiredAccess : DWORD; binheritHandle:BOOL;lpName: PKOLChar):THandle
12713: Function wOpenMutex( dwDesiredAccess : DWORD; binheritHandle : BOOL; lpName : PKOLChar ) : THandle
12714: Function wOpenSemaphore( dwDesiredAccess : DWORD; binheritHandle : BOOL; lpName : PKOLChar):THandle
12715: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;binheritHandle:BOOL;lpTimerName:PKOLChar):THandle
12716: Procedure wOutputDebugString( lpOutputString : PKOLChar)
12717: Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
lpNumberOfEventsRead:DWORD):BOOL;
12718: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12719: Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12720: Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12721: Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
lpNumberOfEventsRead:DWORD):BOOL;
12722: Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
: TCoord; var lpReadRegion : TSmallRect ) : BOOL
12723: Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12724: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12725: Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12726: Function wSearchPath( lpPath, lpFileName, lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar):DWORD;
12727: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12728: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12729: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12730: Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12731: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12732: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12733: Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCData : PKOLChar ) : BOOL
12734: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12735: Function wUpdateResource(hUpdate:THandle;lpType,
lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12736: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12737: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12738: Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite :
DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12739: Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
var lpNumberOfEventsWritten : DWORD ) : BOOL
12740: Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12741: Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12742: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12743: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12744: Function wWriteProfileSection( lpAppName, lpString : PKOLChar ) : BOOL
12745: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12746: Function wlstreat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12747: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12748: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12749: Function wlstrocpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12750: Function wlstrocpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12751: Function wlstrlen( lpString : PKOLChar ) : Integer
12752: Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruc :
PNetConnectInfoStruct ) : DWORD
12753: Function wNetAddConnection2(var lpNetResource:TNetResource;lpPassword,
lpUserName:PKOLChar;dwFlags:DWORD):DWORD;
12754: Function wNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
lpUserName:PKOLChar; dwFlags : DWORD ) : DWORD
12755: Function wNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12756: Function wNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12757: Function wNetCancelConnection( lpName : PKOLChar; fForce : BOOL ) : DWORD
12758: Function wNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12759: Function wNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12760: Function wNetEnumResource(hEnum:THandle;var lpCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12761: Function wNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD):DWORD;
12762: Function wNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
: PKOLChar; nNameBufSize : DWORD ) : DWORD
12763: Function wNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12764: Function wNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12765: Function wNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12766: Function wNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
lpBufferSize:DWORD):DWORD;
12767: Function wNetGetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12768: Function wNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12769: Function wNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD
12770: Function wNetUseConnection(hwndOwner:HWND;var
lpNetResource:TNetResource;lpUserID:PKOLChar;lpPassword:PKOLChar; dwFlags:DWORD;lpAccessName:PKOLChar;var
lpBufferSize:DWORD;var lpResult:DWORD):DWORD

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12771: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12772: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD) : DWORD
12773: Function wVerFindFile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpDestDirLen : UINT) : DWORD
12774: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
szTmpFile : PKOLChar; var lpuTmpFileLen : UINT) : DWORD
12775: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lpBuffer:Ptr;var puLen:UINT):BOOL;
12776: //Function wGetPrivateProfileStruct(lpszSection,
lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12777: //Function wWritePrivateProfileStruct(lpszSection,
lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12778: Function wAddFontResource( FileName : PKOLChar) : Integer
12779: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector) : Integer
12780: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar) : HENHMETAFILE
12781: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar) : HMETAFILE
12782: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace) : HCOLORSPACE
12783: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvminit : PDeviceMode) : HDC
12784: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar) : HDC
12785: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientaion, fnWeight : Integer; fdwItalic,
fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
fdwPitchAndFamily:DWORD;lpszFace:PKOLChar):HFONT;
12786: Function wCreateFontIndirect( const p1 : TLogFont) : HFONT
12787: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV) : HFONT
12788: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvminit : PDeviceMode) : HDC
12789: Function wCreateMetaFile( p1 : PKOLChar) : HDC
12790: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar) : BOOL
12791: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int;
12792: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFNFontEnumProc; p4 : LPARAM) : BOOL
12793: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL);
12794: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;Entemprc:TFNFontEnumProc;lpszData:PKOLChar):Integer;
12795: //Function wEnumICMPProfiles( DC : HDC; ICMPProc : TFNICMEnumProc; p3 : LPARAM) : Integer
12796: //Function wExtTextOut(DC:HDC;X,
Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12797: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs) : BOOL
12798: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts) : BOOL
12799: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12800: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12801: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12802: // Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPRResults;p6:DWORD):DWORD
12803: Function wGetEnhMetaFile( p1 : PKOLChar) : HENHMETAFILE
12804: Function wGetEnhMetaFileDescription( p1 : HENHMETAFILE; p2 : UINT; p3 : PKOLChar) : UINT
12805: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : PWORD; p5 : DWORD) : DWORD
12806: // Function wGetGlyphOutline( DC : HDC; uChar,uFormat:UINT;const lpgm:TGlyphMetrics; cbBuffer : DWORD;
lpvBuffer : Pointer; const lpmat2 : TMat2) : DWORD
12807: Function wGetICMPProfile( DC : HDC; var Size : DWORD; Name : PKOLChar) : BOOL
12808: // Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD) : BOOL
12809: Function wGetMetaFile( p1 : PKOLChar) : HMETAFILE
12810: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer) : Integer
12811: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer) : UINT
12812: //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSize):BOOL
12813: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize) : BOOL
12814: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize) : BOOL
12815: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar) : Integer
12816: //Function wGetTextMetrics( DC : HDC; var TM : TTextMetric) : BOOL
12817: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer) : BOOL
12818: Function wRemoveFontResource( FileName : PKOLChar) : BOOL
12819: //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector) : BOOL
12820: //Function wResetDC( DC : HDC; const InitData : TDeviceMode) : HDC
12821: Function wSetICMPProfile( DC : HDC; Name : PKOLChar) : BOOL
12822: //Function wStartDoc( DC : HDC; const p2 : TDocInfo) : Integer
12823: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer) : BOOL
12824: Function wUpdateICMRegKey( p1 : DWORD; p2, p3 : PKOLChar; p4 : UINT) : BOOL
12825: Function wglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD) : BOOL
12826: //Function wglUseFontOutlines(p1:HDC; p2,p3,p4:DWORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL
12827: Function wAppendMenu( hMenu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar) : BOOL
12828: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer) : BOOL
12829: //Function
wCallWindowProc( lpPrevWndFunc:TFNWndProc;hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12830: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD) : Longint
12831: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar;var lpDevMode: TDeviceMode; wnd : HWND;
dwFlags : DWORD; lParam : Pointer) : Longint
12832: Function wChangeMenu( hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12833: Function wCharLower( lpsz : PKOLChar) : PKOLChar
12834: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD) : DWORD
12835: Function wCharNext( lpsz : PKOLChar) : PKOLChar
12836: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD) : LPSTR
12837: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar) : PKOLChar
12838: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD) : LPSTR
12839: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar) : BOOL
12840: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD) : BOOL
12841: Function wCharUpper( lpsz : PKOLChar) : PKOLChar
12842: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD) : DWORD
12843: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst : Integer) : Integer
12844: Function wCreateAcceleratorTable( var Accel, Count : Integer) : HACCEL
12845: //Function wCreateDesktop(lpszDesktop,
lpszDevice:PKOLChar;pDevmode:PDeviceMode;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12846: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM) : HWND

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12847: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12848: Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12849: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle:DWORD;X,Y,
nWidth, nHeight:Integer; hWndParent:HWND;hMenu:HMENU;hInstance:HINST;lpParam:Pointer):HWND
12850: //Function wCreateWindowStation(lpwinSta:PKOLChar;dwReserv,
dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12851: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12852: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12853: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12854: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM): LRESULT
12855: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
: HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12856: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
: TFNDlgProc; dwInitParam : LPARAM ) : Integer
12857: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12858: Function wDlgDirList(hDlg:HWND;lpPathSpec:PKOLChar;nIDListBox,
nIDStaticPath:Integer;uFileType:UINT):Integer;
12859: Function wDlgDirListComboBox(hDlg:HWND;lpPathSpec:PKOLChar;nIDComboBox,
nIDStaticPath:Integer;uFileType:UINT):Integer;
12860: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer): BOOL
12861: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12862: //Function wDrawState(DC:HDC;Brush:HBRUSH;CBFunc:TFNDrawStateProc;lData:LPARA;wDat:WPARA;x,y,cx,
cy:Integer;Flags:UINT):BOOL;
12863: Function wDrawText(hDC:HDC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT):Integer;
12864: Function wFindWindow( lpClassName, lpWindowName : PKOLChar ) : HWND
12865: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar ) : HWND
12866: //Function wGetAltTabInfo(hWnd:HWND;item:Integer;var
pati:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12867: //Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass ) : BOOL
12868: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx ) : BOOL
12869: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12870: Function wGetClassName( hWnd : HWND; lpClassName : PKOLChar; nMaxCount : Integer ) : Integer
12871: Function wGetClipboardFormatName( format : UINT; lpzFormatName:PKOLChar;cchMaxCount:Integer):Integer;
12872: Function wGetDlgItemText( hDlg: HWND;nIDDlgItem:Integer;lpString:PKOLChar;nMaxCount:Integer):UINT
12873: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer ) : Integer
12874: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar ) : BOOL
12875: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo ) : BOOL
12876: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer;
12877: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wParam:WPARAM; lParam:LPARAM; uType:UINT ) : Integer
12878: Function wGetProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12879: //Function wGetTabbedTextExtent( hDC : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
lpnTabStopPositions ) : DWORD
12880: //Function wGetObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Ptr;nLength:DWORD;var
lpnLengthNeed:DWORD):BOOL;
12881: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
12882: Function wGetWindowModuleFileName( hWnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UINT ) : Integer
12883: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12884: Function wGetWindowTextLength( hWnd : HWND ) : Integer
12885: //Function wGrayString(hDC:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:LPARA;nCnt,X,Y,nWidth,
nHeight:Integer):BOOL;
12886: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12887: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12888: Function wIsCharAlpha( ch : KOLChar ) : BOOL
12889: Function wIsCharAlphaNumeric( ch : KOLChar ) : BOOL
12890: Function wIsCharLower( ch : KOLChar ) : BOOL
12891: Function wIsCharUpper( ch : KOLChar ) : BOOL
12892: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12893: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
12894: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar ) : HBITMAP
12895: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12896: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12897: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
12898: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
12899: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
12900: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
12901: //Function wLoadMenuIndirect( lpMenuTemplate : Pointer ) : HMENU
12902: Function wLoadString(hInstance:HINST;uID:UINT;lpBuffer:PKOLChar;nBufferMax:Integer):Integer
12903: Function wMapVirtualKey( uCode, uMapType : UINT ) : Integer
12904: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwHKL : HKL ) : Integer
12905: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : Integer ) : Integer
12906: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12907: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : Integer
12908: Function wModifyMenu( hMnu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12909: //Function wOemToAnsi( const lpzSrc : LPCSTR; lpzDst : LPSTR ) : BOOL
12910: //Function wOemToAnsiBuff( lpzSrc : LPCSTR; lpzDst : LPSTR; cchDstLength : DWORD ) : BOOL
12911: //Function wOemToChar( lpzSrc : PKOLChar; lpzDst : PKOLChar ) : BOOL
12912: Function wOemToCharBuff( lpzSrc : PKOLChar; lpzDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12913: Function wOpenDesktop(lpzDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD): HDESK
12914: Function wOpenWindowStation( lpzWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD ) : HWINSTA
12915: Function wPeekMessage( var lpMsg : TMsg; hWnd : HWND; wParam:WPARAM; lParam:LPARAM; uType:UINT ) : Integer
12916: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12917: Function wPostThreadMessage(idThread:DWORD;Msg : Integer; wParam : WPARAM; lParam : LPARAM ) : Integer
12918: Function wRealGetWindowClass( hWnd : HWND; pszType : PKOLChar; cchType : Integer ) : Integer
12919: //Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
12920: //Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
12921: Function wRegisterClipboardFormat( lpzFormat : PKOLChar ) : Integer
12922: //Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY

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12923: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
12924: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12925: Function wSendDlgItemMessage( hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12926: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12927: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
lpResultCallback : TFNSendAsyncProc; dwData : DWORD ) : BOOL
12928: Function wSendMessageTimeout( hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
lpdwResult:DWORD): LRESULT
12929: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12930: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
12931: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar ) : BOOL
12932: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12933: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
12934: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12935: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
12936: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
12937: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
12938: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
12939: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni: UINT):BOOL
12940: Function wTabbedTextOut( hDC:HDC;X,Y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
lpnTabStopPositions,nTabOrigin:Int):Longint;
12941: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
12942: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
12943: Function wVkKeyScan( ch : KOLChar ) : SHORT
12944: Function wVkKeyScanEx( ch : KOLChar; dwHKL : HKL ) : SHORT
12945: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
12946: Function wwprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
12947: Function wvwsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
12948:
12949: //TestDrive!
12950: 'SID_REVISION','LongInt').SetInt(1;'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL
12951: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString('ConvertSidToStringSida
12952: Function GetDomainUserSid(const domainName:String;const userName:String; var foundDomain:String):String;
12953: Function GetLocalUserSidStr( const UserName : string ) : string
12954: Function GetPid4user( const domain : string; const user : string; var pid : dword ) : boolean
12955: Function Impersonate2User( const domain : string; const user : string ) : boolean
12956: Function GetProcessUserByPid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
12957: Function KillProcessbyname( const exename : string; var found : integer ) : integer
12958: Function getWinProcessList : TStringList
12959: end;
12960:
12961: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12962: begin
12963: 'AfMaxSyncSlots','LongInt').SetInt( 64);
12964: 'AfSynchronizeTimeout','LongInt').SetInt( 2000);
12965: 'TafSyncSlotID', 'DWORD
12966: 'TafSyncStatistics','record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end;
12967: 'TafSafeSyncEvent',' Procedure ( ID : TafSyncSlotID)
12968: 'TafSafeDirectSyncEvent',' Procedure
12969: Function AfNewSyncSlot( const AEvent : TafSafeSyncEvent ) : TafSyncSlotID
12970: Function AfReleaseSyncSlot( const ID : TafSyncSlotID ) : Boolean
12971: Function AfEnableSyncSlot( const ID : TafSyncSlotID; Enable : Boolean ) : Boolean
12972: Function AfValidateSyncSlot( const ID : TafSyncSlotID ) : Boolean
12973: Function AfSyncEvent( const ID : TafSyncSlotID; Timeout : DWORD ) : Boolean
12974: Function AfDirectSyncEvent( Event : TafSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
12975: Function AfIsSyncMethod : Boolean
12976: Function AfSyncWnd : HWND
12977: Function AfSyncStatistics : TafSyncStatistics
12978: Procedure AfClearSyncStatistics
12979: end;
12980:
12981: procedure SIRegister_AfComPortCore(CL: TPSPascalCompiler);
12982: begin
12983: 'fBinary','LongWord').SetUInt( $00000001);
12984: 'fParity','LongWord').SetUInt( $00000002);
12985: 'fOutxCtsFlow','LongWord').SetUInt( $00000004);
12986: 'fOutxDsrFlow','LongWord').SetUInt( $00000008);
12987: 'fDtrControl','LongWord').SetUInt( $00000030);
12988: 'fDtrControlDisable','LongWord').SetUInt( $00000000);
12989: 'fDtrControlEnable','LongWord').SetUInt( $00000010);
12990: 'fDtrControlHandshake','LongWord').SetUInt( $00000020);
12991: 'fDsrSensitivity','LongWord').SetUInt( $00000040);
12992: 'fTXContinueOnXoff','LongWord').SetUInt( $00000080);
12993: 'fOutX','LongWord').SetUInt( $00000100);
12994: 'fInX','LongWord').SetUInt( $00000200);
12995: 'fErrorChar','LongWord').SetUInt( $00000400);
12996: 'fNull','LongWord').SetUInt( $00000800);
12997: 'fRtsControl','LongWord').SetUInt( $00003000);
12998: 'fRtsControlDisable','LongWord').SetUInt( $00000000);
12999: 'fRtsControlEnable','LongWord').SetUInt( $00001000);
13000: 'fRtsControlHandshake','LongWord').SetUInt( $00002000);
13001: 'fRtsControlToggle','LongWord').SetUInt( $00003000);
13002: 'fAbortOnError','LongWord').SetUInt( $00004000);
13003: 'fDummy2','LongWord').SetUInt( $FFFF8000);
13004: 'TafCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13005: FindClass('TOBJECT'),'EAfComPortCoreError
13006: FindClass('TOBJECT'),'TafComPortCore
13007: 'TafComPortCoreEvent', 'Procedure ( Sender : TafComPortCore; Even'
13008: +tKind : TafCoreEvent; Data : DWORD)

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13009:   SIRegister_TafComPortCoreThread(CL);
13010:   SIRegister_TafComPortEventThread(CL);
13011:   SIRegister_TafComPortWriteThread(CL);
13012:   SIRegister_TafComPortCore(CL);
13013:   Function FormatDeviceName( PortNumber : Integer ) : string
13014: end;
13015:
13016: procedure SIRegister_ApplicationFileIO(CL: TPSPascalCompiler);
13017: begin
13018:   TAFIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13019:   TAFIOFileStreamExistsEvent', 'Function ( const fileName : String ) : Boolean
13020:   SIRegister_TApplicationFileIO(CL);
13021:   TDataFileCapability', '( dfcRead, dfcWrite )
13022:   TDataFileCapabilities', 'set of TDataFileCapability
13023:   SIRegister_TDataFile(CL);
13024:   //TDataFileClass', 'class of TDataFile
13025:   Function ApplicationFileIODefined : Boolean
13026:   Function CreateFileStream(const fileName : String; mode: WordfmShareDenyNone):TStream
13027:   Function FileStreamExists(const fileName : String) : Boolean
13028:   //Procedure Register
13029: end;
13030:
13031: procedure SIRegister_ALFBXLib(CL: TPSPascalCompiler);
13032: begin
13033:   TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13034:   +', uftCString, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecisi'
13035:   +', on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13036:   TALFBXScale', 'Integer
13037:   FindClass('TOBJECT'),'EALFBXConvertError
13038:   SIRegister_EALFBXError(CL);
13039:   SIRegister_EALFBXException(CL);
13040:   FindClass('TOBJECT'),'EALFBXGFixError
13041:   FindClass('TOBJECT'),'EALFBXDSQLError
13042:   FindClass('TOBJECT'),'EALFBXDynError
13043:   FindClass('TOBJECT'),'EALFBXGBakError
13044:   FindClass('TOBJECT'),'EALFBXGSecError
13045:   FindClass('TOBJECT'),'EALFBXLicenseError
13046:   FindClass('TOBJECT'),'EALFBXGStatError
13047:   //EALFBXExceptionClass', 'class of EALFBXError
13048:   TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13049:   +', 37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13050:   +', csEUCJ_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13051:   +', TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252,'
13052:   +', csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13053:   +', sDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13054:   +', _4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13055:   +', 8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13056:   TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13057:   +', Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13058:   +', LockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13059:   +', Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13060:   TALFBXTransParams', 'set of TALFBXTransParam
13061:   Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13062:   Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13063:   Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13064:   'cALFBXMaxParamLength', 'LongInt'.SetInt( 125);
13065:   TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13066:   TALFBXParamsFlags', 'set of TALFBXParamsFlag
13067:   //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13068:   //PALFBXSQLDaData', '^TALFBXSQLDaData // will not work
13069:   TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete,'
13070:   +', stDDL, stFXSegment, stPutSegment, stExecProcedure, stStartTrans, stComm'
13071:   +', t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13072:   SIRegister_TALFBXSQLDA(CL);
13073:   //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13074:   SIRegister_TALFBXPoolStream(CL);
13075:   //PALFBXBlobData', '^TALFBXBlobData // will not work
13076:   TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13077:   //PALFBXArrayDesc', '^TALFBXArrayDesc // will not work
13078:   //TALFBXArrayDesc', 'TISCArrDesc
13079:   //TALFBXBlobDesc', 'TISCBlobDesc
13080:   //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13081:   //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13082:   SIRegister_TALFBXSQLResult(CL);
13083:   //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13084:   SIRegister_TALFBXSQLParams(CL);
13085:   //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13086:   TALFBXDSQInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13087:   +', atementType : TALFBXStatementType; end
13088:   FindClass('TOBJECT'),'TALFBXLibrary
13089:   //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13090:   TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary)
13091:   //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13092:   //+ ' Excep : EALFBXExceptionClass)
13093:   SIRegister_TALFBXLibrary(CL);
13094:   'cALFBXDateOffset', 'LongInt'.SetInt( 15018);
13095:   'cALFBXTimeCoeff', 'LongInt'.SetInt( 864000000);
13096:   //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double);
13097:   //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp);

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13098: //Function ALFBXDecodeTimeStamp( v : PISCTimeStamp ) : Double;
13099: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word)
13100: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13101: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp);
13102: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp);
13103: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp);
13104: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer ) : Integer
13105: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord): Cardinal
13106:   TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prIgno )
13107:   TALFBXDPPInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13108: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13109: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13110: end;
13111:
13112: procedure SIRegister_ALFBXClient(CL: TPSPascalCompiler);
13113: begin
13114:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13115:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13116:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13117:     + 'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13118:     + 'teger; First : Integer; CacheThreshold : Integer; end
13119:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13120:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13121:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13122:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13123:     + '_writes : int64; page_fetches : int64; page_marks : int64; end
13124:   SIRegister_TALFBXClient(CL);
13125:   SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13126:   SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13127:   SIRegister_TALFBXConnectionWithStmntPoolContainer(CL);
13128:   SIRegister_TALFBXConnectionWithoutStmntPoolContainer(CL);
13129:   SIRegister_TALFBXReadTransactionPoolContainer(CL);
13130:   SIRegister_TALFBXReadStatementPoolContainer(CL);
13131:   SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13132:   SIRegister_TALFBXConnectionPoolClient(CL);
13133:   SIRegister_TALFBXEventThread(CL);
13134:   Function AlMySQLClientSlashedStr( const Str : AnsiString ) : AnsiString
13135: end;
13136:
13137: procedure SIRegister_ovcBidi(CL: TPSPascalCompiler);
13138: begin
13139:   _OSVERSIONINFOA = record
13140:     dwOSVersionInfoSize: DWORD;
13141:     dwMajorVersion: DWORD;
13142:     dwMinorVersion: DWORD;
13143:     dwBuildNumber: DWORD;
13144:     dwPlatformId: DWORD;
13145:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13146:   end;
13147:   TOSVersionInfoA', '_OSVERSIONINFOA
13148:   TOSVersionInfo', 'TOSVersionInfoA
13149:   'WS_EX_RIGHT','LongWord').SetUInt( $00001000);
13150:   'WS_EX_LEFT','LongWord').SetUInt( $00000000);
13151:   'WS_EX_RTLREADING','LongWord').SetUInt( $00002000);
13152:   'WS_EX_LTRREADING','LongWord').SetUInt( $00000000);
13153:   'WS_EX_LEFTSCROLLBAR','LongWord').SetUInt( $00004000);
13154:   'WS_EX_RIGHTSCROLLBAR','LongWord').SetUInt( $00000000);
13155:   Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13156:   'LAYOUT_RTL','LongWord').SetUInt( $00000001);
13157:   'LAYOUT_BTT','LongWord').SetUInt( $00000002);
13158:   'LAYOUT_VBH','LongWord').SetUInt( $00000004);
13159:   'LAYOUT_BITMAPORIENTATIONPRESERVED','LongWord').SetUInt( $00000008);
13160:   'NOMIRRORBITMAP','LongWord').SetUInt( DWORD ( $80000000 ));
13161:   Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13162:   Function GetLayout( dc : hdc ) : DWORD
13163:   Function IsBidi : Boolean
13164:   Function GetCurrentHwProfile( var lpHwProfileInfo : THWPProfileInfo ) : BOOL
13165:   Function GetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
13166:   Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD ) : BOOL
13167:   Function GetPriorityClass( hProcess : THandle ) : DWORD
13168:   Function OpenClipboard( hWndNewOwner : HWND ) : BOOL
13169:   Function CloseClipboard : BOOL
13170:   Function GetClipboardSequenceNumber : DWORD
13171:   Function GetClipboardOwner : HWND
13172:   Function SetClipboardViewer( hWndNewViewer : HWND ) : HWND
13173:   Function GetClipboardViewer : HWND
13174:   Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND ) : BOOL
13175:   Function SetClipboardData( uFormat : UINT; hMem : THandle ) : THandle
13176:   Function GetClipboardData( uFormat : UINT ) : THandle
13177:   Function RegisterClipboardFormat( lpszFormat : PChar ) : UINT
13178:   Function CountClipboardFormats : Integer
13179:   Function EnumClipboardFormats( format : UINT ) : UINT
13180:   Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13181:   Function EmptyClipboard : BOOL
13182:   Function IsClipboardFormatAvailable( format : UINT ) : BOOL
13183:   Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer ) : Integer
13184:   Function GetOpenClipboardWindow : HWND
13185:   Function EndDialog( hDlg : HWND; nResult : Integer ) : BOOL
13186:   Function GetDlgItem( hDlg : HWND; nIDlgItem : Integer ) : HWND

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13187: Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13188: Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13189: Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar) : BOOL
13190: Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UINT) : BOOL
13191: Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton, nIDCheckButton : Integer) : BOOL
13192: Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer) : UINT
13193: Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13194: end;
13195:
13196: procedure SIRegister_DXPUtils(CL: TPSPascalCompiler);
13197: begin
13198:   Function glExecuteAndWait(cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool):Int;
13199:   Function GetTemporaryFilePath : String
13200:   Function GetTemporaryFileName : String
13201:   Function FindFileInPaths( const fileName, paths : String) : String
13202:   Function PathsToString( const paths : TStringList) : String
13203:   Procedure StringToPaths( const pathsString : String; paths : TStringList)
13204:   //Function MacroExpandPath( const aPath : String) : String
13205: end;
13206:
13207: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13208: begin
13209:   SIRegister_TALMultiPartBaseContent(CL);
13210:   SIRegister_TALMultiPartBaseContents(CL);
13211:   SIRegister_TALMultiPartBaseStream(CL);
13212:   SIRegister_TALMultiPartBaseEncoder(CL);
13213:   SIRegister_TALMultiPartBaseDecoder(CL);
13214:   Function ALMultiPartExtractBoundaryFromContentType( aContentType : AnsiString) : AnsiString
13215:   Function ALMultiPartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13216:   Function ALMultiPartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13217: end;
13218:
13219: procedure SIRegister_SmallUtils(CL: TPSPascalCompiler);
13220: begin
13221:   TdriveSize', 'record FreeS : Int64; Totals : Int64; end
13222:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13223:   +teger; WinMinorVersion :Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13224:   Function aAllocPadedMem( Size : Cardinal) : TObjct
13225:   Procedure aFreePadedMem( var P : TObjct);
13226:   Procedure aFreePadedMeml( var P : PChar);
13227:   Function aCheckPadedMem( P : Pointer) : Byte
13228:   Function aGetPadMemSize( P : Pointer) : Cardinal
13229:   Function aAllocMem( Size : Cardinal) : Pointer
13230:   Function aStrLen( const Str : PChar) : Cardinal
13231:   Function aStrCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal) : PChar
13232:   Function aStrECopy( Dest : PChar; const Source : PChar) : PChar
13233:   Function aStrCopy( Dest : PChar; const Source : PChar) : PChar
13234:   Function aStrEnd( const Str : PChar) : PChar
13235:   Function aStrScan( const Str : PChar; aChr : Char) : PChar
13236:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal) : PChar
13237:   Function aPCharLength( const Str : PChar) : Cardinal
13238:   Function aPCharUpper( Str : PChar) : PChar
13239:   Function aPCharLower( Str : PChar) : PChar
13240:   Function aStrCat( Dest : PChar; const Source : PChar) : PChar
13241:   Function aLastDelimiter( const Delimiters, S : String) : Integer
13242:   Function aCopyTail( const S : String; Len : Integer) : String
13243:   Function aInt2Thos( I : Int64) : String
13244:   Function aUpperCase( const S : String) : String
13245:   Function aLowerCase( const S : string) : String
13246:   Function aCompareText( const S1, S2 : string) : Integer
13247:   Function aSameText( const S1, S2 : string) : Boolean
13248:   Function aInt2Str( Value : Int64) : String
13249:   Function aStr2Int( const Value : String) : Int64
13250:   Function aStr2IntDef( const S : string; Default : Int64) : Int64
13251:   Function aGetFileExt( const FileName : String) : String
13252:   Function aGetFilePath( const FileName : String) : String
13253:   Function aGetFileName( const FileName : String) : String
13254:   Function aChangeExt( const FileName, Extension : String) : String
13255:   Function aAdjustLineBreaks( const S : string) : string
13256:   Function aGetWindowStr( WinHandle : HWND) : String
13257:   Function aDiskSpace( Drive : String) : TdriveSize
13258:   Function aFileExists( FileName : String) : Boolean
13259:   Function aFileSize( FileName : String) : Int64
13260:   Function aDirectoryExists( const Name : string) : Boolean
13261:   Function aSysErrorMessage( ErrorCode : Integer) : string
13262:   Function aShortPathName( const LongName : string) : string
13263:   Function aGetWindowVer : TWinVerRec
13264:   procedure InitDriveSpacePtr;
13265: end;
13266:
13267: procedure SIRegister_MakeApp(CL: TPSPascalCompiler);
13268: begin
13269:   aZero', 'LongInt').SetInt( 0);
13270:   'makeappDEF', 'LongInt').SetInt( - 1);
13271:   'CS_VREDRAW', 'LongInt').SetInt( DWORD ( 1 ));
13272:   'CS_HREDRAW', 'LongInt').SetInt( DWORD ( 2 ));
13273:   'CS_KEYCVTWINDOW', 'LongInt').SetInt( 4);
13274:   'CS_DBLCLKS', 'LongInt').SetInt( 8);
13275:   'CS_OWNDC', 'LongWord').SetUInt( $20);

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13276: 'CS_CLASSDC','LongWord').SetUInt( $40);
13277: 'CS_PARENTDC','LongWord').SetUInt( $80);
13278: 'CS_NOKEYCVT','LongWord').SetUInt( $100);
13279: 'CS_NOCLOSE','LongWord').SetUInt( $200);
13280: 'CS_SAVEBITS','LongWord').SetUInt( $800);
13281: 'CS_BYTEALIGNCLIENT','LongWord').SetUInt( $1000);
13282: 'CS_BYTEALIGNWINDOW','LongWord').SetUInt( $2000);
13283: 'CS_GLOBALCLASS','LongWord').SetUInt( $4000);
13284: 'CS_IME','LongWord').SetUInt( $10000);
13285: 'CS_DROPSHADOW','LongWord').SetUInt( $20000);
13286: //PPanelFunc, '^TPanelFunc // will not work
13287: TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13288: TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13289: TFontLooks', 'set of TFontLook
13290: TMessagefunc', 'function(hWnd,iMsg,wParam,lParam:Integer):Integer)
13291: Function SetWinClass(const ClassName:String; pMessFunc: TMessagefunc; wcStyle : Integer): Word
13292: Function SetWinClassO( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13293: Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer) : Word
13294: Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13295: Procedure RunMsgLoop( Show : Boolean)
13296: Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13297: Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal/hFont:Int):Int;
13298: Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13299: Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13300: Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13301: Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13302: Function id4menu( a, b : Byte; c : Byte; d : Byte) : Cardinal
13303: Procedure DoInitMakeApp //set first to init formclasscontrol!
13304: end;
13305:
13306: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13307: begin
13308:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13309:   + 'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13310:   TScreenSaverOptions', 'set of TScreenSaverOption
13311:   'cDefaultScreenSaverOptions','LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13312:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND)
13313:   SIRegister_TScreenSaver(CL);
13314:   //Procedure Register
13315:   Procedure SetScreenSaverPassword
13316: end;
13317:
13318: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13319: begin
13320:   FindClass('TOBJECT'),'TXCollection
13321:   SIRegister_EFilerException(CL);
13322:   SIRegister_TXCollectionItem(CL);
13323:   //TXCollectionItemClass', 'class of TXCollectionItem
13324:   SIRegister_TXCollection(CL);
13325:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent)
13326:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent)
13327:   Procedure RegisterXCollectionItemClass( aclass : TXCollectionItemClass)
13328:   Procedure UnregisterXCollectionItemClass( aclass : TXCollectionItemClass)
13329:   Function FindXCollectionItemClass( const className : String) : TXCollectionItemClass
13330:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass) : TList
13331: end;
13332:
13333: procedure SIRegister_XOpenGL(CL: TPSPascalCompiler);
13334: begin
13335:   TMapTexCoordMode', '( mtcUndefined, mtcNull, mtcMain, mtcDual, mtcSecond,mtcmArbitrary);
13336:   Procedure xglMapTexCoordToNull
13337:   Procedure xglMapTexCoordToMain
13338:   Procedure xglMapTexCoordToSecond
13339:   Procedure xglMapTexCoordToDual
13340:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal);
13341:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal);
13342:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal)
13343:   Procedure xglBeginUpdate
13344:   Procedure xglEndUpdate
13345:   Procedure xglPushState
13346:   Procedure xglPopState
13347:   Procedure xglForbidSecondTextureUnit
13348:   Procedure xglAllowSecondTextureUnit
13349:   Function xglGetBitWiseMapping : Cardinal
13350: end;
13351:
13352: procedure SIRegister_VectorLists(CL: TPSPascalCompiler);
13353: begin
13354:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory)
13355:   TBaseListOptions', 'set of TBaseListOption
13356:   SIRegister_TBaseList(CL);
13357:   SIRegister_TBaseVectorList(CL);
13358:   SIRegister_TAffineVectorList(CL);
13359:   SIRegister_TVVectorList(CL);
13360:   SIRegister_TTexPointList(CL);
13361:   SIRegister_TXIntegerList(CL);

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13362: //PSingleArrayList', '^TSingleArrayList // will not work
13363: SIRegister_TSingleList(CL);
13364: SIRegister_TByteList(CL);
13365: SIRegister_TQuaternionList(CL);
13366: Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList);
13367: Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList);
13368: Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13369: end;
13370:
13371: procedure SIRegister_MeshUtils(CL: TPSPascalCompiler);
13372: begin
13373:   Procedure ConvertStripToTList( const strip : TAffineVectorList; list : TAffineVectorList);
13374:   Procedure ConvertStripToTList1( const strip : TIntegerList; list : TIntegerList);
13375:   Procedure ConvertStripToTList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13376:   Procedure ConvertIndexedTListToTList(const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList);
13377:   Function BuildVectorCountOptimizedIndices(const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList) : TIntegerList
13378:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList);
13379:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList);
13380:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList)
13381:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList) : TIntegerList
13382:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList)
13383:   Procedure RemapIndices( indices, indicesMap : TIntegerList)
13384:   Procedure UnifyTrianglesWinding( indices : TIntegerList)
13385:   Procedure InvertTrianglesWinding( indices : TIntegerList)
13386:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList) : TAffineVectorList
13387:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList) : TIntegerList
13388:   Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single)
13389:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):
TPersistentObjectList;
13390:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer)
13391:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices :
TIntegerList; normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent)
13392: end;
13393:
13394: procedure SIRegister_JclSysUtils(CL: TPSPascalCompiler);
13395: begin
13396:   Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte)
13397:   Procedure FreeMemAndNil( var P : TObject)
13398:   Function PCharOrNil( const S : string) : PChar
13399:   SIRegister_TJclReferenceMemoryStream(CL);
13400:   FindClass('TObject','EJclVMError
13401: {Function GetVirtualMethodCount( AClass : TClass) : Integer
13402: Function GetVirtualMethod( AClass : TClass; const Index : Integer) : Pointer
13403: Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer)
13404:   PDynamicIndexList', '^TDynamicIndexList // will not work
13405:   PDynamicAddressList', '^TDynamicAddressList // will not work
13406: Function GetDynamicMethodCount( AClass : TClass) : Integer
13407: Function GetDynamicIndexList( AClass : TClass) : PDynamicIndexList
13408: Function GetDynamicAddressList( AClass : TClass) : PDynamicAddressList
13409: Function HasDynamicMethod( AClass : TClass; Index : Integer) : Boolean
13410: Function GetDynamicMethod( AClass : TClass; Index : Integer) : Pointer
13411: Function GetInitTable( AClass : TClass) : PTypeInfo
13412:   PFieldEntry', '^TFieldEntry // will not work}
13413:   TFieldEntry', 'record OffSet : Integer; IDX : Word; Name : Short'
13414:   + 'String; end
13415:   Function JIsClass( Address : Pointer) : Boolean
13416:   Function JIsObject( Address : Pointer) : Boolean
13417:   Function GetImplementorOfInterface( const I : IInterface) : TObject
13418:   TDigitCount', 'Integer
13419:   SIRegister_TJclNumericFormat(CL);
13420:   Function JIntToStrZeroPad( Value, Count : Integer) : AnsiString
13421:   TTextHandler', 'Procedure ( const Text : string)
13422: // 'ABORT_EXIT_CODE','LongInt').SetInt( ERROR_CANCELLED 1223);
13423:   Function JExecute(const
CommandLine:string;OutputLineCallback:TTextHandler;RawOutput:Bool;AbortPtr:PBool):Card;
13424:   Function JExecute1(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13425:   Function ReadKey : Char //to and from the DOS console !
13426:   TModuleHandle', 'HINST
13427:   //TModuleHandle', 'Pointer
13428:   'INVALID_MODULEHANDLE_VALUE','LongInt').SetInt( TModuleHandle ( 0 ));
13429:   Function LoadModule( var Module : TModuleHandle; FileName : string) : Boolean
13430:   Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal) : Boolean
13431:   Procedure UnloadModule( var Module : TModuleHandle)
13432:   Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string) : Pointer
13433:   Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean) : Pointer
13434:   Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size: Cardinal):Boolean;
13435:   Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13436:   FindClass('TObject','EJclConversionError
13437:   Function JStrToBoolean( const S : string) : Boolean
13438:   Function JBooleanToStr( B : Boolean) : string
13439:   Function JIntToBool( I : Integer) : Boolean
13440:   Function JBoolToInt( B : Boolean) : Integer
13441:   'ListSeparator','String').SetString( '
13442:   'ListSeparator1','String').SetString( '

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13443: Procedure ListAddItems( var List : string; const Separator, Items : string)
13444: Procedure ListIncludeItems( var List : string; const Separator, Items : string)
13445: Procedure ListRemoveItems( var List : string; const Separator, Items : string)
13446: Procedure ListDelItem( var List : string; const Separator : string; const Index : Integer)
13447: Function ListItemCount( const List, Separator : string) : Integer
13448: Function ListGetItem( const List, Separator : string; const Index : Integer) : string
13449: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13450: Function ListItemIndex( const List, Separator, Item : string) : Integer
13451: Function SystemToObjectInstance : LongWord
13452: Function IsCompiledWithPackages : Boolean
13453: Function JjclGUIDToString( const GUID : TGUID) : string
13454: Function JjclStringToGUID( const S : string) : TGUID
13455: SIRegister_TJclIntfCriticalSection(CL);
13456: SIRegister_TJclSimpleLog(CL);
13457: Procedure InitSimpleLog( const ALogFileName : string)
13458: end;
13459:
13460: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13461: begin
13462:   FindClass('TOBJECT'),'EJclBorRADException
13463:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )
13464:   TJclBorRADToolEdition', '( deOPEN, dePRO, deSVR )
13465:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )
13466:   TJclBorRADToolPath', 'string
13467:   'SupportedDelphiVersions','LongInt').SetInt( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13468:   'SupportedBCBVersions','LongInt').SetInt( 5 or 6 or 10 or 11);
13469:   'SupportedBDSVersions','LongInt').SetInt( 1 or 2 or 3 or 4 or 5);
13470: BorRADToolRepositoryPagesSection,'String').SetString( 'Repository Pages
13471: BorRADToolRepositoryDialogsPage','String').SetString( 'Dialogs
13472: BorRADToolRepositoryFormsPage','String').SetString( 'Forms
13473: BorRADToolRepositoryProjectsPage','String').SetString( 'Projects
13474: BorRADToolRepositoryDataModulesPage','String').SetString( 'Data Modules
13475: BorRADToolRepositoryObjectType','String').SetString( 'Type
13476: BorRADToolRepositoryFormTemplate','String').SetString( 'FormTemplate
13477: BorRADToolRepositoryProjectTemplate','String').SetString( 'ProjectTemplate
13478: BorRADToolRepositoryObjectName','String').SetString( 'Name
13479: BorRADToolRepositoryObjectPage','String').SetString( 'Page
13480: BorRADToolRepositoryObjectIcon','String').SetString( 'Icon
13481: BorRADToolRepositoryObjectDescr','String').SetString( 'Description
13482: BorRADToolRepositoryObjectAuthor','String').SetString( 'Author
13483: BorRADToolRepositoryObjectAncestor','String').SetString( 'Ancestor
13484: BorRADToolRepositoryObjectDesigner','String').SetString( 'Designer
13485: BorRADToolRepositoryDesignerDfm','String').SetString( 'dfm
13486: BorRADToolRepositoryDesignerXfm','String').SetString( 'xfm
13487: BorRADToolRepositoryObjectNewForm','String').SetString( 'DefaultNewForm
13488: BorRADToolRepositoryObjectMainForm','String').SetString( 'DefaultMainForm
13489: SourceExtensionDelphiPackage','String').SetString( '.dpk
13490: SourceExtensionBCBPackage','String').SetString( '.bpb
13491: SourceExtensionDelphiProject','String').SetString( '.dpr
13492: SourceExtensionBCBProject','String').SetString( '.bpr
13493: SourceExtensionBDSProject','String').SetString( '.bdsproj
13494: SourceExtensionDProject','String').SetString( '.dproj
13495: BinaryExtensionPackage','String').SetString( '.bpl
13496: BinaryExtensionLibrary','String').SetString( '.dll
13497: BinaryExtensionExecutable','String').SetString( '.exe
13498: CompilerExtensionDCP','String').SetString( '.dcp
13499: CompilerExtensionBPI','String').SetString( '.bpi
13500: CompilerExtensionLIB','String').SetString( '.lib
13501: CompilerExtensionTDS','String').SetString( '.tds
13502: CompilerExtensionMAP','String').SetString( '.map
13503: CompilerExtensionDRC','String').SetString( '.drc
13504: CompilerExtensionDEF','String').SetString( '.def
13505: SourceExtensionCPP','String').SetString( '.cpp
13506: SourceExtensionH','String').SetString( '.h
13507: SourceExtensionPAS','String').SetString( '.pas
13508: SourceExtensionDFM','String').SetString( '.dfm
13509: SourceExtensionXFM','String').SetString( '.xfm
13510: SourceDescriptionPAS','String').SetString( 'Pascal source file
13511: SourceDescriptionCPP','String').SetString( 'C++ source file
13512: DesignerVCL','String').SetString( 'VCL
13513: DesignerCLX','String').SetString( 'CLX
13514: ProjectTypePackage','String').SetString( 'package
13515: ProjectTypeLibrary','String').SetString( 'library
13516: ProjectTypeProgram','String').SetString( 'program
13517: Personality32Bit','String').SetString( '32 bit
13518: Personality64Bit','String').SetString( '64 bit
13519: PersonalityDelphi','String').SetString( 'Delphi
13520: PersonalityDelphiDotNet','String').SetString( 'Delphi.net
13521: PersonalityBCB','String').SetString( 'C++Builder
13522: PersonalityCSB','String').SetString( 'C#Builder
13523: PersonalityVB','String').SetString( 'Visual Basic
13524: PersonalityDesign','String').SetString( 'Design
13525: PersonalityUnknown','String').SetString( 'Unknown personality
13526: PersonalityBDS','String').SetString( 'Borland Developer Studio
13527: DOFDirectoriesSection','String').SetString( 'Directories
13528: DOFUnitOutputDirKey','String').SetString( 'UnitOutputDir
13529: DOFSearchPathName','String').SetString( 'SearchPath
13530: DOFConditionals','String').SetString( 'Conditionals
13531: DOFLinkerSection','String').SetString( 'Linker

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13532: DOFPackagesKey','String').SetString( 'Packages
13533: DOFCompilerSection','String').SetString( 'Compiler
13534: DOFPackageNoLinkKey','String').SetString( 'PackageNoLink
13535: DOFAdditionalSection','String').SetString( 'Additional
13536: DOFOptionsKey','String').SetString( 'Options
13537: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13538:   + 'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13539:   + 'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13540: TJclBorPersonalities', 'set of TJclBorPersonality
13541: TJclBorDesigner', '( bdVCL, bdCLX )
13542: TJclBorDesigners', 'set of TJclBorDesigner
13543: TJclBorPlatform', '( bp32bit, bp64bit )
13544: FindClass('OBJECT'),'TJclBorRADToolInstallation
13545: SIRegister_TJclBorRADToolInstallationObject(CL);
13546: SIRegister_TJclBorLandOpenHelp(CL);
13547: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13548: TJclHelp2Objects', 'set of TJclHelp2Object
13549: SIRegister_TJclHelp2Manager(CL);
13550: SIRegister_TJclBorRADToolIdeTool(CL);
13551: SIRegister_TJclBorRADToolIdePackages(CL);
13552: SIRegister_IJclCommandLineTool(CL);
13553: FindClass('OBJECT'),'EJclCommandLineToolError
13554: SIRegister_TJclCommandLineTool(CL);
13555: SIRegister_TJclBorLandCommandLineTool(CL);
13556: SIRegister_TJclBCC32(CL);
13557: SIRegister_TJclDCC32(CL);
13558: TJclDCC', 'TJclDCC32
13559: SIRegister_TJclBpr2Mak(CL);
13560: SIRegister_TJclBorLandMake(CL);
13561: SIRegister_TJclBorRADToolPalette(CL);
13562: SIRegister_TJclBorRADToolRepository(CL);
13563: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13564: TCommandLineTools', 'set of TCommandLineTool
13565: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13566: SIRegister_TJclBorRADToolInstallation(CL);
13567: SIRegister_TJclBCBInstallation(CL);
13568: SIRegister_TJclDelphiInstallation(CL);
13569: SIRegister_TJclDCCIL(CL);
13570: SIRegister_TJclBDSInstallation(CL);
13571: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation) : Boolean
13572: SIRegister_TJclBorRADToolInstallations(CL);
13573: Function BPLFileName( const BPLPath, PackageFileName : string) : string
13574: Function BinaryFileName( const OutputPath, ProjectFileName : string) : string
13575: Function IsDelphiPackage( const FileName : string) : Boolean
13576: Function IsDelphiProject( const FileName : string) : Boolean
13577: Function IsBCBPackage( const FileName : string) : Boolean
13578: Function IsBCBProject( const FileName : string) : Boolean
13579: Procedure GetDPRFileInfo(const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString);
13580: Procedure GetBPRFileInfo(const BPRFileName:string;out BinaryFileName:string;const Descript:PString);
13581: Procedure GetDPKFileInfo(const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13582: Procedure GetBPKFileInfo(const BPKFileName:string;out RunOnly:Bool;const BinaryFNme:PString;const
Descript:PString
13583: function SamePath(const Path1, Path2: string): Boolean;
13584: end;
13585:
13586: procedure SIRegister_JclFileUtils_max(CL: TPSPascalCompiler);
13587: begin
13588:   'ERROR_NO_MORE_FILES','LongInt').SetInt( 18);
13589:   //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64) : Integer
13590:   //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64) : Integer
13591:   //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64) : Integer
13592:   'LPathSeparator','String').SetString( '/'
13593:   'LDirDelimiter','String').SetString( '/'
13594:   'LDirSeparator','String').SetString( ':'
13595:   'JXPathDevicePrefix','String').SetString( '\\.\
13596:   'JXPathSeparator','String').SetString( '\'
13597:   'JXDirDelimiter','String').SetString( '\'
13598:   'JXDirSeparator','String').SetString( ';'
13599:   'JXPathUncPrefix','String').SetString( '\\
13600:   'faNormalFile','LongWord').SetUInt( $00000080);
13601:   //faUnixSpecific','').SetString( faSymLink);
13602:   JXTCompactPath', '( cpCenter, cpEnd )
13603:   _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13604:   + 'tCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime : '
13605:   + 'TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13606:   TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13607:   WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13608:
13609: Function jxPathAddSeparator( const Path : string) : string
13610: Function jxPathAddExtension( const Path, Extension : string) : string
13611: Function jxPathAppend( const Path, Append : string) : string
13612: Function jxPathBuildRoot( const Drive : Byte) : string
13613: Function jxPathCanonicalize( const Path : string) : string
13614: Function jxPathCommonPrefix( const Path1, Path2 : string) : Integer
13615: Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13616: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
13617: Function jxPathExtractFileDirFixed( const S : string) : string
13618: Function jxPathExtractFileNameNoExt( const Path : string) : string

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13619: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13620: Function jxPathGetDepth( const Path : string ) : Integer
13621: Function jxPathGetLongName( const Path : string ) : string
13622: Function jxPathGetShortName( const Path : string ) : string
13623: Function jxPathGetLongName( const Path : string ) : string
13624: Function jxPathGetShortName( const Path : string ) : string
13625: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13626: Function jxPathGetTempPath : string
13627: Function jxPathIsAbsolute( const Path : string ) : Boolean
13628: Function jxPathIsChild( const Path, Base : string ) : Boolean
13629: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13630: Function jxPathIsUNC( const Path : string ) : Boolean
13631: Function jxPathRemoveSeparator( const Path : string ) : string
13632: Function jxPathRemoveExtension( const Path : string ) : string
13633: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13634: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13635: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders)
13636: JxTFileListOptions', 'set of TFileListOption
13637: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13638: TFileHandler', 'Procedure ( const FileName : string)
13639: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec)
13640: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13641: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
FileMatchFunc:TFileMatchFunc):Bool;
13642: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13643: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13644: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13645: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13646: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObjcet)
13647: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13648: Procedure jxCreateEmptyFile( const FileName : string)
13649: Function jxCloseVolume( var Volume : THandle ) : Boolean
13650: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13651: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13652: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13653: Function jxDelTree( const Path : string ) : Boolean
13654: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13655: Function jxDiskInDrive( Drive : Char ) : Boolean
13656: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13657: Function jxFileCreateTemp( var Prefix : string ) : THandle
13658: Function jxFileBackup( const FileName : string; Move : Boolean ) : Boolean
13659: Function jxFileCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13660: Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13661: Function jxFileExists( const FileName : string ) : Boolean
13662: Function jxFileMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13663: Function jxFileRestore( const FileName : string ) : Boolean
13664: Function jxGetBackupFileName( const FileName : string ) : string
13665: Function jxIsBackupFileName( const FileName : string ) : Boolean
13666: Function jxFileGetDisplayName( const FileName : string ) : string
13667: Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13668: Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13669: Function jxFileGetSize( const FileName : string ) : Int64
13670: Function jxFileGetTempName( const Prefix : string ) : string
13671: Function jxFileGetTypeNames( const FileName : string ) : string
13672: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string) : string
13673: Function jxForceDirectories( Name : string ) : Boolean
13674: Function jxGetDirectorySize( const Path : string ) : Int64
13675: Function jxGetDriveTypeStr( const Drive : Char ) : string
13676: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13677: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer)
13678: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
13679: Function jxGetFileInformation( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13680: Function jxGetFileInformation1( const FileName : string ) : TSearchRec;
13681: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
ResolveSymLinks:Boolean):Integer
13682: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13683: Function jxGetFileLastWrite1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13684: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13685: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13686: Function jxGetFileCreation( const FName : string ) : TFileTime;
13687: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13688: Function jxGetFileLastWrite( const FName : string;out TimeStamp:Integer;ResolveSymLinks : Bool):Bool;
13689: Function jxGetFileLastWrite1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13690: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13691: Function jxGetFileLastAccess(const FName:string; out TimeStamp:Integer;ResolveSymLinks: Bool): Bool;
13692: Function jxGetFileLastAccess1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13693: Function jxGetFileLastAccess2(const FName:string; ResolveSymLinks:Boolean): Integer;
13694: Function jxGetFileLastAttrChange(const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13695: Function jxGetFileLastAttrChange1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13696: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks:Boolean): Integer;
13697: Function jxGetModulePath( const Module : HMODULE ) : string
13698: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13699: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13700: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13701: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileAttributeData
13702: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean

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13703: Function jxIsRootDirectory( const CanonicFileName : string) : Boolean
13704: Function jxLockVolume( const Volume : string; var Handle : THandle) : Boolean
13705: Function jxOpenVolume( const Drive : Char) : THandle
13706: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime) : Boolean
13707: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime) : Boolean
13708: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime) : Boolean
13709: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime) : Boolean
13710: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime) : Boolean
13711: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime) : Boolean
13712: Procedure jxShredFile( const FileName : string; Times : Integer)
13713: Function jxUnlockVolume( var Handle : THandle) : Boolean
13714: Function jxCreateSymbolicLink( const Name, Target : string) : Boolean
13715: Function jxSymbolicLinkTarget( const Name : string) : string
13716: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )
13717: SIRegister_TJclCustomFileAttrMask(CL);
13718: SIRegister_TJclFileAttributeMask(CL);
13719: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS'
13720: +ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)
13721: TFileSearchOptions', 'set of TFileSearchOption
13722: TFileSearchTaskID', 'Integer
13723: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearch'
13724: +hTaskID; const Aborted : Boolean)
13725: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )
13726: SIRegister_IJclFileEnumerator(CL);
13727: SIRegister_TJclFileEnumerator(CL);
13728: Function JxFileSearch : IJclFileEnumerator
13729: JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )
13730: JxTFileFlags', 'set of TFileFlag
13731: FindClass('TOBJECT'), 'EJclFileVersionInfoError
13732: SIRegister_TJclFileVersionInfo(CL);
13733: Function jxOSIdentToString( const OSIdent : DWORD) : string
13734: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD) : string
13735: Function jxVersionResourceAvailable( const FileName : string) : Boolean
13736: TFileVersionFormat', '( vfMajorMinor, vfFull )
13737: Function jxFormatVersionString( const HiV, LoV : Word) : string;
13738: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word) : string;
13739: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo; VersionFormat: TFileVersionFormat): str;
13740: //Procedure VersionExtractFileInfo( const FixedInfo: TVSFixedFileInfo; var Major, Minor, Build, Revision: Word);
13741: //Procedure VersionExtractProductInfo( const FixedInfo: TVSFixedFileInfo; var Major, Minor, Build,
Revision: Word);
13742: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo) : Boolean
13743: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
NotAvailableText : string) : string
13744: SIRegister_TJclTempFileStream(CL);
13745: FindClass('TOBJECT'), 'TJclCustomFileMapping
13746: SIRegister_TJclFileMappingView(CL);
13747: TJclFileMappingRoundOffset', '( rvDown, rvUp )
13748: SIRegister_TJclCustomFileMapping(CL);
13749: SIRegister_TJclFileMapping(CL);
13750: SIRegister_TJclSwapFileMapping(CL);
13751: SIRegister_TJclFileMappingStream(CL);
13752: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )
13753: //PPCharArray', '^TPCharArray // will not work
13754: SIRegister_TJclMappedTextReader(CL);
13755: SIRegister_TJclFileMaskComparator(CL);
13756: FindClass('TOBJECT'), 'EJclPathError
13757: FindClass('TOBJECT'), 'EJclFileUtilsError
13758: FindClass('TOBJECT'), 'EJclTempFileStreamError
13759: FindClass('TOBJECT'), 'EJclTempFileStreamError
13760: FindClass('TOBJECT'), 'EJclFileMappingError
13761: FindClass('TOBJECT'), 'EJclFileMappingViewError
13762: Function jxPathGetLongName2( const Path : string) : string
13763: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
13764: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string) : Boolean
13765: Function jxWin32BackupFile( const FileName : string; Move : Boolean) : Boolean
13766: Function jxWin32RestoreFile( const FileName : string) : Boolean
13767: Function jxSamePath( const Path1, Path2 : string) : Boolean
13768: Procedure jxPathListAddItems( var List : string; const Items : string)
13769: Procedure jxPathListIncludeItems( var List : string; const Items : string)
13770: Procedure jxPathListDelItems( var List : string; const Items : string)
13771: Procedure jxPathListDelItem( var List : string; const Index : Integer)
13772: Function jxPathListItemCount( const List : string) : Integer
13773: Function jxPathListItemGetItem( const List : string; const Index : Integer) : string
13774: Procedure jxPathListItemSetItem( var List : string; const Index : Integer; const Value : string)
13775: Function jxPathListItemIndex( const List, Item : string) : Integer
13776: Function jxParamName(Idx: Int; const Separator: string; const AllowedPrefixChars: string; TrimName: Bool): string;
13777: Function jxParamValue( Index : Integer; const Separator : string; TrimValue : Boolean) : string;
13778: Function jxParamValue1( const SearchName: string; const Separator : string; CaseSensitive : Boolean; const
AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13779: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
AllowedPrefixCharacters : string) : Integer
13780: end;
13781:
13782: procedure SIRegister_FileUtil(CL: TPSPascalCompiler);
13783: begin
13784: 'UTF8FileHeader', 'String').SetString( #Sef#Sbb#Sbf);
13785: Function lCompareFileNames( const Filename1, Filename2 : string) : integer
13786: Function lCompareFileNamesIgnoreCase( const Filename1, Filename2 : string) : integer
13787: Function lCompareFileNames( const Filename1, Filename2 : string; ResolveLinks : boolean) : integer

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13788: Function lCompareFileNames(Filename1:PChar;Len1:int;Filename2:PChar;Len2:int;ResolveLinks:boolean):int;
13789: Function lFilenameIsAbsolute( const TheFilename : string ) : boolean
13790: Function lFilenameIsWinAbsolute( const TheFilename : string ) : boolean
13791: Function lFilenameIsUnixAbsolute( const TheFilename : string ) : boolean
13792: Procedure lCheckIfFileIsExecutable( const AFilename : string )
13793: Procedure lCheckIfFileIsSymlink( const AFilename : string )
13794: Function lFileIsReadable( const AFilename : string ) : boolean
13795: Function lFileIsWritable( const AFilename : string ) : boolean
13796: Function lFileIsText( const AFilename : string ) : boolean
13797: Function lFileIsText( const AFilename : string; out FileReadable : boolean ) : boolean
13798: Function lFileIsExecutable( const AFilename : string ) : boolean
13799: Function lFileIsSymlink( const AFilename : string ) : boolean
13800: Function lFileIsHardLink( const AFilename : string ) : boolean
13801: Function lFileSize( const Filename : string ) : int64;
13802: Function lGetFileDescription( const AFilename : string ) : string
13803: Function lReadAllLinks( const Filename : string; ExceptionOnError : boolean ) : string
13804: Function lTryReadAllLinks( const Filename : string ) : string
13805: Function lDirPathExists( const FileName : String ) : Boolean
13806: Function lForceDirectory( DirectoryName : string ) : boolean
13807: Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13808: Function lProgramDirectory : string
13809: Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13810: Function lExtractFileNameOnly( const AFilename : string ) : string
13811: Function lExtractFileNameWithoutExt( const AFilename : string ) : string
13812: Function lCompareFileExt( const Filename, Ext : string; CaseSensitive : boolean ) : integer;
13813: Function lCompareFileExt( const Filename, Ext : string ) : integer;
13814: Function lFilenameIsPascalUnit( const Filename : string ) : boolean
13815: Function lAppendPathDelim( const Path : string ) : string
13816: Function lChompPathDelim( const Path : string ) : string
13817: Function lTrimFilename( const AFilename : string ) : string
13818: Function lCleanAndExpandFilename( const Filename : string ) : string
13819: Function lCleanAndExpandDirectory( const Filename : string ) : string
13820: Function lCreateAbsolutePath( const SearchPath, BaseDirectory : string ) : string
13821: Function lCreateRelativePath( const Filename, BaseDirectory : string; UsePointDirectory : boolean;
AlwaysRequireSharedBaseFolder : Boolean ) : string
13822: Function lCreateAbsolutePath( const Filename, BaseDirectory : string ) : string
13823: Function lFileIsInPath( const Filename, Path : string ) : boolean
13824: Function lFileIsInDirectory( const Filename, Directory : string ) : boolean
13825: TSearchFileInPathFlag', '( sffDontSearchInBasePath, sffSearchLoUpCase )
13826: TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13827: 'AllDirectoryEntriesMask', 'String').SetString( '*'
13828: Function lGetAllFilesMask : string
13829: Function lGetExeExt : string
13830: Function lSearchFileInPath( const Filename, BasePath, SearchPath, Delimiter : string; Flags :
TSearchFileInPathFlags ) : string
13831: Function lSearchAllFilesInPath( const Filename, BasePath, SearchPath, Delimiter:string;Flags :
TSearchFileInPathFlags ) : TStringList
13832: Function lFindDiskFilename( const Filename : string ) : string
13833: Function lFindDiskFileCaseInsensitive( const Filename : string ) : string
13834: Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13835: Function lGetDarwinSystemFilename( Filename : string ) : string
13836: SIRegister_TFileIterator(CL);
13837: TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13838: TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13839: TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator)
13840: SIRegister_TFileSearcher(CL);
13841: Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13842: Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
13843: // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13844: // TCopyFileFlags', 'set of TCopyFileFlag
13845: Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags ) : boolean
13846: Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean ) : boolean
13847: Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags ) : Boolean
13848: Function lReadFileToString( const Filename : string ) : string
13849: Function lGetTempFilename( const Directory, Prefix : string ) : string
13850: {Function NeedRTLAnsi : boolean
13851: Procedure SetNeedRTLAnsi( NewValue : boolean)
13852: Function UTF8ToSys( const s : string ) : string
13853: Function SysToUTF8( const s : string ) : string
13854: Function ConsoleToUTF8( const s : string ) : string
13855: Function UTF8ToConsole( const s : string ) : string}
13856: Function FileExistsUTF8( const Filename : string ) : boolean
13857: Function FileAgeUTF8( const FileName : string ) : Longint
13858: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
13859: Function ExpandFileNameUTF8( const FileName : string ) : string
13860: Function ExpandUNCFileNameUTF8( const FileName : string ) : string
13861: Function ExtractShortPathNameUTF8( const FileName : String ) : String
13862: Function FindFirstUTF8(const Path: string; Attr : Longint; out Rslt : TSearchRec) : Longint
13863: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13864: Procedure FindCloseUTF8( var F : TSearchrec)
13865: Function FileSetDateUTF8( const FileName : String; Age : Longint ) : Longint
13866: Function FileGetAttrUTF8( const FileName : String ) : Longint
13867: Function FileSetAttrUTF8( const FileName : String; Attr : longint ) : Longint
13868: Function DeleteFileUTF8( const FileName : String ) : Boolean
13869: Function RenameFileUTF8( const OldName, NewName : String ) : Boolean
13870: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean ) : String
13871: Function FileIsReadOnlyUTF8( const FileName : String ) : Boolean
13872: Function GetCurrentDirUTF8 : String
13873: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean

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13874: Function CreateDirUTF8( const NewDir : String) : Boolean
13875: Function RemoveDirUTF8( const Dir : String) : Boolean
13876: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
13877: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
13878: Function FileCreateUTF8( const FileName : string) : THandle;
13879: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
13880: Function ParamStrUTF8( Param : Integer) : string
13881: Function GetEnvironmentStringUTF8( Index : Integer) : string
13882: Function GetEnvironmentVariableUTF8( const EnvVar : string) : String
13883: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
13884: Function GetAppConfigFileUTF8(Global: Boolean; SubDir: boolean; CreateDir : boolean) : string
13885: Function SysErrorMessageUTF8( ErrorCode : Integer) : String
13886: end;
13887:
13888: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13889: begin
13890:     //VK_F23 = 134;
13891:     //{$EXTERNALSYM VK_F24}
13892:     //VK_F24 = 135;
13893:     TVirtualKeyCode', 'Integer
13894:     'VK_MOUSEWHEELUP', 'integer').SetInt(134);
13895:     'VK_MOUSEWHEELDOWN', 'integer').SetInt(135);
13896: Function glIsKeyDown( c : Char) : Boolean;
13897: Function glIsKeyDown1( vk : TVirtualKeyCode) : Boolean;
13898: Function glKeyPressed( minVkCode : TVirtualKeyCode) : TVirtualKeyCode
13899: Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode) : String
13900: Function glKeyNameToVirtualKeyCode( const keyName : String) : TVirtualKeyCode
13901: Function glCharToVirtualKeyCode( c : Char) : TVirtualKeyCode
13902: Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer)
13903: end;
13904:
13905: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13906: begin
13907:     TGLPoint', 'TPoint
13908:     //PGLPoint', '^TGLPoint // will not work
13909:     TGLRect', 'TRect
13910:     //PGLRect', '^TGLRect // will not work
13911:     TDelphiColor', 'TColor
13912:     TGLPicture', 'TPicture
13913:     TGLGraphic', 'TGraphic
13914:     TGLBitmap', 'TBitmap
13915:     //TGraphicClass', 'class of TGraphic
13916:     TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13917:     TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
13918:     TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13919:     + 'Button; Shift : TShiftState; X, Y : Integer)
13920:     TGLMouseMoveEvent', 'TMouseMoveEvent
13921:     TGLKeyEvent', 'TKeyEvent
13922:     TGLKeyPressEvent', 'TKeyPressEvent
13923:     EGLError', 'EWin32Error
13924:     EGLError', 'EWin32Error
13925:     EGLError', 'EOSError
13926:     'glsAllFilter', 'string').SetString('All // sAllFilter
13927: Function GLPoint( const x, y : Integer) : TGLPoint
13928: Function GLRGB( const r, g, b : Byte) : TColor
13929: Function GLColorToRGB( color : TColor) : TColor
13930: Function GLGetRValue( rgb : DWORD) : Byte
13931: Function GLGetGValue( rgb : DWORD) : Byte
13932: Function GLGetBValue( rgb : DWORD) : Byte
13933: Procedure GLInitWinColors
13934: Function GLRect( const aLeft, aTop, aRight, aBottom : Integer) : TGLRect
13935: Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer)
13936: Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect)
13937: Procedure GLInformationDlg( const msg : String)
13938: Function GLQuestionDlg( const msg : String) : Boolean
13939: Function GLInputDialog( const aCaption, aPrompt, aDefault : String) : String
13940: Function GLSavePictureDialog( var aFileName : String; const aTitle : String) : Boolean
13941: Function GLOpenPictureDialog( var aFileName : String; const aTitle : String) : Boolean
13942: Function GLApplicationTerminated : Boolean
13943: Procedure GLRaiseLastOSError
13944: Procedure GLFreeAndNil( var anObject: TObject)
13945: Function GLGetDeviceLogicalPixelsX( device : Cardinal) : Integer
13946: Function GLGetCurrentColorDepth : Integer
13947: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat) : Integer
13948: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer) : Pointer
13949: Procedure GLSleep( length : Cardinal)
13950: Procedure GLQueryPerformanceCounter( var val : Int64)
13951: Function GLQueryPerformanceFrequency( var val : Int64) : Boolean
13952: Function GLStartPrecisionTimer : Int64
13953: Function GLPrecisionTimerLap( const precisionTimer : Int64) : Double
13954: Function GLStopPrecisionTimer( const precisionTimer : Int64) : Double
13955: Function GLRDTSC : Int64
13956: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string)
13957: Function GLOKMessageBox( const Text, Caption : string) : Integer
13958: Procedure GLShowHTMLUrl( Url : String)
13959: Procedure GLShowCursor( AShow : boolean)
13960: Procedure GLSetCursorPos( AScreenX, AScreenY : integer)
13961: Procedure GLGetCursorPos( var point : TGLPoint)
13962: Function GLGetScreenWidth : integer

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13963: Function GLGetScreenHeight : integer
13964: Function GLGetTickCount : int64
13965: function RemoveSpaces(const str : String) : String;
13966:   TNormalMapSpace', '( nmsObject, nmsTangent )
13967: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList;Colors:TVectorList)
13968: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList)
13969: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals :
  TAffineVectorList; Colors : TVectorList)
13970: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
  HiTexCoords:TAffineVectorList):TGLBitmap
13971: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
  LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
13972: end;
13973:
13974: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
13975: begin
13976:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
13977:   // PGLStarRecord', 'TGLStarRecord // will not work
13978: Function StarRecordPositionZUp( const starRecord : TGLStarRecord) : TAffineVector
13979: Function StarRecordPositionYUp( const starRecord : TGLStarRecord) : TAffineVector
13980: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single) : TVector
13981: end;
13982:
13983:
13984: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
13985: begin
13986:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
13987:   //PAABB', 'TAABB // will not work
13988:   TBSphere', 'record Center : TAffineVector; Radius : single; end
13989:   TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
13990:   TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
13991: Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox) : THmgBoundingBox
13992: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB)
13993: Procedure SetBB( var c : THmgBoundingBox; const v : TVector)
13994: Procedure SetAABB( var bb : TAABB; const v : TVector)
13995: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix)
13996: Procedure AABBBTransform( var bb : TAABB; const m : TMatrix)
13997: Procedure AABBScale( var bb : TAABB; const v : TAffineVector)
13998: Function BBMinX( const c : THmgBoundingBox) : Single
13999: Function BBMaxX( const c : THmgBoundingBox) : Single
14000: Function BBMinY( const c : THmgBoundingBox) : Single
14001: Function BBMaxY( const c : THmgBoundingBox) : Single
14002: Function BBMinZ( const c : THmgBoundingBox) : Single
14003: Function BBMaxZ( const c : THmgBoundingBox) : Single
14004: Procedure AABBIInclude( var bb : TAABB; const p : TAffineVector)
14005: Procedure AABBFFromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single)
14006: Function AABBIIntersection( const aabb1, aabb2 : TAABB) : TAABB
14007: Function BBToAABB( const aabb : THmgBoundingBox) : TAABB
14008: Function AABBTToBB( const anAABB : TAABB) : THmgBoundingBox;
14009: Function AABBTToBBI( const anAABB : TAABB; const m : TMatrix) : THmgBoundingBox;
14010: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector);
14011: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector);
14012: Function IntersectAABBs( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix) : Boolean;
14013: Function IntersectAABBsAbsoluteXY( const aabb1, aabb2 : TAABB) : Boolean
14014: Function IntersectAABBsAbsoluteXZ( const aabb1, aabb2 : TAABB) : Boolean
14015: Function IntersectAABBsAbsolute( const aabb1, aabb2 : TAABB) : Boolean
14016: Function AABBFitsInAABBAbsolute( const aabb1, aabb2 : TAABB) : Boolean
14017: Function PointInAABB( const p : TAffineVector; const aabb : TAABB) : Boolean;
14018: Function PointInAABB1( const p : TVector; const aabb : TAABB) : Boolean;
14019: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB) : boolean
14020: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector) : boolean
14021: Procedure ExtractAABBCorners( const AABBB : TAABB; var AABBCorners : TAABBCorners)
14022: Procedure AABBTToBSphere( const AABBB : TAABB; var BSphere : TBSphere)
14023: Procedure BSphereToAABB( const BSphere : TBSphere; var AABBB : TAABB);
14024: Function BSphereToAABB1( const center : TAffineVector; radius : Single) : TAABB;
14025: Function BSphereToAABB2( const center : TVector; radius : Single) : TAABB;
14026: Function AABBBContainsAABB( const mainAABB, testAABB : TAABB) : TSpaceContains
14027: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB) : TSpaceContains
14028: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere) : TSpaceContains
14029: Function AABBBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere) : TSpaceContains
14030: Function PlaneContainsBSphere(const Location,Normal:TAffineVector;const
  testBSphere:TBSphere):TSpaceContains
14031: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere) : TSpaceContains
14032: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB) : TSpaceContains
14033: Function ClipToAABB( const v : TAffineVector; const AABBB : TAABB) : TAffineVector
14034: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere) : boolean
14035: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single)
14036: Function AABBTToClipRect(const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
  viewportSizeY:Int):TClipRect
14037: end;
14038:
14039: procedure SIRegister_GeometryCoordinates(CL: TPSPascalCompiler);
14040: begin
14041: Procedure Cylindrical_Cartesian( const r, theta, z1 : single; var x, y, z : single);
14042: Procedure Cylindrical_Cartesian1( const r, theta, z1 : double; var x, y, z : double);
14043: Procedure Cylindrical_Cartesian2( const r,theta,z1 : single; var x, y, z : single; var ierr : integer);
14044: Procedure Cylindrical_Cartesian3( const r,theta,z1 : double; var x, y, z : double; var ierr : integer);
14045: Procedure Cartesian_Cylindrical( const x, y, z1 : single; var r, theta, z : single);
14046: Procedure Cartesian_Cylindrical1( const x, y, z1 : double; var r, theta, z : double);

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14047: Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single);
14048: Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double);
14049: Procedure Spherical_Cartesian2( const r, theta, phi : single; var x, y, z : single; var ierr : integer);
14050: Procedure Spherical_Cartesian3( const r, theta, phi : double; var x, y, z : double; var ierr : integer);
14051: Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single);
14052: Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single);
14053: Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double);
14054: Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14055: Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14056: Procedure ProlateSpheroidal_Cartesian2( const xi, eta, phi, a : single; var x, y, z : single; var ierr : integer);
14057: Procedure ProlateSpheroidal_Cartesian3( const xi, eta, phi, a : double; var x, y, z : double; var ierr : integer);
14058: Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14059: Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14060: Procedure OblateSpheroidal_Cartesian2( const xi, eta, phi, a : single; var x, y, z : single; var ierr : integer);
14061: Procedure OblateSpheroidal_Cartesian3( const xi, eta, phi, a : double; var x, y, z : double; var ierr : integer);
14062: Procedure BipolarCylindrical_Cartesian( const u, v, z1, a : single; var x, y, z : single);
14063: Procedure BipolarCylindrical_Cartesian1( const u, v, z1, a : double; var x, y, z : double);
14064: Procedure BipolarCylindrical_Cartesian2( const u, v, z1, a : single; var x, y, z : single; var ierr : integer);
14065: Procedure BipolarCylindrical_Cartesian3( const u, v, z1, a : double; var x, y, z : double; var ierr : integer);
14066: end;
14067:
14068: procedure SIRegister_VectorGeometry(CL: TPSPascalCompiler);
14069: begin
14070:   'EPSILON', 'Single').setExtended( 1e-40);
14071:   'EPSILON2', 'Single').setExtended( 1e-30); }
14072: TRenderContextClippingInfo, 'record origin : TVector; clippingD'
14073:   + 'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14074:   THmgPlane', 'TVector
14075:   TDoubleHmgPlane', 'THomogeneousDblVector
14076:   {TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14077:   + 'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14078:   + ', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14079:   TSingleArray', 'array of Single
14080:   TTransformations', 'array [0..15] of Single)
14081:   TPackedRotationMatrix', 'array [0..2] of Smallint)
14082:   TVertex', 'TAffineVector
14083:   //TVectorGL', 'THomogeneousFltVector
14084:   //TMatrixGL', 'THomogeneousFltMatrix
14085:   // TPackedRotationMatrix = array [0..2] of SmallInt;
14086: Function glTexPointMake( const s, t : Single) : TTexPoint
14087: Function glAffineVectorMake( const x, y, z : Single) : TAffineVector;
14088: Function glAffineVectorMakel( const v : TVectorGL) : TAffineVector;
14089: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single);
14090: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single);
14091: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL);
14092: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector);
14093: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector);
14094: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL);
14095: Function glVectorMake( const v : TAffineVector; w : Single) : TVectorGL;
14096: Function glVectorMakel( const x, y, z : Single; w : Single) : TVectorGL;
14097: Function glPointMake( const x, y, z : Single) : TVectorGL;
14098: Function glPointMakel( const v : TAffineVector) : TVectorGL;
14099: Function glPointMake2( const v : TVectorGL) : TVectorGL;
14100: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single);
14101: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single);
14102: Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL);
14103: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single);
14104: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector);
14105: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL);
14106: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single);
14107: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single);
14108: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector);
14109: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL);
14110: Procedure glRstVector( var v : TAffineVector);
14111: Procedure glRstVector1( var v : TVectorGL);
14112: Function glVectorAdd( const v1, v2 : TAffineVector) : TAffineVector;
14113: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector);
14114: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector);
14115: Function glVectorAdd3( const v1, v2 : TVectorGL) : TVectorGL;
14116: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL);
14117: Function glVectorAdd5( const v : TAffineVector; const f : Single) : TAffineVector;
14118: Function glVectorAdd6( const v : TVectorGL; const f : Single) : TVectorGL;
14119: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector);
14120: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL);
14121: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL);
14122: Procedure glAddVector10( var v : TAffineVector; const f : Single);
14123: Procedure glAddVector11( var v : TVectorGL; const f : Single);
14124: //Procedure TexPointArrayAdd(const src:PTexPointArray;const delta:TTexPoint;const
nb:Int;dest:PTexPointArray);
14125: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray;const delta:TTexPoint;const
nb:Integer;const scale: TTexPoint; dest : PTexPointArray);
14126: //Procedure VectorArrayAdd(const src:PAffineVectorArray;const delta:TAffineVector;const nb:Integer;dest:
PAffineVectorArray);
14127: Function glVectorSubtract( const V1, V2 : TAffineVector) : TAffineVector;
14128: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector);
14129: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL);
14130: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL);
14131: Function glVectorSubtract4( const V1, V2 : TVectorGL) : TVectorGL;
14132: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL);

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14133: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector);
14134: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single) : TAffineVector;
14135: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single) : TVectorGL;
14136: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector);
14137: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL);
14138: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single);
14139: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat);
14140: Function glTexPointCombine( const t1, t2 : TTexPoint; f1, f2 : Single) : TTexPoint
14141: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single) : TAffineVector;
14142: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single) : TAffineVector;
14143: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector);
14144: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single);
14145: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single);
14146: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single) : TVectorGL;
14147: Function glVectorCombine8( const V1 : TVectorGL; const V2: TAffineVector; const F1,F2:Single) : TVectorGL;
14148: Procedure glVectorCombine9( const V1:TVectorGL; const V2:TAffineVector; const F1,F2:Single; var vr:TVectorGL);
14149: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL);
14150: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL);
14151: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single) : TVectorGL;
14152: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL);
14153: Function glVectorDotProduct( const V1, V2 : TAffineVector) : Single;
14154: Function glVectorDotProduct1( const V1, V2 : TVectorGL) : Single;
14155: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector) : Single;
14156: Function glPointProject( const p, origin, direction : TAffineVector) : Single;
14157: Function glPointProject1( const p, origin, direction : TVectorGL) : Single;
14158: Function glVectorCrossProduct( const V1, V2 : TAffineVector) : TAffineVector;
14159: Function glVectorCrossProduct1( const V1, V2 : TVectorGL) : TVectorGL;
14160: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL);
14161: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL);
14162: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector);
14163: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector);
14164: Function glLerp( const start, stop, t : Single) : Single
14165: Function glAngleLerp( start, stop, t : Single) : Single
14166: Function glDistanceBetweenAngles( angle1, angle2 : Single) : Single
14167: Function glTexPointLerp( const t1, t2 : TTexPoint; t : Single) : TTexPoint;
14168: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14169: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector);
14170: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single) : TVectorGL;
14171: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL);
14172: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14173: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single) : TAffineVector;
14174: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray);
14175: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest :
    PAffineVectorArray);
14176: Function glVectorLength( const x, y : Single) : Single;
14177: Function glVectorLength1( const x, y, z : Single) : Single;
14178: Function glVectorLength2( const v : TAffineVector) : Single;
14179: Function glVectorLength3( const v : TVectorGL) : Single;
14180: Function glVectorLength4( const v : array of Single) : Single;
14181: Function glVectorNorm( const x, y : Single) : Single;
14182: Function glVectorNorm1( const v : TAffineVector) : Single;
14183: Function glVectorNorm2( const v : TVectorGL) : Single;
14184: Function glVectorNorm3( var V : array of Single) : Single;
14185: Procedure glNormalizeVector( var v : TAffineVector);
14186: Procedure glNormalizeVector1( var v : TVectorGL);
14187: Function glVectorNormalize( const v : TAffineVector) : TAffineVector;
14188: Function glVectorNormalize1( const v : TVectorGL) : TVectorGL;
14189: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer);
14190: Function glVectorAngleCosine( const V1, V2 : TAffineVector) : Single
14191: Function glVectorNegate( const v : TAffineVector) : TAffineVector;
14192: Function glVectorNegate1( const v : TVectorGL) : TVectorGL;
14193: Procedure glNegateVector( var V : TAffineVector);
14194: Procedure glNegateVector2( var V : TVectorGL);
14195: Procedure glNegateVector3( var V : array of Single);
14196: Procedure glScaleVector( var v : TAffineVector; factor : Single);
14197: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector);
14198: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14199: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14200: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14201: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14202: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14203: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);
14204: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14205: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14206: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14207: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14208: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14209: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14210: Function glVectorIsNull1( const v : TAffineVector) : Boolean;
14211: Function glVectorSpacing( const v1, v2 : TTexPoint) : Single;
14212: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14213: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14214: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14215: Function glVectorDistance1( const v1, v2 : TVectorGL) : Single;
14216: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14217: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14218: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector
14219: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector
14220: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);

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14221: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14222: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single)
14223: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;
14224: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single) : TAffineVector;
14225: Procedure glVectorRotateAroundZ( const v : TAffineVector; alpha : Single; var vr : TAffineVector);
14226: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single) : TAffineVector;
14227: Procedure glAbsVector( var v : TVectorGL);
14228: Procedure glAbsVector1( var v : TAffineVector);
14229: Function glVectorAbs( const v : TVectorGL) : TVectorGL;
14230: Function glVectorAbs1( const v : TAffineVector) : TAffineVector;
14231: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL);
14232: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL);
14233: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix);
14234: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL);
14235: Function glCreateScaleMatrix( const v : TAffineVector) : TMatrixGL;
14236: Function glCreateScaleMatrix1( const v : TVectorGL) : TMatrixGL;
14237: Function glCreateTranslationMatrix( const V : TAffineVector) : TMatrixGL;
14238: Function glCreateTranslationMatrix1( const v : TVectorGL) : TMatrixGL;
14239: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL) : TMatrixGL;
14240: Function glCreateRotationMatrixX( const sine, cosine : Single) : TMatrixGL;
14241: Function glCreateRotationMatrixX1( const angle : Single) : TMatrixGL;
14242: Function glCreateRotationMatrixY( const sine, cosine : Single) : TMatrixGL;
14243: Function glCreateRotationMatrixY1( const angle : Single) : TMatrixGL;
14244: Function glCreateRotationMatrixZ( const sine, cosine : Single) : TMatrixGL;
14245: Function glCreateRotationMatrixZ1( const angle : Single) : TMatrixGL;
14246: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single) : TMatrixGL;
14247: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single) : TMatrixGL;
14248: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix
14249: Function glMatrixMultiply( const M1, M2 : TAffineMatrix) : TAffineMatrix;
14250: Function glMatrixMultiply1( const M1, M2 : TMatrixGL) : TMatrixGL;
14251: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL);
14252: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL) : TVectorGL;
14253: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix) : TVectorGL;
14254: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL) : TAffineVector;
14255: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix) : TAffineVector;
14256: Function glMatrixDeterminant( const M : TAffineMatrix) : Single;
14257: Function glMatrixDeterminant1( const M : TMatrixGL) : Single;
14258: Procedure glAdjointMatrix( var M : TMatrixGL);
14259: Procedure glAdjointMatrix1( var M : TAffineMatrix);
14260: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single);
14261: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single);
14262: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector);
14263: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL);
14264: Procedure glNormalizeMatrix( var M : TMatrixGL);
14265: Procedure glTransposeMatrix( var M : TAffineMatrix);
14266: Procedure glTransposeMatrix1( var M : TMatrixGL);
14267: Procedure glInvertMatrix( var M : TMatrixGL);
14268: Procedure glInvertMatrix1( var M : TAffineMatrix);
14269: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL) : TMatrixGL
14270: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations) : Boolean
14271: Function glPlaneMake( const p1, p2, p3 : TAffineVector) : THmgPlane;
14272: Function glPlaneMake1( const p1, p2, p3 : TVectorGL) : THmgPlane;
14273: Function glPlaneMake2( const point, normal : TAffineVector) : THmgPlane;
14274: Function glPlaneMake3( const point, normal : TVectorGL) : THmgPlane;
14275: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane)
14276: Procedure glNormalizePlane( var plane : THmgPlane)
14277: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector) : Single;
14278: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL) : Single;
14279: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector) : TAffineVector;
14280: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector);
14281: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector);
14282: Function glPointsInHalfSpace( const point, planePoint, planeNormal : TVectorGL) : Boolean;
14283: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector) : Boolean;
14284: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL) : Single;
14285: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector) : Single;
14286: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector
14287: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector) : single
14288: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector) : TAffineVector
14289: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector) : Single
14290: Procedure SglegmentSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
Segment0Closest, Segment1Closest : TAffineVector)
14291: Function glSegmentDistance( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector) : single
14292: TEulerOrder', '( eulXYZ, eulXZY, eulYZX, eulZYX, eulZXY, eulZYX)
14293: Function glQuaternionMake( const Imag : array of Single; Real : Single) : TQuaternion
14294: Function glQuaternionConjugate( const Q : TQuaternion) : TQuaternion
14295: Function glQuaternionMagnitude( const Q : TQuaternion) : Single
14296: Procedure glNormalizeQuaternion( var Q : TQuaternion)
14297: Function glQuaternionFromPoints( const V1, V2 : TAffineVector) : TQuaternion
14298: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector)
14299: Function glQuaternionFromMatrix( const mat : TMatrixGL) : TQuaternion
14300: Function glQuaternionToMatrix( quat : TQuaternion) : TMatrixGL
14301: Function glQuaternionToAffineMatrix( quat : TQuaternion) : TAffineMatrix
14302: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector) : TQuaternion
14303: Function glQuaternionFromRollPitchYaw( const r, p, y : Single) : TQuaternion
14304: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder) : TQuaternion
14305: Function glQuaternionMultiply( const qL, qR : TQuaternion) : TQuaternion
14306: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single) : TQuaternion;
14307: Function glQuaternionSlerp1( const source, dest : TQuaternion; const t : Single) : TQuaternion;
14308: Function glLnXP1( X : Extended) : Extended

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14309: Function glLog10( X : Extended) : Extended
14310: Function glLog2( X : Extended) : Extended;
14311: Function glLog2l( X : Single) : Single;
14312: Function glLogN( Base, X : Extended) : Extended
14313: Function glIntPower( Base : Extended; Exponent : Integer) : Extended
14314: Function glPower( const Base, Exponent : Single) : Single;
14315: Function glPowerl( Base : Single; Exponent : Integer) : Single;
14316: Function glDegToRad( const Degrees : Extended) : Extended;
14317: Function glDegToRadl( const Degrees : Single) : Single;
14318: Function glRadToDeg( const Radians : Extended) : Extended;
14319: Function glRadToDegl( const Radians : Single) : Single;
14320: Function glNormalizeAngle( angle : Single) : Single
14321: Function glNormalizeDegAngle( angle : Single) : Single
14322: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended);
14323: Procedure glSinCosl( const Theta : Double; var Sin, Cos : Double);
14324: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single);
14325: Procedure glSinCosl( const theta, radius : Double; var Sin, Cos : Extended);
14326: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double);
14327: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single);
14328: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single)
14329: Function glArcCos( const X : Extended) : Extended;
14330: Function glArcCosl( const x : Single) : Single;
14331: Function glArcSin( const X : Extended) : Extended;
14332: Function glArcSinl( const X : Single) : Single;
14333: Function glArcTan2l( const Y, X : Extended) : Extended;
14334: Function glArcTan2l( const Y, X : Single) : Single;
14335: Function glFastArcTan2( y, x : Single) : Single
14336: Function glTan( const X : Extended) : Extended;
14337: Function glTanl( const X : Single) : Single;
14338: Function glCoTan( const X : Extended) : Extended;
14339: Function glCoTanl( const X : Single) : Single;
14340: Function glSinh( const x : Single) : Single;
14341: Function glSinh1( const x : Double) : Double;
14342: Function glCosh( const x : Single) : Single;
14343: Function glCosh1( const x : Double) : Double;
14344: Function glRSqrt( v : Single) : Single
14345: Function glRLength( x, y : Single) : Single
14346: Function glISqrt( i : Integer) : Integer
14347: Function glLLength( x, y : Integer) : Integer;
14348: Function glLLengthl( x, y, z : Integer) : Integer;
14349: Procedure glRegisterBasedExp
14350: Procedure glRandomPointOnSphere( var p : TAffineVector)
14351: Function glRoundInt( v : Single) : Single;
14352: Function glRoundIntl( v : Extended) : Extended;
14353: Function glTrunc( v : Single) : Integer;
14354: Function glTrunc64( v : Extended) : Int64;
14355: Function glInt( v : Single) : Single;
14356: Function glIntl( v : Extended) : Extended;
14357: Function glFrac( v : Single) : Single;
14358: Function glFrac1( v : Extended) : Extended;
14359: Function glRound( v : Single) : Integer;
14360: Function glRound64( v : Single) : Int64;
14361: Function glRound64l( v : Extended) : Int64;
14362: Function glTrunc( X : Extended) : Int64
14363: Function glRound( X : Extended) : Int64
14364: Function glFrac( X : Extended) : Extended
14365: Function glCeil( v : Single) : Integer;
14366: Function glCeil64( v : Extended) : Int64;
14367: Function glFloor( v : Single) : Integer;
14368: Function glFloor64( v : Extended) : Int64;
14369: Function glScaleAndRound( i : Integer; var s : Single) : Integer
14370: Function glSign( x : Single) : Integer
14371: Function glIsInRange( const x, a, b : Single) : Boolean;
14372: Function glIsInRangel( const x, a, b : Double) : Boolean;
14373: Function glIsInCube( const p, d : TAffineVector) : Boolean;
14374: Function glIsInCubel( const p, d : TVectorGL) : Boolean;
14375: //Function MinFloat( values : PSingleArray; nbItems : Integer) : Single;
14376: //Function MinFloatl( values : PDoubleArray; nbItems : Integer) : Double;
14377: //Function MinFloat2( values : PExtendedArray; nbItems : Integer) : Extended;
14378: Function glMinFloat3( const v1, v2 : Single) : Single;
14379: Function glMinFloat4( const v : array of Single) : Single;
14380: Function glMinFloat5( const v1, v2 : Double) : Double;
14381: Function glMinFloat6( const v1, v2 : Extended) : Extended;
14382: Function glMinFloat7( const v1, v2, v3 : Single) : Single;
14383: Function glMinFloat8( const v1, v2, v3 : Double) : Double;
14384: Function glMinFloat9( const v1, v2, v3 : Extended) : Extended;
14385: //Function MaxFloat10( values : PSingleArray; nbItems : Integer) : Single;
14386: //Function MaxFloat( values : PDoubleArray; nbItems : Integer) : Double;
14387: //Function MaxFloatl( values : PExtendedArray; nbItems : Integer) : Extended;
14388: Function glMaxFloat2( const v : array of Single) : Single;
14389: Function glMaxFloat3( const v1, v2 : Single) : Single;
14390: Function glMaxFloat4( const v1, v2 : Double) : Double;
14391: Function glMaxFloat5( const v1, v2 : Extended) : Extended;
14392: Function glMaxFloat6( const v1, v2, v3 : Single) : Single;
14393: Function glMaxFloat7( const v1, v2, v3 : Double) : Double;
14394: Function glMaxFloat8( const v1, v2, v3 : Extended) : Extended;
14395: Function glMinInteger9( const v1, v2 : Integer) : Integer;
14396: Function glMinInteger( const v1, v2 : Cardinal) : Cardinal;
14397: Function glMaxInteger( const v1, v2 : Integer) : Integer;

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14398: Function glMaxInteger1( const v1, v2 : Cardinal) : Cardinal;
14399: Function glTriangleArea( const p1, p2, p3 : TAffineVector) : Single;
14400: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer) : Single;
14401: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector) : Single;
14402: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer) : Single;
14403: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single);
14404: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single);
14405: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single);
14406: Procedure glOffsetFloatArray1( var values : array of Single; delta : Single);
14407: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer);
14408: Function glMaxXYZComponent( const v : TVectorGL) : Single;
14409: Function glMaxXYZComponent1( const v : TAffineVector) : single;
14410: Function glMinXYZComponent( const v : TVectorGL) : Single;
14411: Function glMinXYZComponent1( const v : TAffineVector) : single;
14412: Function glMaxAbsXYZComponent( v : TVectorGL) : Single
14413: Function glMinAbsXYZComponent( v : TVectorGL) : Single
14414: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL);
14415: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector);
14416: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL);
14417: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector);
14418: Procedure glSortArrayAscending( var a : array of Extended)
14419: Function glClampValue( const aValue, aMin, aMax : Single) : Single;
14420: Function glClampValue1( const aValue, aMin : Single) : Single;
14421: Function glGeometryOptimizationMode : String
14422: Procedure glBeginFPUOnlySection
14423: Procedure glEndFPUOnlySection
14424: Function glConvertRotation( const Angles : TAffineVector) : TVectorGL
14425: Function glMakeAffineDblVector( var v : array of Double) : TAffineDblVector
14426: Function glMakeDblVector( var v : array of Double) : THomogeneousDblVector
14427: Function glVectorAffineDblToFlt( const v : TAffineDblVector) : TAffineVector
14428: Function glVectorDblToFlt( const v : THomogeneousDblVector) : THomogeneousVector
14429: Function glVectorAffineFltToDbl( const v : TAffineVector) : TAffineDblVector
14430: Function glVectorFltToDbl( const v : TVectorGL) : THomogeneousDblVector
14431: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single) : Boolean
14432: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
14433: Function glTurn( const Matrix : TMatrixGL; angle : Single) : TMatrixGL;
14434: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14435: Function glPitch( const Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
14436: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14437: Function glRoll( const Matrix: TMatrixGL; Angle : Single) : TMatrixGL;
14438: Function glRoll1(const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14439: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single
14440: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const
sphereCenter:TVectorGL;const sphereRadius : Single) : Boolean;
14441: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
const sphereRadius : Single; var i1, i2 : TVectorGL) : Integer;
14442: Function glSphereVisibleRadius( distance, radius : Single) : Single
14443: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL) : TFrustum
14444: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci :
TRenderContextClippingInfo) : Boolean;
14445: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci :
TRenderContextClippingInfo) : Boolean;
14446: Function glIsVolumeClipped2(const min,max:TAffineVector;const rcci : TRenderContextClippingInfo) : Bool;
14447: Function glIsVolumeClipped3(const objPos:TAffineVector;const objRadius:Single;const
Frustum:TFrustum):Bool;
14448: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL) : TMatrixGL
14449: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL) : TMatrixGL
14450: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector) : TMatrixGL
14451: Function glPackRotationMatrix( const mat : TMatrixGL) : TPackedRotationMatrix
14452: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix) : TMatrixGL
14453: 'cPI','Single').setExtended( 3.141592654);
14454: 'cPIdiv180','Single').setExtended( 0.017453292);
14455: 'c180divPI','Single').setExtended( 57.29577951);
14456: 'c2PI','Single').setExtended( 6.283185307);
14457: 'cPIdiv2','Single').setExtended(1.570796326);
14458: 'cPIdiv4','Single').setExtended( 0.785398163);
14459: 'c3PIdiv4','Single').setExtended( 2.35619449);
14460: 'cInv2PI','Single').setExtended( 1 / 6.283185307);
14461: 'cInv360','Single').setExtended( 1 / 360);
14462: 'c180','Single').setExtended( 180);
14463: 'c360','Single').setExtended( 360);
14464: 'cOneHalf','Single').setExtended( 0.5);
14465: 'cLn10','Single').setExtended( 2.302585093);
14466: {'MinSingle','Extended').setExtended( 1.5e-45);
14467: 'MaxSingle','Extended').setExtended( 3.4e+38);
14468: 'MinDouble','Extended').setExtended( 5.0e-324);
14469: 'MaxDouble','Extended').setExtended( 1.7e+308);
14470: 'MinExtended','Extended').setExtended( 3.4e-4932);
14471: 'MaxExtended','Extended').setExtended( 1.1e+4932);
14472: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18);
14473: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18);}
14474: end;
14475:
14476: procedure SIRegister_GLVectorFileObjects(CL: TPSPascalCompiler);
14477: begin
14478:   AddClassN(FindClass('TOBJECT'),'TMeshObjectList
14479:   (FindClass('TOBJECT'),'TFaceGroups
14480:   TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14481:   TMeshAutoCenterings', 'set of TMeshAutoCentering

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14482: TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14483: SIRegister_TBaseMeshObject(CL);
14484: (FindClass('TOBJECT'),'TSkeletonFrameList
14485: TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14486: SIRegister_TSkeletonFrame(CL);
14487: SIRegister_TSkeletonFrameList(CL);
14488: (FindClass('TOBJECT'),'TSkeleton
14489: (FindClass('TOBJECT'),'TSkeletonBone
14490: SIRegister_TSkeletonBoneList(CL);
14491: SIRegister_TSkeletonRootBoneList(CL);
14492: SIRegister_TSkeletonBone(CL);
14493: (FindClass('TOBJECT'),'TSkeletonColliderList
14494: SIRegister_TSkeletonCollider(CL);
14495: SIRegister_TSkeletonColliderList(CL);
14496: (FindClass('TOBJECT'),'TGLBaseMesh
14497: TBlendedLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14498:   + 'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14499:   + 'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14500:   + 'QuaternionList; end
14501: SIRegister_TSkeleton(CL);
14502: TMeshObjectRenderingOption', '( moroGroupByMaterial )
14503: TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14504: SIRegister_TMeshObject(CL);
14505: SIRegister_TMeshObjectList(CL);
14506: //TMeshObjectListClass', 'class of TMeshObjectList
14507: (FindClass('TOBJECT'),'TMeshMorphTargetList
14508: SIRegister_TMeshMorphTarget(CL);
14509: SIRegister_TMeshMorphTargetList(CL);
14510: SIRegister_TMorphableMeshObject(CL);
14511: TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14512: //TVertexBoneWeightArray', '^TVertexBoneWeightArray // will not work
14513: //TVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14514: TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14515: SIRegister_TSkeletonMeshObject(CL);
14516: SIRegister_TFaceGroup(CL);
14517: TFaceGroupMeshMode', '( fgmTriangles, fgmTriangleStrip, fgmFl'
14518:   + 'atTriangles, fgmTriangleFan, fgmQuads )
14519: SIRegister_TFGVertexIndexList(CL);
14520: SIRegister_TFGVertexNormalTexIndexList(CL);
14521: SIRegister_TFGIndexTexCoordList(CL);
14522: SIRegister_TFaceGroups(CL);
14523: TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14524: SIRegister_TVectorFile(CL);
14525: //TVectorFileClass', 'class of TVectorFile
14526: SIRegister_TGLGLSMVectorFile(CL);
14527: SIRegister_TGLBaseMesh(CL);
14528: SIRegister_TGLFreeForm(CL);
14529: TGLActorOption', '( aoSkeletonNormalizeNormals )
14530: TGLActorOptions', 'set of TGLActorOption
14531: 'cDefaultGLActorOptions', 'LongInt'.Value.ts32:= ord(aoSkeletonNormalizeNormals);
14532: (FindClass('TOBJECT'),'TGLActor
14533: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14534: SIRegister_TActorAnimation(CL);
14535: TActorAnimationName', 'String
14536: SIRegister_TActorAnimations(CL);
14537: SIRegister_TGLBaseAnimationController(CL);
14538: SIRegister_TGLAnimationController(CL);
14539: TActorFrameInterpolation', '( afpNone, afpLinear )
14540: TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounc'
14541:   + 'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14542: SIRegister_TGLActor(CL);
14543: SIRegister_TVectorFileFormat(CL);
14544: SIRegister_TVectorFileFormatsList(CL);
14545: (FindClass('TOBJECT'),'EInvalidVectorFile
14546: Function GetVectorFileFormats : TVectorFileFormatsList
14547: Function VectorFileFormatsFilter : String
14548: Function VectorFileFormatsSaveFilter : String
14549: Function VectorFileFormatExtensionByIndex( index : Integer) : String
14550: Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass)
14551: Procedure UnregisterVectorFileClass( aClass : TVectorFileClass)
14552: end;
14553:
14554: procedure SIRegister_AxCtrls(CL: TPSPascalCompiler);
14555: begin
14556:   'Class_DColorPropPage', 'TGUID').SetString( '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}'
14557:   'Class_DFontPropPage', 'TGUID').SetString( '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}'
14558:   'Class_DPicturePropPage', 'TGUID').SetString( '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}'
14559:   'Class_DStringPropPage', 'TGUID').SetString( '{F42D677E-754B-11D0-BDFB-00A024D1875C}'
14560:   SIRegister_TOLEStream(CL);
14561:   (FindClass('TOBJECT'),'TConnectionPoints
14562:   TConnectionKind', '( ckSingle, ckMulti )
14563:   SIRegister_TConnectionPoint(CL);
14564:   SIRegister_TConnectionPoints(CL);
14565:   TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14566:   (FindClass('TOBJECT'),'TActiveXControlFactory
14567:   SIRegister_TActiveXControl(CL);
14568:   //TActiveXControlClass', 'class of TActiveXControl
14569:   SIRegister_TActiveXControlFactory(CL);
14570:   SIRegister_TActiveFormControl(CL);

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14571: SIRegister_TActiveForm(CL);
14572: //TActiveFormClass', 'class of TActiveForm
14573: SIRegister_TActiveFormFactory(CL);
14574: (FindClass('TObject'), 'TPropertyPageImpl
14575: SIRegister_TPropertyPage(CL);
14576: //TPropertyPageClass', 'class of TPropertyPage
14577: SIRegister_TPropertyPageImpl(CL);
14578: SIRegister_TActiveXPropertyPage(CL);
14579: SIRegister_TActiveXPropertyPageFactory(CL);
14580: SIRegister_TCustomAdapter(CL);
14581: SIRegister_TAdapterNotifier(CL);
14582: SIRegister_IFontAccess(CL);
14583: SIRegister_TFontAdapter(CL);
14584: SIRegister_IPictureAccess(CL);
14585: SIRegister_TPictureAdapter(CL);
14586: SIRegister_TOLEGraphic(CL);
14587: SIRegister_TStringsAdapter(CL);
14588: SIRegister_TReflectorWindow(CL);
14589: Procedure EnumDispatchProperties(Dispatch: IDispatch; PropType: TGUID; VTCode: Int; PropList: TStrings);
14590: Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14591: Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14592: Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14593: Procedure SetOlePicture( Picture : TPicture; OlePicture : IPictureDisp)
14594: Procedure GetOleStrings( Strings : TStrings; var OleStrings : IStrings)
14595: Procedure SetOleStrings( Strings : TStrings; OleStrings : IStrings)
14596: Function ParkingWindow : HWND
14597: end;
14598:
14599: procedure SIRegister_synaip(CL: TPSPascalCompiler);
14600: begin
14601: // Tip6Bytes = array [0..15] of Byte;
14602: {binary form of IPv6 address (for string conversion routines)}
14603: // Tip6Words = array [0..7] of Word;
14604: AddTypeS('Tip6Bytes', 'array [0..15] of Byte;');
14605: AddTypeS('Tip6Words', 'array [0..7] of Word;');
14606: AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end;');
14607: AddDelphiFunction('Function synaIsIP( const Value : string) : Boolean;');
14608: Function synaIsIP6( const Value : string) : Boolean;
14609: Function synaIPToID( Host : string) : AnsiString;
14610: Function synaStrToIp6( value : string) : Tip6Bytes;
14611: Function synaIp6ToStr( value : Tip6Bytes) : string;
14612: Function synaStrToIp( value : string) : integer;
14613: Function synaIpToStr( value : integer) : string;
14614: Function synaReverseIP( Value : AnsiString) : AnsiString;
14615: Function synaReverseIP6( Value : AnsiString) : AnsiString;
14616: Function synaExpandIP6( Value : AnsiString) : AnsiString;
14617: Function xStrToIP( const Value : String) : TIPAdr;
14618: Function xIPToStr( const Adresse : TIPAdr) : String;
14619: Function IPToCardinal( const Adresse : TIPAdr) : Cardinal;
14620: Function CardinalToIP( const Value : Cardinal) : TIPAdr;
14621: end;
14622:
14623: procedure SIRegister_synacode(CL: TPSPascalCompiler);
14624: begin
14625: AddTypeS('TSpecials', 'set of Char');
14626: Const('SpecialChar', 'TSpecials').SetSet( '=<>:;,@/?\"_');
14627: Const('URLFullSpecialChar', 'TSpecials').SetSet( ' ;/?:@=&#+');
14628: Const('TableBase64'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/='');
14629: Const('TableBase64mod'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+','=',);
14630: Const('TableUU'('!'#$%&'()*+,-./0123456789;=<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_');
14631: Const('TableXX'(+0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz);
14632: Function DecodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials) : AnsiString;
14633: Function DecodeQuotedPrintable( const Value : AnsiString) : AnsiString;
14634: Function DecodeURL( const Value : AnsiString) : AnsiString;
14635: Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials) : AnsiString;
14636: Function EncodeQuotedPrintable( const Value : AnsiString) : AnsiString;
14637: Function EncodeSafeQuotedPrintable( const Value : AnsiString) : AnsiString;
14638: Function EncodeURLElement( const Value : AnsiString) : AnsiString;
14639: Function DecodeURL( const Value : AnsiString) : AnsiString;
14640: Function Decode4to3( const Value, Table : AnsiString) : AnsiString;
14641: Function Decode4to3Ex( const Value, Table : AnsiString) : AnsiString;
14642: Function Encode3to4( const Value, Table : AnsiString) : AnsiString;
14643: Function synDecodeBase64( const Value : AnsiString) : AnsiString;
14644: Function synEncodeBase64( const Value : AnsiString) : AnsiString;
14645: Function DecodeBase64mod( const Value : AnsiString) : AnsiString;
14646: Function EncodeBase64mod( const Value : AnsiString) : AnsiString;
14647: Function DecodeUU( const Value : AnsiString) : AnsiString;
14648: Function EncodeUU( const Value : AnsiString) : AnsiString;
14649: Function DecodeXX( const Value : AnsiString) : AnsiString;
14650: Function DecodeYEnc( const Value : AnsiString) : AnsiString;
14651: Function UpdateCrc32( Value : Byte; Crc32 : Integer) : Integer;
14652: Function synCrc32( const Value : AnsiString) : Integer;
14653: Function UpdateCrc16( Value : Byte; Crc16 : Word) : Word;
14654: Function Crc16( const Value : AnsiString) : Word;
14655: Function synMD5( const Value : AnsiString) : AnsiString;
14656: Function HMAC_MD5( Text, Key : AnsiString) : AnsiString;
14657: Function MD5LongHash( const Value : AnsiString; Len : integer) : AnsiString;
14658: Function synSHA1( const Value : AnsiString) : AnsiString;
14659: Function HMAC_SHA1( Text, Key : AnsiString) : AnsiString;

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14660:  Function SHA1LongHash( const Value : AnsiString; Len : integer) : AnsiString');
14661:  Function synMD4( const Value : AnsiString) : AnsiString');
14662: end;
14663:
14664: procedure SIRegister_synachar(CL: TPSPascalCompiler);
14665: begin
14666:   AddTypeS('TTimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14667:   +'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14668:   +'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14669:   +'4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14670:   +'_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE,'
14671:   +' C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14672:   +', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14673:   +', NEXTSTEP, ARMSCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14674:   +'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14675:   +'1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14676:   +'2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14677:   +'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14678:   +'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14679:   +' , CP864, CP865, CP869, CP1125 )');
14680:   AddTypeS('TTimeSetChar', 'set of TTimeChar');
14681:   Function CharSetConversion(const Value:AnsiString;CharFrom:TTimeChar;CharTo:TTimeChar):AnsiString;
14682:   Function CharSetConversionEx(const Value:AnsiString;CharFrom:TTimeChar;CharTo:TTimeChar; const
   TransformTable : array of Word) : AnsiString');
14683:   Function CharSetConversionTrans( Value : AnsiString; CharFrom : TTimeChar; CharTo : TTimeChar; const
   TransformTable : array of Word; Translit : Boolean) : AnsiString');
14684:   Function GetCurCP : TTimeChar');
14685:   Function GetCurOEMCP : TTimeChar');
14686:   Function GetCPFromID( Value : AnsiString) : TTimeChar');
14687:   Function GetIDFromCP( Value : TTimeChar) : AnsiString');
14688:   Function NeedCharSetConversion( const Value : AnsiString) : Boolean');
14689:   Function IdealCharSetCoding(const Value:AnsiString;CharFrom:TTimeChar;CharTo:TTimeSetChar):TTimeChar;
14690:   Function GetBOM( Value : TTimeChar) : AnsiString');
14691:   Function StringToWide( const Value : AnsiString) : WideString');
14692:   Function WideToString( const Value : WideString) : AnsiString');
14693: end;
14694:
14695: procedure SIRegister_synamisc(CL: TPSPascalCompiler);
14696: begin
14697:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14698:   Procedure WakeOnLan( MAC, IP : string');
14699:   Function GetDNS : string');
14700:   Function GetIEProxy( protocol : string) : TProxySetting');
14701:   Function GetLocalIPs : string');
14702: end;
14703:
14704:
14705: procedure SIRegister_synaser(CL: TPSPascalCompiler);
14706: begin
14707:   AddConstantN('synCR','Char').SetString( #$0d);
14708:   Const('synLF','Char').SetString( #$0a);
14709:   Const('cSerialChunk','LongInt').SetInt( 8192);
14710:   Const('LockfileDirectory','String').SetString( '/var/lock');
14711:   Const('PortIsClosed','LongInt').SetInt( - 1);
14712:   Const('ErrAlreadyOwned','LongInt').SetInt( 9991);
14713:   Const('ErrAlreadyInUse','LongInt').SetInt( 9992);
14714:   Const('ErrWrongParameter','LongInt').SetInt( 9993);
14715:   Const('ErrPortNotOpen','LongInt').SetInt( 9994);
14716:   Const('ErrNoDeviceAnswer','LongInt').SetInt( 9995);
14717:   Const('ErrMaxBuffer','LongInt').SetInt( 9996);
14718:   Const('ErrTimeout','LongInt').SetInt( 9997);
14719:   Const('ErrNotRead','LongInt').SetInt( 9998);
14720:   Const('ErrFrame','LongInt').SetInt( 9999);
14721:   Const('ErrOverrun','LongInt').SetInt( 10000);
14722:   Const('ErrRxOver','LongInt').SetInt( 10001);
14723:   Const('ErrRxParity','LongInt').SetInt( 10002);
14724:   Const('ErrTxFull','LongInt').SetInt( 10003);
14725:   Const('dcb_Binary','LongWord').SetUInt( $00000001);
14726:   Const('dcb_ParityCheck','LongWord').SetUInt( $00000002);
14727:   Const('dcb_OutxCtsFlow','LongWord').SetUInt( $00000004);
14728:   Const('dcb_OutxDsrFlow','LongWord').SetUInt( $00000008);
14729:   Const('dcb_DtrControlMask','LongWord').SetUInt( $00000030);
14730:   Const('dcb_DtrControlDisable','LongWord').SetUInt( $00000000);
14731:   Const('dcb_DtrControlEnable','LongWord').SetUInt( $00000010);
14732:   Const('dcb_DtrControlHandshake','LongWord').SetUInt( $00000020);
14733:   Const('dcb_DsrSensitivity','LongWord').SetUInt( $00000040);
14734:   Const('dcb_TXContinueOnXoff','LongWord').SetUInt( $00000080);
14735:   Const('dcb_OutX','LongWord').SetUInt( $00000100);
14736:   Const('dcb_InX','LongWord').SetUInt( $00000200);
14737:   Const('dcb_ErrorChar','LongWord').SetUInt( $00000400);
14738:   Const('dcb_NullStrip','LongWord').SetUInt( $00000800);
14739:   Const('dcb_RtsControlMask','LongWord').SetUInt( $00003000);
14740:   Const('dcb_RtsControlDisable','LongWord').SetUInt( $00000000);
14741:   Const('dcb_RtsControlEnable','LongWord').SetUInt( $00001000);
14742:   Const('dcb_RtsControlHandshake','LongWord').SetUInt( $00002000);
14743:   Const('dcb_RtsControlToggle','LongWord').SetUInt( $00003000);
14744:   Const('dcb_AbortOnError','LongWord').SetUInt( $00004000);
14745:   Const('dcb_Reserveds','LongWord').SetUInt( $FFFF8000);
14746:   Const('synSB1','LongInt').SetInt( 0);

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14747: Const('SBlandHalf','LongInt').SetInt( 1);
14748: Const('synSB2','LongInt').SetInt( 2);
14749: Const('synINVALID_HANDLE_VALUE','LongInt').SetInt( THandle ( - 1 ));
14750: Const('CS7fix','LongWord').SetUInt( $0000020);
14751: AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long'
14752:   + 'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par'
14753:   + 'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : '
14754:   + 'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14755: //AddTypeS('PDCB', '^TDCB // will not work');
14756: //Const('MaxRates','LongInt').SetInt( 18);
14757: //Const('MaxRates','LongInt').SetInt( 30);
14758: //Const('MaxRates','LongInt').SetInt( 19);
14759: Const('O_SYNC','LongWord').SetUInt( $0080);
14760: Const('synOK','LongInt').SetInt( 0);
14761: Const('synErr','LongInt').SetInt( integer ( - 1 ));
14762: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
HR_WriteCount, HR_Wait )');
14763: Type('THookSerialStatus',Procedure(Sender: TObject; Reason:THookSerialReason; const Value:string));
14764: SIRegister_ESynaSerError(CL);
14765: SIRegister_TBlockSerial(CL);
14766: Function GetSerialPortNames : string);
14767: end;
14768:
14769: procedure SIRegister_synaicnv(CL: TPSPascalCompiler);
14770: begin
14771: Const('DLLIconvName','String').SetString( 'libiconv.so');
14772: Const('DLLIconvName','String').SetString( 'iconv.dll');
14773: AddTypeS('size_t', 'Cardinal');
14774: AddTypeS('iconv_t', 'Integer');
14775: //AddTypeS('iconv_t', 'Pointer');
14776: AddTypeS('argptr', 'iconv_t');
14777: Function SynaIcnvOpen( const tocode, fromcode : Ansistring) : iconv_t);
14778: Function SynaIcnvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t);
14779: Function SynaIcnvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t);
14780: Function SynaIcnv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer);
14781: Function SynaIcnvClose( var cd : iconv_t) : integer);
14782: Function SynaIcnvCtl( cd : iconv_t; request : integer; argument : argptr) : integer);
14783: Function IsIcnvloaded : Boolean);
14784: Function InitIcnvInterface : Boolean);
14785: Function DestroyIcnvInterface : Boolean);
14786: Const('ICONV_TRIVIALP','LongInt').SetInt( 0);
14787: Const('ICONV_GET_TRANSLITERATE','LongInt').SetInt( 1);
14788: Const('ICONV_SET_TRANSLITERATE','LongInt').SetInt( 2);
14789: Const('ICONV_GET_DISCARD_ILSEQ','LongInt').SetInt( 3);
14790: Const('ICONV_SET_DISCARD_ILSEQ','LongInt').SetInt( 4);
14791: end;
14792:
14793: procedure SIRegister_pingsend(CL: TPSPascalCompiler);
14794: begin
14795: Const 'ICMP_ECHO','LongInt').SetInt( 8);
14796: Const('ICMP_ECHOREPLY','LongInt').SetInt( 0);
14797: Const('ICMP_UNREACH','LongInt').SetInt( 3);
14798: Const('ICMP_TIME_EXCEEDED','LongInt').SetInt( 11);
14799: Const('ICMP6_ECHO','LongInt').SetInt( 128);
14800: Const('ICMP6_ECHOREPLY','LongInt').SetInt( 129);
14801: Const('ICMP6_UNREACH','LongInt').SetInt( 1);
14802: Const('ICMP6_TIME_EXCEEDED','LongInt').SetInt( 3);
14803: AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOt'
14804:   + 'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14805: SIRegister_TPINGSend(CL);
14806: Function PingHost( const Host : string) : Integer);
14807: Function TraceRouteHost( const Host : string) : string);
14808: end;
14809:
14810: procedure SIRegister_asnluutil(CL: TPSPascalCompiler);
14811: begin
14812: AddConstantN('synASN1_BOOL','LongWord').SetUInt( $01);
14813: Const('synASN1_INT','LongWord').SetUInt( $02);
14814: Const('synASN1_OCTSTR','LongWord').SetUInt( $04);
14815: Const('synASN1_NULL','LongWord').SetUInt( $05);
14816: Const('synASN1_OBJID','LongWord').SetUInt( $06);
14817: Const('synASN1_ENUM','LongWord').SetUInt( $0a);
14818: Const('synASN1_SEQ','LongWord').SetUInt( $30);
14819: Const('synASN1_SETOF','LongWord').SetUInt( $31);
14820: Const('synASN1_IPADDR','LongWord').SetUInt( $40);
14821: Const('synASN1_COUNTER','LongWord').SetUInt( $41);
14822: Const('synASN1_GAUGE','LongWord').SetUInt( $42);
14823: Const('synASN1_TIMETICKS','LongWord').SetUInt( $43);
14824: Const('synASN1_OPAQUE','LongWord').SetUInt( $44);
14825: Function synASNEncOIDItem( Value : Integer) : AnsiString);
14826: Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString) : Integer);
14827: Function synASNEncLen( Len : Integer) : AnsiString);
14828: Function synASNDecLen( var Start : Integer; const Buffer : AnsiString) : Integer);
14829: Function synASNEncInt( Value : Integer) : AnsiString);
14830: Function synASNEncUInt( Value : Integer) : AnsiString);
14831: Function synASNObject( const Data : AnsiString; ASNType : Integer) : AnsiString);
14832: Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14833: Function synMibToId( Mib : String) : AnsiString);
14834: Function synIdToMib( const Id : AnsiString) : String);

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14835: Function synIntMibToStr( const Value : AnsiString) : AnsiString);
14836: Function ASNdump( const Value : AnsiString) : AnsiString);
14837: Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings): Boolean);
14838: Function LDAPResultDump( const Value : TLdapResultList) : AnsiString);
14839: end;
14840:
14841: procedure SIRegister_ldapsend(CL: TPSPascalCompiler);
14842: begin
14843:   Const('cLDAPProtocol','String').SetString( '389');
14844:   Const('LDAP_ASN1_BIND_REQUEST','LongWord').SetUInt( $60);
14845:   Const('LDAP_ASN1_BIND_RESPONSE','LongWord').SetUInt( $61);
14846:   Const('LDAP_ASN1_UNBIND_REQUEST','LongWord').SetUInt( $42);
14847:   Const('LDAP_ASN1_SEARCH_REQUEST','LongWord').SetUInt( $63);
14848:   Const('LDAP_ASN1_SEARCH_ENTRY','LongWord').SetUInt( $64);
14849:   Const('LDAP_ASN1_SEARCH_DONE','LongWord').SetUInt( $65);
14850:   Const('LDAP_ASN1_SEARCH_REFERENCE','LongWord').SetUInt( $73);
14851:   Const('LDAP_ASN1_MODIFY_REQUEST','LongWord').SetUInt( $66);
14852:   Const('LDAP_ASN1_MODIFY_RESPONSE','LongWord').SetUInt( $67);
14853:   Const('LDAP_ASN1_ADD_REQUEST','LongWord').SetUInt( $68);
14854:   Const('LDAP_ASN1_ADD_RESPONSE','LongWord').SetUInt( $69);
14855:   Const('LDAP_ASN1_DEL_REQUEST','LongWord').SetUInt( $4A);
14856:   Const('LDAP_ASN1_DEL_RESPONSE','LongWord').SetUInt( $6B);
14857:   Const('LDAP_ASN1_MODIFYDN_REQUEST','LongWord').SetUInt( $6C);
14858:   Const('LDAP_ASN1_MODIFYDN_RESPONSE','LongWord').SetUInt( $6D);
14859:   Const('LDAP_ASN1_COMPARE_REQUEST','LongWord').SetUInt( $6E);
14860:   Const('LDAP_ASN1_COMPARE_RESPONSE','LongWord').SetUInt( $6F);
14861:   Const('LDAP_ASN1_ABANDON_REQUEST','LongWord').SetUInt( $70);
14862:   Const('LDAP_ASN1_EXT_REQUEST','LongWord').SetUInt( $77);
14863:   Const('LDAP_ASN1_EXT_RESPONSE','LongWord').SetUInt( $78);
14864:   SIRegister_TLDAPAttribute(CL);
14865:   SIRegister_TLDAPAttributeList(CL);
14866:   SIRegister_TLDAPResult(CL);
14867:   SIRegister_TLDAPResultList(CL);
14868:   AddTypeS('TLdapModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14869:   AddTypeS('TLdapSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14870:   AddTypeS('TLdapSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14871:   SIRegister_TLDAPSend(CL);
14872: Function LDAPResultDump( const Value : TLdapResultList) : AnsiString);
14873: end;
14874:
14875:
14876: procedure SIRegister_slogsend(CL: TPSPascalCompiler);
14877: begin
14878:   Const('cSysLogProtocol','String').SetString( '514');
14879:   Const('FCL_Kernel','LongInt').SetInt( 0);
14880:   Const('FCL_UserLevel','LongInt').SetInt( 1);
14881:   Const('FCL_MailSystem','LongInt').SetInt( 2);
14882:   Const('FCL_System','LongInt').SetInt( 3);
14883:   Const('FCL_Security','LongInt').SetInt( 4);
14884:   Const('FCL_Syslogd','LongInt').SetInt( 5);
14885:   Const('FCL_Printer','LongInt').SetInt( 6);
14886:   Const('FCL_News','LongInt').SetInt( 7);
14887:   Const('FCL_UUCP','LongInt').SetInt( 8);
14888:   Const('FCL_Clock','LongInt').SetInt( 9);
14889:   Const('FCL_Authorization','LongInt').SetInt( 10);
14890:   Const('FCL_FTP','LongInt').SetInt( 11);
14891:   Const('FCL_NTP','LongInt').SetInt( 12);
14892:   Const('FCL_LogAudit','LongInt').SetInt( 13);
14893:   Const('FCL_LogAlert','LongInt').SetInt( 14);
14894:   Const('FCL_Time','LongInt').SetInt( 15);
14895:   Const('FCL_Local0','LongInt').SetInt( 16);
14896:   Const('FCL_Local1','LongInt').SetInt( 17);
14897:   Const('FCL_Local2','LongInt').SetInt( 18);
14898:   Const('FCL_Local3','LongInt').SetInt( 19);
14899:   Const('FCL_Local4','LongInt').SetInt( 20);
14900:   Const('FCL_Local5','LongInt').SetInt( 21);
14901:   Const('FCL_Local6','LongInt').SetInt( 22);
14902:   Const('FCL_Local7','LongInt').SetInt( 23);
14903:   AddTypeS('TSyslogSeverity', '( Emergency, Alert, Critical, Error, Warning,
14904:   + ' Notice, Info, Debug )');
14905:   SIRegister_TSyslogMessage(CL);
14906:   SIRegister_TSyslogSend(CL);
14907: Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const
Content:string):Boolean;
14908: end;
14909:
14910:
14911: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
14912: begin
14913:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
14914:   SIRegister_TMessHeader(CL);
14915:   //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
14916:   SIRegister_TMimeMess(CL);
14917: end;
14918:
14919: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
14920: begin
14921:   (FindClass('TOBJECT'),'MimePart');
14922:   AddTypeS('THookWalkPart', 'Procedure ( const Sender : TMimePart)');

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14923:   AddTypeS('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
14924:   AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
14925:   SIRegister_TMimePart(CL);
14926:   Const('MaxMimeType','LongInt').SetInt( 25);
14927:   Function GenerateBoundary : string;
14928: end;
14929:
14930: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
14931: begin
14932:   Function InlineDecode( const Value : string; CP : TMimeChar) : string;
14933:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string;
14934:   Function NeedInline( const Value : AnsiString) : boolean;
14935:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string;
14936:   Function InlineCode( const Value : string) : string;
14937:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string;
14938:   Function InlineEmail( const Value : string) : string;
14939: end;
14940:
14941: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
14942: begin
14943:   Const('cFtpProtocol','String').SetString( '21');
14944:   Const('cFtpDataProtocol','String').SetString( '20');
14945:   Const('FTP_OK','LongInt').SetInt( 255);
14946:   Const('FTP_ERR','LongInt').SetInt( 254);
14947:   AddTypeS('TFTPStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
14948:   SIRegister_TFTPListRec(CL);
14949:   SIRegister_TFTPList(CL);
14950:   SIRegister_TFTPSend(CL);
14951:   Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean;
14952:   Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean;
14953:   Function FtpInterServerTransfer(const FromIP,FromPort, FromFile, FromUser, FromPass : string; const ToIP,
ToPort, ToFile, ToUser, ToPass : string) : Boolean;
14954: end;
14955:
14956: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
14957: begin
14958:   Const('cHttpProtocol','String').SetString( '80');
14959:   AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
14960:   SIRegister_THTTPSend(CL);
14961:   Function HttpGetText( const URL : string; const Response : TStrings) : Boolean;
14962:   Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean;
14963:   Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean;
14964:   Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean;
14965:   Function HttpPostFile(const URL,FieldName,FileName:string;const Data:TStream;const
ResultData:TStrings):Bool;
14966: end;
14967:
14968: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
14969: begin
14970:   Const('cSmtpProtocol','String').SetString( '25');
14971:   SIRegister_TSMTPSend(CL);
14972:   Function SendToRaw(const MailFrom,MailTo,SMTPHost:string;const MailData:TStrings;const Username,
Passw:string):Bool;
14973:   Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
14974:   Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Username, Password : string):Boolean;
14975: end;
14976:
14977: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
14978: begin
14979:   Const('cSnmpProtocol','String').SetString( '161');
14980:   Const('cSnmpTrapProtocol','String').SetString( '162');
14981:   Const('SNMP_V1','LongInt').SetInt( 0);
14982:   Const('SNMP_V2C','LongInt').SetInt( 1);
14983:   Const('SNMP_V3','LongInt').SetInt( 3);
14984:   Const('PDUGetRequest','LongWord').SetUInt( $A0);
14985:   Const('PDUGetNextRequest','LongWord').SetUInt( $A1);
14986:   Const('PDUGetResponse','LongWord').SetUInt( $A2);
14987:   Const('PDUSetRequest','LongWord').SetUInt( $A3);
14988:   Const('PDUTrap','LongWord').SetUInt( $A4);
14989:   Const('PDUGetBulkRequest','LongWord').SetUInt( $A5);
14990:   Const('PDUInformRequest','LongWord').SetUInt( $A6);
14991:   Const('PDUTrapV2','LongWord').SetUInt( $A7);
14992:   Const('PDUREport','LongWord').SetUInt( $A8);
14993:   Const('ENoError','LongInt').SetInt( 0);
14994:   Const('ETooBig','LongInt').SetInt( 1);
14995:   Const('ENoSuchName','LongInt').SetInt( 2);
14996:   Const('EBadValue','LongInt').SetInt( 3);
14997:   Const('EReadOnly','LongInt').SetInt( 4);
14998:   Const('EGenErr','LongInt').SetInt( 5);
14999:   Const('ENoAccess','LongInt').SetInt( 6);
15000:   Const('EWrongType','LongInt').SetInt( 7);
15001:   Const('EWrongLength','LongInt').SetInt( 8);
15002:   Const('EWrongEncoding','LongInt').SetInt( 9);
15003:   Const('EWrongValue','LongInt').SetInt( 10);
15004:   Const('ENoCreation','LongInt').SetInt( 11);
15005:   Const('EInconsistentValue','LongInt').SetInt( 12);
15006:   Const('EResourceUnavailable','LongInt').SetInt( 13);
15007:   Const('ECommitFailed','LongInt').SetInt( 14);

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15008: Const('EUndoFailed','LongInt').SetInt( 15);
15009: Const('EAuthorizationError','LongInt').SetInt( 16);
15010: Const('ENotWritable','LongInt').SetInt( 17);
15011: Const('EInconsistentName','LongInt').SetInt( 18);
15012: AddTypeS('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15013: AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15014: AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15015: SIRegister_TSNMPPMib(CL);
15016: AddTypeS('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer; '
15017:   +'EngineTime : integer; EngineStamp : Cardinal; end');
15018: SIRegister_TSNMPRec(CL);
15019: SIRegister_TSNMPSend(CL);
15020: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString) : Boolean';
15021: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer) : Boolean';
15022: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15023: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings): Boolean;
15024: Function SNMPGetTableElement(const BaseOID,RowID,ColID,Community,SNMPHost:AnsiStr;var Value:AnsiStr):
Boolean;
15025: Function SendTrap(const Dest,Source, Enterprise, Community : AnsiString; Generic, Specific, Seconds :
Integer; const MIBName, MIBValue : AnsiString; MIBtype : Integer) : Integer';
15026: Function RecvTrap( var Dest, Source, Enterprise, Community : AnsiString; var Generic, Specific, Seconds :
Integer; const MIBName, MIBValue : TStringList) : Integer';
15027: end;
15028:
15029: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15030: begin
15031:   Function GetDomainName2: AnsiString';
15032:   Function GetDomainController( Domain : AnsiString) : AnsiString';
15033:   Function GetDomainUsers( Controller : AnsiString) : AnsiString';
15034:   Function GetDomainGroups( Controller : AnsiString) : AnsiString';
15035:   Function GetDateTime( Controller : AnsiString) : TDateTime';
15036:   Function GetFullName2( Controller, UserID : AnsiString) : AnsiString';
15037: end;
15038:
15039: procedure SIRegister_wwSystem(CL: TPSPascalCompiler);
15040: begin
15041:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15042:   TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM);
15043:   Function wwStrToDate( const S : string) : boolean';
15044:   Function wwStrToTime( const S : string) : boolean';
15045:   Function wwStrToDateTime( const S : string) : boolean';
15046:   Function wwStrToTimeVal( const S : string) : TDateTime';
15047:   Function wwStrToDateVal( const S : string) : TDateTime';
15048:   Function wwStrToDateTimeVal( const S : string) : TDateTime';
15049:   Function wwStrToInt( const S : string) : boolean';
15050:   Function wwStrToFloat( const S : string) : boolean';
15051:   Function wwGetDateOrder( const DateFormat : string) : TwwDateOrder';
15052:   Function wwNextDay( Year, Month, Day : Word) : integer';
15053:   Function wwPriorDay( Year, Month, Day : Word) : integer';
15054:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime) : Boolean';
15055:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime) : Boolean';
15056:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15057:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string) : TwwDateTimeSelection';
15058:   Function wwScanDate( const S : string; var Date : TDateTime) : Boolean';
15059:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer) : Boolean';
15060:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool;
15061:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean';
15062: end;
15063:
15064: unit uPSI_Themes;
15065: Function ThemeServices : TThemeServices';
15066: Function ThemeControl( AControl : TControl) : Boolean';
15067: Function UnthemedDesigner( AControl : TControl) : Boolean';
15068: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15069: begin
15070:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String';
15071: end;
15072: unit uPSC_menus;
15073: Function StripHotkey( const Text : string) : string';
15074: Function GetHotkey( const Text : string) : string';
15075: Function AnsiSameCaption( const Text1, Text2 : string) : Boolean';
15076: Function IsAltGRPressed : boolean';
15077:
15078: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15079: begin
15080:   TCommandEvent', 'Procedure(Thread:TidPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15081:   SIRegister_TidIMAP4Server(CL);
15082: end;
15083:
15084: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15085: begin
15086:   'HASH_SIZE','LongInt').SetInt( 256);
15087:   CL.FindClass('TOBJECT'),'EVariantSymbolTable');
15088:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15089:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15090:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15091:     +' : Integer; Value : Variant; end');
15092:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15093:   SIRegister_TVariantSymbolTable(CL);

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15094: end;
15095:
15096: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15097: begin
15098:   SIRegister_TThreadLocalVariables(CL);
15099:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar';
15100:   //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD';
15101:   Function ThreadLocals : TThreadLocalVariables';
15102:   Procedure WriteDebug( sz : String );
15103:   CL.AddConstantN('UDF_SUCCESS','LongInt').SetInt( 0);
15104:   'UDF_FAILURE','LongInt').SetInt( 1);
15105:   'cSignificantlyLarger','LongInt').SetInt( 1024 * 4);
15106:   CL.AddTypeS('mTByteArray', 'array of byte');
15107:   function ChangeOEFFFromBytes(bFile:mTByteArray):Boolean;
15108:   function ChangeOEFFFromFile(sFile:string; sDestFile:string):Boolean;
15109:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTarget: string);
15110:   function IsNetworkConnected: Boolean;
15111:   function IsInternetConnected: Boolean;
15112:   function IsCOMConnected: Boolean;
15113:   function IsNetworkOn: Boolean;
15114:   function IsInternetOn: Boolean;
15115:   function IsCOMOn: Boolean;
15116:   Function SetTimer( hWnd : HWND; nIDEvent, uElapse : UINT; lpTimerFunc : TFNTimerProc ) : UINT';
15117:   Function KillTimer( hWnd : HWND; uIDEvent : UINT ) : BOOL';
15118:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15119:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15120:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15121:   Function GetMenu( hWnd : HWND ) : HMENU';
15122:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15123: end;
15124:
15125: procedure SIRegister_SockTransport(CL: TPSPascalCompiler);
15126: begin
15127:   SIRegister_IDataBlock(CL);
15128:   SIRegister_ISendDataBlock(CL);
15129:   SIRegister_ITransport(CL);
15130:   SIRegister_TDataBlock(CL);
15131:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15132:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15133:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15134:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15135:   SIRegister_TCustomDataBlockInterpreter(CL);
15136:   SIRegister_TSendDataBlock(CL);
15137:   'CallSig','LongWord').SetUInt( $D800);
15138:   'ResultSig','LongWord').SetUInt( $D400);
15139:   'asMask','LongWord').SetUInt( $00FF);
15140:   CL.AddClassN(CL.FindClass('TOBJECT'),'EInterpreterError');
15141:   CL.AddClassN(CL.FindClass('TOBJECT'),'ESocketConnectionError');
15142:   Procedure CheckSignature( Sig : Integer );
15143: end;
15144:
15145: procedure SIRegister_WinInet(CL: TPSPascalCompiler);
15146: begin
15147:   //CL.AddTypeS('HINTERNET', '__Pointer');
15148:   CL.AddTypeS('HINTERNET1', 'THANDLE');
15149:   CL.AddTypeS('HINTERNET', 'Integer');
15150:   CL.AddTypeS('HINTERNET2', '__Pointer');
15151:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15152:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15153:   CL.AddTypeS('INTERNET_PORT', 'Word');
15154:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15155:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15156:   Function InternetTimeFromSystemTime(const pst:TSystemTime; dwRFC:DWORD; lpszTime:LPSTR;
cbTime:DWORD):BOOL';
15157:   'INTERNET_RFC1123_FORMAT','LongInt').SetInt( 0);
15158:   'INTERNET_RFC1123_BUFSIZE','LongInt').SetInt( 30);
15159:   Function InternetCrackUrl(lpszUrl:PChar; dwUrlLength,dwFlags:DWORD; var
lpUrlComponents:TURLComponents):BOOL;
15160:   Function InternetCreateUrl( var lpUrlComponents : TURLComponents; dwFlags : DWORD; lpszUrl : PChar; var
dwUrlLength : DWORD ) : BOOL';
15161:   Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';
15162:   Function InternetConnect( hInet : HINTERNET; lpszServerName : PChar; nServerPort : INTERNET_PORT;
lpszUsername : PChar; lpszPassword : PChar; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD ) :
HINTERNET';
15163:   Function InternetOpenUrl( hInet : HINTERNET; lpszUrl : PChar; lpszHeaders : PChar; dwHeadersLength :
DWORD; dwFlags : DWORD; dwContext : DWORD ) : HINTERNET';
15164:   Function InternetQueryDataAvailable( hFile : HINTERNET; var lpdwNumberOfBytesAvailable : DWORD; dwFlags,
dwContext : DWORD ) : BOOL';
15165:   Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15166:   Function
InternetDial(hWndParent:HWND;lpszConnect:PChar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD): DWORD;
15167:   Function InternetHangUp( dwConnection : DWORD; dwReserved : DWORD ) : DWORD';
15168:   Function InternetGoOnline( lpszURL : pchar; hWndParent : HWND; dwFlags : DWORD ) : BOOL';
15169:   Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15170:   Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15171:   Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15172:   Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL';
15173:   Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
lpdwBufferLength : Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';

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15174: Function
InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;lpszPassword:PChar;dwContext:DWORD):HINTERNET;
15175: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumOfBytesAvail:DWORD;dwFlgs,
dwContext:DWORD) : BOOL;
15176: Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData :
TWin32FindData; dwFlags : DWORD; dwContext : DWORD) : HINTERNET';
15177: Function WftpGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD) : BOOL';
15178: Function
WftpPutFile(hConnect:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwContext:DWORD):BOOL;
15179: Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar ) : BOOL';
15180: Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15181: Function
FtpOpenFile(hConnect:HINTER;lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15182: Function FtpCreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15183: Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15184: Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar ) : BOOL';
15185: Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15186: Function
FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpszCommand:PChar;dwContext:DWORD):BOOL;
15187: Function IS_GOPHER_FILE( GopherType : DWORD) : BOOL';
15188: Function IS_GOPHER_DIRECTORY( GopherType : DWORD) : BOOL';
15189: Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD) : BOOL';
15190: Function IS_GOPHER_ERROR( GopherType : DWORD) : BOOL';
15191: Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD) : BOOL';
15192: Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD) : BOOL';
15193: Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD) : BOOL';
15194: Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD) : BOOL';
15195: Function IS_GOPHER_ASK( GopherType : DWORD) : BOOL';
15196: Function IS_GOPHER_PLUS( GopherType : DWORD) : BOOL';
15197: Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD) : BOOL';
15198: Function
GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString :
PChar; dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15199: Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15200: Function
GopherOpenFile(hConect:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15201: Function HttpOpenRequest( hConnect : HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
PChar; lpszReferrer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext : DWORD) : HINTERNET';
15202: Function
HttpAddRequestHeaders(hReq:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15203: Function HttpSendRequest(hRequest: HINTERNET; lpszHeaders : PChar; dwHeadersLength : DWORD; lpOptional :
TObject; dwOptionalLength:DWORD):BOOL;
15204: Function InternetGetCookie(lpszUrl,lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15205: Function InternetAttemptConnect( dwReserved : DWORD) : DWORD';
15206: Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD) : BOOL';
15207: Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15208: Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPSTR; bPost : BOOL) : DWORD';
15209: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject) : Int64';
15210: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject) : Bool';
15211: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var
lpFirstCacheEntryInfo:TInternetCacheEntryInfo; var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15212: Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var
lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15213: Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15214: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15215: Function
InternetDial(hWndParent:HWND;lpszConnect:PChar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15216: Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD) : BOOL';
15217: end;
15218:
15219: procedure SIRegister_Wwstr(CL: TPSPascalCompiler);
15220: begin
15221:   AddTypes('strCharSet', 'set of char');
15222:   TwwGetWordOption','(wwgwSkipLeadingBlanks, wwgwQuotesAsWords,wwgwStripQuotes , wwgwSpacesInWords);
15223:   AddTypes('TwwGetWordOptions', 'set of TwwGetWordOption');
15224:   Procedure strBreakApart( s : string; delimiter : string; parts : TStrings);
15225:   Function strGetToken( s : string; delimiter : string; var APos : integer) : string';
15226:   Procedure strStripPreceding( var s : string; delimiter : strCharSet);
15227:   Procedure strStripTrailing( var s : string; delimiter : strCharSet);
15228:   Procedure strStripWhiteSpace( var s : string);
15229:   Function strRemoveChar( str : string; removeChar : char) : string';
15230:   Function wwstrReplaceChar( str : string; removeChar, replaceChar : char) : string';
15231:   Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string) : string';
15232:   Function wwEqualStr( s1, s2 : string) : boolean';
15233:   Function strCount( s : string; delimiter : char) : integer';
15234:   Function strWhiteSpace : strCharSet';
15235:   Function wwExtractFileNameOnly( const FileName : string) : string';
15236:   Function wwGetWord(s:string; var APos:integer;Options:TwwGetWordOptions;DelimSet:strCharSet):string;
15237:   Function strTrailing( s : string; delimiter : char) : string';
15238:   Function strPreceding( s : string; delimiter : char) : string';
15239:   Function wwstrReplace( s, Find, Replace : string) : string';
15240: end;
15241:
15242: procedure SIRegister_DataBkr(CL: TPSPascalCompiler);
15243: begin
15244:   SIRegister_TRemoteDataModule(CL);
15245:   SIRegister_TCRremoteDataModule(CL);

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15246: Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean);
15247: Procedure UnregisterPooled( const ClassID : string);
15248: Procedure EnableSocketTransport( const ClassID : string);
15249: Procedure DisableSocketTransport( const ClassID : string);
15250: Procedure EnableWebTransport( const ClassID : string);
15251: Procedure DisableWebTransport( const ClassID : string);
15252: end;
15253:
15254: procedure SIRegister_Mathbox(CL: TPSPascalCompiler);
15255: begin
15256:   Function mxArcCos( x : Real) : Real;
15257:   Function mxArcSin( x : Real) : Real;
15258:   Function Comp2Str( N : Comp) : String;
15259:   Function Int2StrPad0( N : LongInt; Len : Integer) : String;
15260:   Function Int2Str( N : LongInt) : String;
15261:   Function mxIsEqual( R1, R2 : Double) : Boolean;
15262:   Function LogXY( x, y : Real) : Real;
15263:   Function Pennies2Dollars( C : Comp) : String;
15264:   Function mxPower( X : Integer; Y : Integer) : Real;
15265:   Function Real2Str( N : Real; Width, Places : integer) : String;
15266:   Function mxStr2Comp( MyString : string) : Comp;
15267:   Function mxStr2Pennies( S : String) : Comp;
15268:   Function Str2Real( MyString : string) : Real;
15269:   Function XToTheY( x, y : Real) : Real;
15270: end;
15271:
15272: Functions_max hex in the box maXbox
15273: functionslist.txt
15274: FunctionsList1 3.9.9.86/88/91/92/94
15275:
15276: *****
15277: Procedure
15278: PROCEDURE SIZE 7507 7401 6792 6310 5971 4438 3797 3600
15279: Procedure *****Now the Procedure list*****
15280: Procedure ( ACol, ARow : Integer; Items : TStringList)
15281: Procedure ( Agg : TAggregate)
15282: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
15283: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
15284: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
15285: Procedure ( ASender : TObject; const ABytes : Integer)
15286: Procedure ( ASender : TObject; VStream : TStream)
15287: Procedure ( AThread : TIdThread)
15288: Procedure ( AWebModule : TComponent)
15289: Procedure ( Column : TColumn)
15290: Procedure ( const AUsername : String; const APassword : String; AAuthenticationResult : Boolean)
15291: Procedure ( const iStart : integer; const sText : string)
15292: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
15293: Procedure ( Database : TDatabase; LoginParams : TStringList)
15294: Procedure (DataSet:TCustomClientDataSet;E:EReconcileError;UpdateKind:TUpdateKind;var Action:
TReconcileAction)
15295: Procedure ( DATASET : TDATASET)
15296: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction)
15297: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATASET_ACTION)
15298: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
15299: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
15300: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)
15301: Procedure ( Done : Integer)
15302: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
15303: Procedure (HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
15304: Procedure
(HeaderControl:TCustomHeaderControl;Section:THeaderSection;Width:Integer;State:TSectionTrackState)
15305: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
15306: Procedure (HeaderControl:THeaderControl;Section:THeaderSection; const Rect:TRect; Pressed : Boolean)
15307: Procedure (HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
15308: Procedure (Sender: TCustomListView;const ARect: TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
15309: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
15310: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState)
15311: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
15312: Procedure ( SENDER : TFIELD; const TEXT : String)
15313: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : BOOLEAN)
15314: Procedure ( Sender : TIdTelnet; const Buffer : String)
15315: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
15316: Procedure ( SENDER : TOBJECT; ACANVAS : TCanvas; ARECT : TRect; SELECTED : BOOLEAN)
15317: Procedure ( SENDER : TOBJECT; ACANVAS : TCanvas; ARECT : TRect; STATE : TOWNERDRAWSTATE)
15318: Procedure ( SENDER : TOBJECT; ACANVAS : TCanvas; var WIDTH, HEIGHT : INTEGER)
15319: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)
15320: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
15321: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
15322: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string)
15323: Procedure ( Sender : TObject; Button : TMPBtnType)
15324: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
15325: Procedure ( Sender : TObject; Button : TUDBtnType)
15326: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
15327: Procedure ( Sender : TObject; ClientSocket: TServerClientWinSocket; var SocketThread : TServerClientThread)
15328: Procedure ( Sender : TObject; Column : TListColumn)
15329: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
15330: Procedure ( Sender : TObject; Connecting : Boolean)
15331: Procedure (Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var
DoneDraw:Bool

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15332: Procedure (Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
15333: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
15334: Procedure (Sender: TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
15335: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
15336: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
15337: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
15338: Procedure ( Sender : TObject; Index : Longint)
15339: Procedure ( Sender : TObject; Item : TListItem)
15340: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
15341: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
15342: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
15343: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
15344: Procedure ( Sender : TObject; Item : TListItem; var S : string)
15345: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
15346: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
15347: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
15348: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
15349: Procedure ( Sender : TObject; Node : TTreeNode)
15350: Procedure ( Sender : TObject; Node : TTreeNode; var AllowChange : Boolean)
15351: Procedure ( Sender : TObject; Node : TTreeNode; var AllowCollapse : Boolean)
15352: Procedure ( Sender : TObject; Node : TTreeNode; var AllowEdit : Boolean)
15353: Procedure ( Sender : TObject; Node : TTreeNode; var AllowExpansion : Boolean)
15354: Procedure ( Sender : TObject; Node : TTreeNode; var S : string)
15355: Procedure ( Sender : TObject; Node1, Node2 : TTreeNode; Data : Integer; var Compare : Integer)
15356: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
15357: Procedure ( Sender : TObject; Rect : TRect)
15358: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
15359: Procedure (Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
15360: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
15361: Procedure (Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
15362: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
15363: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
15364: Procedure ( SENDER : TObject; SOURCE : TMENUIITEM; REBUILD : BOOLEAN)
15365: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
15366: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
15367: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
15368: Procedure ( Sender : TObject; Thread : TServerClientThread)
15369: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
15370: Procedure ( Sender : TObject; Username, Password : string)
15371: Procedure ( Sender : TObject; var AllowChange : Boolean)
15372: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
15373: Procedure ( Sender : TObject; var Caption : string; var Alignment : THTMLCaptionAlignment)
15374: Procedure ( Sender : TObject; var Continue : Boolean)
15375: Procedure (Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMethod:TIdHTTPMethod)
15376: Procedure ( Sender : TObject; var Username : string)
15377: Procedure ( Sender : TObject; Wnd : HWND)
15378: Procedure ( Sender : TToolBar; Button : TToolButton)
15379: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
15380: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
15381: Procedure ( Sender : TToolBar; Index : Integer; var Allow : Boolean)
15382: Procedure ( Sender : TToolBar; Index : Integer; var Button : TToolButton)
15383: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
15384: Procedure ( StatusBar : TStatusBar; Panel : TStatusPanel; const Rect : TRect)
15385: Procedure (var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
15386: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
15387: Procedure (Sender: TObject)
15388: procedure (Sender: TObject; var Done: Boolean)
15389: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
15390: procedure _T(Name: tbtString; v: Variant);
15391: Procedure AbandonSignalHandler( RtlSigNum : Integer)
15392: Procedure Abort
15393: Procedure About1Click( Sender : TObject)
15394: Procedure Accept( Socket : TSocket)
15395: Procedure AESSymmetricExecute(const plaintext, ciphertext, password: string)
15396: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
15397: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
15398: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
15399: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
15400: Procedure Add( Addendl, Addend2 : TMyBigInt)
15401: Procedure ADD( const AKEY, AVALUE : VARIANT)
15402: Procedure Add( const Key : string; Value : Integer)
15403: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEOPTIONS)
15404: Procedure ADD( FIELD : TFIELD)
15405: Procedure ADD( ITEM : TMENUIITEM)
15406: Procedure ADD( POPUP : TPOPUPMENU)
15407: Procedure AddCharacters( xCharacters : TCharSet)
15408: Procedure AddDriver( const Name : string; List : TStringList)
15409: Procedure AddImages( Value : TCustomImageList)
15410: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
15411: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
15412: Procedure AddLoader( Loader : TBitmapLoader)
15413: Procedure ADDPARAM( VALUE : TPARAM)
15414: Procedure AddPassword( const Password : string)
15415: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
15416: Procedure AddState( oState : TniRegularExpressionState)
15417: Procedure AddStrings( Strings : TStringList);
15418: procedure AddStrings(Strings:TStrings);
15419: Procedure AddStrings1( Strings : TWideStrings);
15420: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)

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15421: Procedure AddToRecentDocs( const Filename : string)
15422: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharSet)
15423: Procedure AllFunctionsList1Click( Sender : TObject)
15424: procedure AllObjectsList1Click(Sender: TObject);
15425: Procedure Allocate( AAllocateBytes : Integer)
15426: procedure AllResourceList1Click(Sender: TObject);
15427: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
15428: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
15429: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
15430: Procedure AnsiFree( var s : AnsiString)
15431: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
15432: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
15433: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
15434: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
15435: Procedure AntiFreeze;
15436: Procedure APPEND
15437: Procedure Append( const S : WideString)
15438: procedure Append(S: string);
15439: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
15440: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
15441: Procedure AppendChunk( Val : OleVariant)
15442: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
15443: Procedure AppendStr( var Dest : string; S : string)
15444: Procedure AppendString( var VBytes : TIdBytes; const AStr : string; ALength : Integer)
15445: Procedure ApplyRange
15446: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
15447: Procedure Arrange( Code : TListArrangement)
15448: procedure Assert(expr : Boolean; const msg: string);
15449: procedure Assert2(expr : Boolean; const msg: string);
15450: Procedure Assign( AList : TCustomBucketList)
15451: Procedure Assign( Other : TObject)
15452: Procedure Assign( Source : TDragObject)
15453: Procedure Assign( Source : TPersistent)
15454: Procedure Assign(Source:TPersistent)
15455: procedure Assign2(mystring, mypath: string);
15456: Procedure AssignCurValues( Source : TDataSet);
15457: Procedure AssignCurValues1( const CurValues : Variant);
15458: Procedure ASSIGNFIELD( FIELD : TFIELD)
15459: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
15460: Procedure AssignFile(var F: Text; FileName: string)
15461: procedure AssignFile(var F: TextFile; FileName: string)
15462: procedure AssignFileRead(var mystring, myfilename: string);
15463: procedure AssignFileWrite(mystring, myfilename: string);
15464: Procedure AssignTo( Other : TObject)
15465: Procedure AssignValues( Value : TParameters)
15466: Procedure ASSIGNVALUES( VALUE : TPARAMS)
15467: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
15468: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
15469: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
15470: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
15471: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
15472: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
15473: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
15474: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
15475: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
15476: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
15477: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
15478: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
15479: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
15480: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
15481: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
15482: procedure Beep
15483: Procedure BeepOk
15484: Procedure BeepQuestion
15485: Procedure BeepHand
15486: Procedure BeepExclamation
15487: Procedure BeepAsterisk
15488: Procedure BeepInformation
15489: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
15490: Procedure BeginLayout
15491: Procedure BeginTimer( const Delay, Resolution : Cardinal)
15492: Procedure BeginUpdate
15493: procedure BeginUpdate;
15494: procedure BigScreen1Click(Sender: TObject);
15495: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
15496: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
15497: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
15498: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
15499: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
15500: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
15501: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
15502: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
15503: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
15504: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
15505: Procedure BreakPointMenuClick( Sender : TObject)
15506: procedure BRINGTOFRONT
15507: procedure BringToFront;
15508: Procedure btnBackClick( Sender : TObject)
15509: Procedure btnBrowseClick( Sender : TObject)

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15510: Procedure BtnClick( Index : TNavigateBtn)
15511: Procedure btnLargeIconsClick( Sender : TObject)
15512: Procedure BuildAndSendRequest( AURI : TIdURI)
15513: Procedure BuildCache
15514: Procedure BurnMemory( var Buff, BuffLen : integer)
15515: Procedure BurnMemoryStream( Destructo : TMemoryStream)
15516: Procedure CalculateFirstSet
15517: Procedure Cancel
15518: procedure CancelDrag;
15519: Procedure CancelEdit
15520: procedure CANCELHINT
15521: Procedure CancelRange
15522: Procedure CancelUpdates
15523: Procedure CancelWriteBuffer
15524: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool;
15525: Procedure Capture2( ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
15526: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool
15527: procedure CaptureScreenFormat(vname: string; vextension: string);
15528: procedure CaptureScreenPNG(vname: string);
15529: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
15530: procedure CASCADE
15531: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
15532: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer);
15533: Procedure cbPathClick( Sender : TObject)
15534: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
15535: Procedure cedebugAfterExecute( Sender : TPSScript)
15536: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
15537: Procedure cedebugCompile( Sender : TPSScript)
15538: Procedure cedebugExecute( Sender : TPSScript)
15539: Procedure cedebugIdle( Sender : TObject)
15540: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
15541: Procedure CenterHeight( const pc, pcParent : TControl)
15542: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
15543: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
15544: Procedure Change
15545: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
15546: Procedure Changed
15547: Procedure ChangeDir( const ADirName : string)
15548: Procedure ChangeDirUp
15549: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
15550: Procedure ChangeLevelBy( Value : TChangeRange)
15551: Procedure ChDir(const s: string)
15552: Procedure Check(Status: Integer)
15553: Procedure CheckCommonControl( CC : Integer)
15554: Procedure CHECKFIELDNAME( const FIELDNAME : String)
15555: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
15556: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
15557: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
15558: Procedure CheckToken( T : Char)
15559: procedure CheckToken(t:char)
15560: Procedure CheckTokenSymbol( const S : string)
15561: procedure CheckTokenSymbol(s:string)
15562: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
15563: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
15564: Procedure CIED65ToCIED50( var X, Y, Z : Extended)
15565: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal);
15566: procedure CipherFile1Click(Sender: TObject);
15567: Procedure Clear;
15568: Procedure Clear1Click( Sender : TObject)
15569: Procedure ClearColor( Color : TColor)
15570: Procedure CLEARITEM( AITEM : TMENUITEM)
15571: Procedure ClearMapping
15572: Procedure ClearSelection( KeepPrimary : Boolean)
15573: Procedure ClearWriteBuffer
15574: Procedure Click
15575: Procedure Close
15576: Procedure Close1Click( Sender : TObject)
15577: Procedure CloseDatabase( Database : TDatabase)
15578: Procedure CloseDataSets
15579: Procedure CloseDialog
15580: Procedure CloseFile(var F: Text);
15581: Procedure Closure
15582: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
15583: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
15584: Procedure CodeCompletionList1Click( Sender : TObject)
15585: Procedure ColEnter
15586: Procedure Collapse
15587: Procedure Collapse( Recurse : Boolean)
15588: Procedure ColorRGBToHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word)
15589: Procedure CommaSeparatedToStringList( AList : TStrings; const Value : string)
15590: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction)
15591: Procedure Compile1Click( Sender : TObject)
15592: procedure ComponentCount1Click(Sender: TObject);
15593: Procedure Compress(azipfolder, azipfile: string)
15594: Procedure DeCompress(azipfolder, azipfile: string)
15595: Procedure XZip(azipfolder, azipfile: string)
15596: Procedure XUnZip(azipfolder, azipfile: string)
15597: Procedure Connect( const ATimeout : Integer)
15598: Procedure Connect( Socket : TSocket)

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15599: procedure Console1Click(Sender: TObject);
15600: procedure Continue
15601: procedure ContinueCount( var Counter : TJclCounter)
15602: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
15603: procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
15604: procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
15605: procedure ConvertImage(vsource, vdestination: string);
15606: // Ex. ConvertImage(Exepath+'my233_bmp.bmp',Exepath+'mypng111.png')
15607: procedure ConvertToGray(Cnv: TCanvas);
15608: procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
15609: procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
15610: procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
15611: procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
15612: procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASourceIndex : Integer; var VDest : Word)
15613: procedure CopyFrom( mbCopy : TMyBigInt)
15614: procedure CopyMemoryStream( Source, Destination : TMemoryStream)
15615: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
15616: procedure CopyTIdByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array
of Byte; const ADestIndex : Integer; const ALength : Integer)
15617: procedure CopyTIdBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const
ALen:Int)
15618: procedure CopyTIdCardinal( const ASource : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer)
15619: procedure CopyTIdInt64( const ASource : Int64; var VDest : TIdBytes; const ADestIndex : Integer)
15620: procedure CopyTIdIPv6Address(const ASource:TIdIPv6Address; var VDest: TIdBytes; const ADestIndex : Integer)
15621: procedure CopyTIdLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex : Integer)
15622: procedure CopyTIdNetworkLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex:Integer)
15623: procedure CopyTIdNetworkWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
15624: procedure CopyTIdString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
15625: procedure CopyTIdWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
15626: procedure CopyToClipboard
15627: procedure CountParts
15628: procedure CreateDataSet
15629: procedure CreateEmptyFile( const FileName : string)
15630: procedure CreateFileFromString( const FileName, Data : string)
15631: procedure CreateFromDelta( Source : TPacketDataSet)
15632: procedure CREATEHANDLE
15633: procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
15634: procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
15635: procedure CreateTable
15636: procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
15637: procedure CSyntax1Click(Sender: TObject);
15638: procedure CurrencyToComp( Value : Currency; var Result : Comp)
15639: procedure CURSORPOSCHANGED
15640: procedure CutFirstDirectory(var S: String)
15641: procedure DataBaseError(const Message: string)
15642: procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);
15643: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
15644: procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
15645: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
15646: procedure DBIError(errorCode: Integer)
15647: procedure DebugOutput( const AText : string)
15648: procedure DebugRun1Click( Sender : TObject)
15649: procedure Dec;
15650: procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
15651: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
15652: procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
15653: procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
15654: procedure DecodeDateTime(const AValue:TDateTime;out AYear, AMonth, ADay, AHour, AMin, ASec, AMillSec:Word)
15655: procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
15656: procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear, AMonth, ANthDayOfWeek, ADayOfWeek:Word)
15657: procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
15658: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
15659: procedure Decompile1Click( Sender : TObject)
15660: procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
15661: procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
15662: procedure DeferLayout
15663: procedure defFileread
15664: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL;REMOVING:BOOLEAN)
15665: procedure DelayMicroseconds( const MicroSeconds : Integer)
15666: procedure Delete
15667: procedure Delete( const AFilename : string)
15668: procedure Delete( const Index : Integer)
15669: procedure DELETE( INDEX : INTEGER)
15670: procedure Delete( Index : LongInt)
15671: procedure Delete( Node : TTreeNode)
15672: procedure Delete(var s: AnyString; ifrom, icount: Longint);
15673: procedure DeleteAlias( const Name : string)
15674: procedure DeleteDriver( const Name : string)
15675: procedure DeleteIndex( const Name : string)
15676: procedure DeleteKey( const Section, Ident : String)
15677: procedure DeleteRecords
15678: procedure DeleteRecords( AffectRecords : TAffectRecords)
15679: procedure DeleteString( var pStr : String; const pDelStr : string)
15680: procedure DeleteTable
15681: procedure DelphiSite1Click(Sender: TObject);
15682: procedure Deselect
15683: procedure Deselect( Node : TTreeNode)
15684: procedure DestroyComponents
15685: procedure DestroyHandle

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15686: Procedure Diff( var X : array of Double)
15687: procedure Diff(var X: array of Double);
15688: procedure DISABLEALIGN
15689: Procedure DisableConstraints
15690: Procedure Disconnect
15691: Procedure Disconnect( Socket : TSocket)
15692: Procedure Dispose
15693: procedure Dispose(P: PChar)
15694: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
15695: Procedure DoKey( Key : TDBCtrlGridKey)
15696: Procedure DomToTree(anXmlNode: IXmlNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
15697: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
15698: Procedure Dormant
15699: Procedure DoubleToBcd( const AValue : Double; var bcd : TBcd);
15700: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
15701: Procedure DoubleToComp( Value : Double; var Result : Comp)
15702: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
15703: procedure Draw(X, Y: Integer; Graphic: TGraphic);
15704: Procedure Draw1(Canvas:TCanvas; X,Y,
Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
15705: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
15706: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
15707: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
15708: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
15709: procedure DrawFocusRect(const Rect: TRect);
15710: Procedure DrawHBITToTBitmap( HDIB : THandle; Bitmap : TBitmap)
15711: Procedure DRAWMENUITEM( MENUITEM : TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
15712: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean);
15713: Procedure DrawOverlay1(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
TDrawingStyle; AImageType : TImageType; Enabled: Boolean);
15714: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
15715: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
15716: Procedure DropConnections
15717: Procedure DropDown
15718: Procedure DumpDescription( oStrings : TStringList)
15719: Procedure DumpStateTable( oStrings : TStringList)
15720: Procedure EDIT
15721: Procedure EditButtonClick
15722: Procedure EditFont1Click( Sender : TObject)
15723: procedure Ellipse(X1, Y1, X2, Y2: Integer);
15724: Procedure Ellipse1( const Rect : TRect);
15725: Procedure EMMS
15726: Procedure Encode( ADest : TStream)
15727: procedure ENDDRAG(DROP:BOOLEAN)
15728: Procedure EndEdit( Cancel : Boolean)
15729: Procedure EndTimer
15730: Procedure EndUpdate
15731: Procedure EraseSection( const Section : string)
15732: Procedure Error( const Ident : string)
15733: procedure Error(Ident:Integer)
15734: Procedure ErrorFmt( const Ident : string; const Args : array of const)
15735: Procedure ErrorStr( const Message : string)
15736: procedure ErrorStr(Message:String)
15737: Procedure Exchange( Index1, Index2 : Integer)
15738: procedure Exchange(Index1, Index2: Integer);
15739: Procedure Exec( FileName, Parameters, Directory : string)
15740: Procedure ExecProc
15741: Procedure ExecSQL( UpdateKind : TUpdateKind)
15742: Procedure Execute
15743: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
15744: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
15745: Procedure ExecuteCommand(executeFile, paramstring: string)
15746: Procedure ExecuteShell(executeFile, paramstring: string)
15747: Procedure ExitThread(ExitCode: Integer); stdcall;
15748: Procedure ExitProcess(ExitCode: Integer); stdcall;
15749: Procedure Expand( AUserName : String; AResults : TStringList)
15750: Procedure Expand( Recurse : Boolean)
15751: Procedure ExportClipboard1Click( Sender : TObject)
15752: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
15753: Procedure ExtractContentFields( Strings : TStringList)
15754: Procedure ExtractCookieFields( Strings : TStringList)
15755: Procedure ExtractFields( Separators, WhiteSpace : TSysCharSet; Content : PChar; Strings : TStringList)
15756: Procedure ExtractHeaderFields(Separ,
WhiteSpace:TSysChSet;Cont:PChar;Strings:TStringList;Decode:Bool;StripQuotes:Bool)
15757: Procedure ExtractHTTPFields(Separators,WhiteSpace:
TSysCharSet;Content:PChar;Strings:TStringList;StripQuotes:Bool)
15758: Procedure ExtractQueryFields( Strings : TStringList)
15759: Procedure FastDegToGrad
15760: Procedure FastDegToRad
15761: Procedure FastGradToDeg
15762: Procedure FastGradToRad
15763: Procedure FastRadToDeg
15764: Procedure FastRadToGrad
15765: Procedure FileClose( Handle : Integer)
15766: Procedure FileClose(handle: integer)
15767: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs,ShowDirs,Multitasking:Bool)
15768: Procedure FileStructure( AStructure : TIdFTPDataStructure)
15769: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
15770: Procedure FillBytes( var VBytes : TIdBytes; const ACount : Integer; const AValue : Byte)

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15771: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
15772: Procedure FillChar2(var X: PChar ; count: integer; value: char)
15773: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
15774: Procedure FillIPList
15775: procedure FillRect(const Rect: TRect);
15776: Procedure FillTStrings( AStrings : TStrings)
15777: Procedure FilterOnBookmarks( Bookmarks : array of const)
15778: procedure FinalizePackage(Module: HMODULE)
15779: procedure FindClose;
15780: procedure FindClose2(var F: TSearchRec)
15781: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
15782: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
15783: Procedure FindNearest( const KeyValues : array of const)
15784: Procedure FinishContext
15785: Procedure FIRST
15786: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
15787: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
15788: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
15789: Procedure FlushSchemaCache( const TableName : string)
15790: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
15791: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
15792: Procedure FormlClose( Sender : TObject; var Action : TCloseAction)
15793: Procedure FormActivate( Sender : TObject)
15794: procedure FormatLn(const format: string; const args: array of const); //alias
15795: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
15796: Procedure FormCreate( Sender : TObject)
15797: Procedure FormDestroy( Sender : TObject)
15798: Procedure FormKeyPress( Sender : TObject; var Key : Char)
15799: procedure FormOutputClick(Sender: TObject);
15800: Procedure FormToHtml( Form : TForm; Path : string)
15801: procedure FrameRect(const Rect: TRect);
15802: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
15803: Procedure NotebookHandlesNeeded( Notebook : TNotebook)
15804: Procedure Free( Buffer : TRecordBuffer)
15805: Procedure Free( Buffer : TValueBuffer)
15806: Procedure Free;
15807: Procedure FreeAndNil(var Obj:TObject)
15808: Procedure FreeImage
15809: procedure FreeMem(P: PChar; Size: Integer)
15810: Procedure FreeTreeData( Tree : TUpdateTree)
15811: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
15812: Procedure FullCollapse
15813: Procedure FullExpand
15814: Procedure GenerateDPB(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
15815: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
15816: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
15817: Procedure Get1( AURL : string; const AResponseContent : TStream);
15818: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
15819: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
15820: Procedure GetAliasNames( List : TStrings)
15821: Procedure GetAliasParams( const AliasName : string; List : TStrings)
15822: Procedure GetApplicationsRunning( Strings : TStrings)
15823: Procedure GetCommandTypes( List : TWideStrings)
15824: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
15825: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
15826: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
15827: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
15828: Procedure GetDatabaseNames( List : TStrings)
15829: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
15830: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
15831: Procedure GetDir(d: byte; var s: string)
15832: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
15833: Procedure GetDriverNames( List : TStrings)
15834: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
15835: Procedure GetDriverParams( const DriverName : string; List : TStrings)
15836: Procedure GetEmails1Click( Sender : TObject)
15837: Procedure getEnvironmentInfo;
15838: Function getEnvironmentString: string;
15839: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
15840: Procedure GetFieldNames( const TableName : string; List : TStrings)
15841: Procedure GetFieldNames( const TableName : string; List : TStrings);
15842: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
15843: Procedure GETFIELDNAMES( LIST : TSTRINGS)
15844: Procedure GetFieldNames1( const TableName : string; List : TStrings);
15845: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
15846: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
15847: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
15848: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
15849: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
15850: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
15851: Procedure GetFormatSettings
15852: Procedure GetFromDIB( var DIB : TBitmapInfo)
15853: Procedure GetFromHDIB( HDIB : HBitmap)
15854: Procedure GetIcon( Index : Integer; Image : TIcon);
15855: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
15856: Procedure GetIndexInfo( IndexName : string)
15857: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
15858: Procedure GetIndexNames( List : TStrings)
15859: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);

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15860: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
15861: Procedure GetIndexNames4( const TableName : string; List : TStrings);
15862: Procedure GetInternalResponse
15863: Procedure GETITEMNAMES( LIST : TSTRINGS)
15864: procedure GetMem(P: PChar; Size: Integer)
15865: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
15866: procedure GetPackageDescription(ModuleName: PChar): string)
15867: Procedure GetPackageNames( List : TStrings);
15868: Procedure GetPackageNames1( List : TWideStrings);
15869: Procedure GetParamList( List : TList; const ParamNames : WideString)
15870: Procedure GetProcedureNames( List : TStrings);
15871: Procedure GetProcedureNames( List : TWideStrings);
15872: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
15873: Procedure GetProcedureNames1( List : TStrings);
15874: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
15875: Procedure GetProcedureNames3( List : TWideStrings);
15876: Procedure GetProcedureNames4( const PackageName : WideString; List : TWideStrings);
15877: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
15878: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
15879: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
15880: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : WideString; List : TList);
15881: Procedure GetProviderNames( Names : TWideStrings);
15882: Procedure GetProviderNames( Proc : TGetStrProc)
15883: Procedure GetProviderNames1( Names : TStrings);
15884: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
15885: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;apath:string);//no autoopen
image
15886: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const
Data:string;aformat:string):TLinearBitmap;
15887: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
15888: Procedure GetSchemaNames( List : TStrings);
15889: Procedure GetSchemaNames1( List : TWideStrings);
15890: Procedure GetSessionNames( List : TStrings)
15891: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
15892: Procedure GetStrings( List : TStrings)
15893: Procedure GetSystemTime; stdcall;
15894: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings)
15895: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
15896: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
15897: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
15898: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
15899: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
15900: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
15901: Procedure GetTransitionsOn( cChar : char; oStateList : TList)
15902: Procedure GetVisibleWindows( List : Tstrings)
15903: Procedure GoBegin
15904: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
15905: Procedure GotoCurrent( Table : TTable)
15906: procedure GotoEnd1Click(Sender: TObject);
15907: Procedure GotoNearest
15908: Procedure GradientFillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const
Direction: TGradientDirection)
15909: Procedure HandleException( E : Exception; var Handled : Boolean)
15910: procedure HANDLEMESSAGE
15911: procedure HandleNeeded;
15912: Procedure Head( AURL : string)
15913: Procedure Help( var AHelpContents : TStringList; ACommand : string)
15914: Procedure HexToBinary( Stream : TStream)
15915: procedure HexToBinary(Stream:TStream)
15916: Procedure HideDragImage
15917: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
15918: Procedure HideTraybar
15919: Procedure HideWindowForSeconds(secs: integer); {//3 seconds}
15920: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); {//3 seconds}
15921: Procedure HookOSExceptions
15922: Procedure HookSignal( RtlSigNum : Integer)
15923: Procedure HSLToRGB(const H, S, L : Single; out R, G, B : Single);
15924: Procedure HTMLSyntax1Click( Sender : TObject)
15925: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
15926: Procedure IFPS3ClassesPlugin1ExecImport( Sender : TObject; Exec : TPSExec; x : TPSExecRuntimeClassImporter)
15927: Procedure ImportfromClipboard1Click( Sender : TObject)
15928: Procedure ImportfromClipboard2Click( Sender : TObject)
15929: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
15930: procedure Incb(var x: byte);
15931: Procedure Include1Click( Sender : TObject)
15932: Procedure IncludeOFF; //preprocessing
15933: Procedure IncludeON;
15934: procedure InfolClick(Sender: TObject);
15935: Procedure InitAltRecBuffers( CheckModified : Boolean)
15936: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
15937: Procedure InitContext(WebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse)
15938: Procedure InitData( ASource : TDataSet)
15939: Procedure InitDelta( ADelta : TPacketDataSet);
15940: Procedure InitDeltal( const ADelta : OleVariant);
15941: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
15942: Procedure Initialize
15943: procedure InitializePackage(Module: HMODULE)
15944: Procedure INITIATEACTION
15945: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'

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15946: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
15947: Procedure InitModule( AModule : TComponent)
15948: Procedure InitStdConvs
15949: Procedure InitTreeData( Tree : TUpdateTree)
15950: Procedure INSERT
15951: Procedure Insert( Index : Integer; AClass : TClass)
15952: Procedure Insert( Index : Integer; AComponent : TComponent)
15953: Procedure Insert( Index : Integer; AObject : TObject)
15954: Procedure Insert( Index : Integer; const S : WideString)
15955: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
15956: Procedure Insert(Index: Integer; const S: string);
15957: procedure Insert(Index: Integer; S: string);
15958: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
15959: procedure InsertComponent(AComponent:TComponent)
15960: procedure InsertControl(AControl: TControl);
15961: Procedure InsertIcon( Index : Integer; Image : TIcon)
15962: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
15963: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
15964: Procedure InsertObject(Index:Integer;S:String;AObject:TObject)
15965: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
15966: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
15967: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
15968: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
15969: Procedure InternalBeforeResolve( Tree : TUpdateTree)
15970: Procedure InvalidateModuleCache
15971: Procedure InvalidateTitles
15972: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
15973: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
15974: Procedure InvalidDateTimeError(const AYear, AMth, ADay, AHour, AMin, ASec, AMilSec: Word; const
ABaseDate: TDateTime)
15975: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
15976: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
15977: procedure JavaSyntax1Click(Sender: TObject);
15978: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
15979: Procedure KillDataChannel
15980: Procedure LargeFont1Click( Sender : TObject)
15981: Procedure LAST
15982: Procedure LaunchCpl( FileName : string)
15983: Procedure Launch( const AFile : string)
15984: Procedure LaunchFile( const AFile : string)
15985: Procedure LetFileList(FileList: TStringlist; apath: string);
15986: Procedure lineToNumber( xmemo : String; met : boolean)
15987: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
DefaultDraw:Bool)
15988: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
: TCustomDrawState; var DefaultDraw : Boolean)
15989: Procedure ListViewData( Sender : TObject; Item : TListItem)
15990: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
: TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
15991: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
15992: Procedure ListViewDblClick( Sender : TObject)
15993: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
15994: Procedure ListDLLEExports(const FileName: string; List: TStrings);
15995: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream)
15996: procedure LoadBytecode1Click(Sender: TObject);
15997: procedure LoadFileFromResource(const FileName: string; ms: TMemoryStream);
15998: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
15999: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
16000: Procedure LoadFromFile( AFileName : string)
16001: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
16002: Procedure LoadFromFile( const FileName : string)
16003: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
16004: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
16005: Procedure LoadFromFile( const FileName : WideString)
16006: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
16007: Procedure LoadFromFile(const AFileName: string)
16008: procedure LoadFromFile(FileName:string);
16009: procedure LoadFromFile(FileName:String)
16010: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
16011: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
16012: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
16013: Procedure LoadFromStream( const Stream : TStream)
16014: Procedure LoadFromStream( S : TStream)
16015: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
16016: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
16017: Procedure LoadFromStream( Stream : TStream)
16018: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOBTYPE : TBLOBTYPE)
16019: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
16020: procedure LoadFromStream(Stream: TStream);
16021: Procedure LoadFromStream1( Stream : TSeekableStream; const FormatExt : string);
16022: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
16023: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
16024: Procedure LoadLastFile1Click( Sender : TObject)
16025: { LoadIcoToImage loads two icons from resource named NameRes,
16026: into two image lists ALarge and ASmall}
16027: Procedure LoadIcoToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
16028: Procedure LoadMemo
16029: Procedure LoadParamsFromIniFile( FFileName : WideString)
16030: Procedure Lock

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16031: Procedure Login
16032: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
16033: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
16034: Procedure MakeCaseInsensitive
16035: Procedure MakeDeterministic( var bChanged : boolean)
16036: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
16037: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
16038: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
16039: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
16040: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
16041: Procedure SetRectComplexFormatStr( const S : string)
16042: Procedure SetPolarComplexFormatStr( const S : string)
16043: Procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
16044: Procedure MakeVisible
16045: Procedure MakeVisible( PartialOK : Boolean)
16046: Procedure ManuallClick( Sender : TObject)
16047: Procedure MarkReachable
16048: Procedure maXbox; //shows the exe version data in a win box
16049: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
16050: Procedure MemolChange( Sender : TObject)
16051: Procedure MemolReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var
Action:TSynReplaceAction)
16052: Procedure MemolSpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
16053: Procedure MemolStatusChange( Sender : TObject; Changes : TSynStatusChanges)
16054: procedure MemorylClick(Sender: TObject);
16055: Procedure MERGE( MENU : TMAINMENU)
16056: Procedure MergeChangeLog
16057: procedure MINIMIZE
16058: Procedure MinimizeMaxbox;
16059: Procedure MkDir(const s: string)
16060: Procedure mnuPrintFontlClick( Sender : TObject)
16061: procedure ModalStarted
16062: Procedure Modified
16063: Procedure ModifyAlias( Name : string; List : TStrings)
16064: Procedure ModifyDriver( Name : string; List : TStrings)
16065: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
16066: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
16067: Procedure Move( CurIndex, NewIndex : Integer)
16068: procedure Move(CurIndex, NewIndex: Integer);
16069: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
16070: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
16071: Procedure moveCube( o : TMyLabel)
16072: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
16073: procedure MoveTo(X, Y: Integer);
16074: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
16075: Procedure MovePoint(var x,y:Extended; const angle:Extended);
16076: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
16077: Procedure Multiply1( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
16078: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string = 'MAINICON';Flags:DWORD=MB_OK);
16079: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
16080: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
16081: procedure New(P: PChar)
16082: procedure NewlClick(Sender: TObject);
16083: procedure NewInstancelClick(Sender: TObject);
16084: Procedure NEXT
16085: Procedure NextMonth
16086: Procedure Noop
16087: Procedure NormalizePath( var APath : string)
16088: procedure ObjectBinaryToText(Input, Output: TStream)
16089: procedure ObjectBinaryToTextl(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
16090: procedure ObjectResourceToText(Input, Output: TStream)
16091: procedure ObjectResourceToTextl(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
16092: procedure ObjectTextToBinary(Input, Output: TStream)
16093: procedure ObjectTextToBinaryl(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
16094: procedure ObjectTextToResource(Input, Output: TStream)
16095: procedure ObjectTextToResource1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
16096: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
16097: Procedure Open( const UserID : WideString; const Password : WideString);
16098: Procedure Open;
16099: Procedure openlClick( Sender : TObject)
16100: Procedure OpenCdDrive
16101: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)
16102: Procedure OpenCurrent
16103: Procedure OpenFile(vfilenamepath: string)
16104: Procedure OpenDirectorylClick( Sender : TObject)
16105: Procedure OpenIndexFile( const IndexName : string)
16106: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const
SchemaID:OleVariant;DataSet:TADODDataSet)
16107: Procedure OpenWriteBuffer( const AThreshold : Integer)
16108: Procedure OptimizeMem
16109: Procedure Options1( AUURL : string);
16110: Procedure OutputDebugString(lpOutputString : PChar)
16111: Procedure PackBuffer
16112: Procedure Paint
16113: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean)
16114: Procedure PaintToTBitmap( Target : TBitmap)
16115: Procedure PaletteChanged
16116: Procedure ParentBiDiModeChanged
16117: Procedure PARENTBIDIMODECHANGED( ACONTROL : TObject)

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16118: Procedure PasteFromClipboard;
16119: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer)
16120: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
16121: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
16122: Procedure PError( Text : string)
16123: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
16124: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Integer;Y3:Integer;X4:Integer;Y4:Integer);
16125: Procedure Play( FromFrame, ToFrame : Word; Count : Integer)
16126: procedure playmp3(mpath: string);
16127: Procedure PlayMP31Click( Sender : TObject)
16128: Procedure PointCopy( var Dest : TPoint; const Source : TPoint)
16129: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer)
16130: procedure PolyBezier(const Points: array of TPoint);
16131: procedure PolyBezierTo(const Points: array of TPoint);
16132: procedure Polygon(const Points: array of TPoint);
16133: procedure Polyline(const Points: array of TPoint);
16134: Procedure Pop
16135: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU;GROUPS: array of INT; var WIDTHS : array of LONGINT)
16136: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float)
16137: Procedure POPUP( X, Y : INTEGER)
16138: Procedure PopupURL(URL : WideString);
16139: Procedure POST
16140: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream);
16141: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream);
16142: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream);
16143: Procedure PostUser( const Email, FirstName, LastName : WideString)
16144: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
16145: procedure Pred(X: int64);
16146: Procedure Prepare
16147: Procedure PrepareStatement
16148: Procedure PreProcessXML( AList : TStrings)
16149: Procedure PreventDestruction
16150: Procedure Print( const Caption : string)
16151: procedure PrintBitmap(aGraphic: TGraphic; Title: string);
16152: procedure printf(const format: string; const args: array of const);
16153: Procedure PrintList(Value: TStringList);
16154: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle);//TBitmapStyle=(bsNormal,bsCentered,bsStretched)
16155: Procedure Printout1Click( Sender : TObject)
16156: Procedure ProcessHeaders
16157: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR)
16158: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean);
16159: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean);
16160: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean);
16161: Procedure ProcessMessagesOFF; //application.processmessages
16162: Procedure ProcessMessagesON;
16163: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
16164: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
16165: Procedure Proclist Size is: 3797 /1415
16166: Procedure procMessClick( Sender : TObject)
16167: Procedure PSScriptCompile( Sender : TPSScript)
16168: Procedure PSScriptExecute( Sender : TPSScript)
16169: Procedure PSScriptLine( Sender : TObject)
16170: Procedure Push( ABoundary : string)
16171: procedure PushItem(AItem: Pointer)
16172: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream);
16173: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean);
16174: procedure PutLinuxLines(const Value: string)
16175: Procedure Quit
16176: Procedure RaiseConversionError( const AText : string);
16177: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const);
16178: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string)
16179: procedure RaiseException(Ex: TIFException; Param: String);
16180: Procedure RaiseExceptionForLastCmdResult;
16181: procedure RaiseLastException;
16182: procedure RaiseException2;
16183: Procedure RaiseLastOSError
16184: Procedure RaiseLastWin32;
16185: procedure RaiseLastWin32Error)
16186: Procedure RaiseListError( const ATemplate : string; const AData : array of const)
16187: Procedure RandomFillStream( Stream : TMemoryStream)
16188: procedure randomize;
16189: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect)
16190: Procedure RCS
16191: Procedure Read( Socket : TSocket)
16192: Procedure ReadBlobData
16193: procedure ReadBuffer(Buffer:string;Count:LongInt)
16194: procedure ReadOnly1Click(Sender: TObject);
16195: Procedure ReadSection( const Section : string; Strings : TStrings)
16196: Procedure ReadSections( Strings : TStrings)
16197: Procedure ReadSections( Strings : TStrings);
16198: Procedure ReadSections1( const Section : string; Strings : TStrings);
16199: Procedure ReadSectionValues( const Section : string; Strings : TStrings)
16200: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean)
16201: Procedure ReadStrings( ADest : TStrings; AReadLinesCount : Integer)
16202: Procedure ReadVersion(aFileName: STRING; aVersion : TStrings);
16203: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
16204: Procedure Realign;
16205: procedure Rectangle(X1, Y1, X2, Y2: Integer);
16206: Procedure Rectangle1( const Rect : TRect);

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16207: Procedure RectCopy( var Dest : TRect; const Source : TRect)
16208: Procedure RectFitToScreen( var R : TRect)
16209: Procedure RectGrow( var R : TRect; const Delta : Integer)
16210: Procedure RectGrowX( var R : TRect; const Delta : Integer)
16211: Procedure RectGrowY( var R : TRect; const Delta : Integer)
16212: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer)
16213: Procedure RectMoveTo( var R : TRect; const X, Y : Integer)
16214: Procedure RectNormalize( var R : TRect)
16215: // TFileCallbackProcedure = procedure(filename:string);
16216: Procedure RecurseDirectory(Dir: String; IncludeSubs: boolean; callback: TFileCallbackProcedure);
16217: Procedure RecurseDirectory2(Dir: String; IncludeSubs : boolean);
16218: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
16219: Procedure Refresh;
16220: Procedure RefreshData( Options : TFetchOptions)
16221: Procedure REFRESHLOOKUPLIST
16222: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIdAuthenticationClass)
16223: Procedure RegisterChanges( Value : TChangeLink)
16224: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass)
16225: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass)
16226: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int)
16227: Procedure ReInitialize( ADelay : Cardinal)
16228: procedure RELEASE
16229: Procedure Remove( const AByteCount : integer)
16230: Procedure REMOVE( FIELD : TFIELD)
16231: Procedure REMOVE( ITEM : TMENUITEM)
16232: Procedure REMOVE( POPUP : TPOPUPMENU)
16233: Procedure RemoveAllPasswords
16234: procedure RemoveComponent(AComponent:TComponent)
16235: Procedure RemoveDir( const ADirName : string)
16236: Procedure RemoveLambdaTransitions( var bChanged : boolean)
16237: Procedure REMOVEPARAM( VALUE : TPARAM)
16238: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset);
16239: Procedure RemoveTransitionToI( oState : TniRegularExpressionState);
16240: Procedure Rename( const ASourceFile, ADestFile : string)
16241: Procedure Rename( const FileName : string; Reload : Boolean)
16242: Procedure RenameTable( const NewTableName : string)
16243: Procedure Replace( Index : Integer; Image, Mask : TBitmap)
16244: Procedure ReplaceClick( Sender : TObject)
16245: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime)
16246: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime))
16247: Procedure ReplaceIcon( Index : Integer; Image : TIcon)
16248: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor)
16249: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime)
16250: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
16251: Procedure Requery( Options : TExecuteOptions)
16252: Procedure Reset
16253: Procedure ResetClick( Sender : TObject)
16254: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor)
16255: procedure ResourceExploreClick(Sender: TObject);
16256: Procedure RestoreContents
16257: Procedure RestoreDefaults
16258: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string)
16259: Procedure RetrieveHeaders
16260: Procedure RevertRecord
16261: Procedure RGBAToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal)
16262: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
16263: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
16264: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
16265: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
16266: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer)
16267: Procedure RleCompress2( Stream : TStream)
16268: Procedure RleDecompress2( Stream : TStream)
16269: Procedure Rmdir(const S: string)
16270: Procedure Rollback
16271: Procedure Rollback( TransDesc : TTransactionDesc)
16272: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
16273: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)
16274: Procedure RollbackTrans
16275: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
16276: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
16277: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
16278: Procedure RunDll32Internal( Wnd : HWND; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
16279: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
16280: Procedure S_EBox( const AText : string)
16281: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var
AddKey:int
16282: Procedure S_IBox( const AText : string)
16283: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
16284: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
16285: Procedure S-TokenInit( cBuffer : PChar; const cDelimiters : string)
16286: Procedure SampleVarianceAndMean
16287: ( const X : TDynFloatArray; var Variance, Mean : Float)
16288: Procedure Save2Click( Sender : TObject)
16289: Procedure Saveas3Click( Sender : TObject)
16290: Procedure SavebeforeClick( Sender : TObject)
16291: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
16292: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
16293: Procedure SaveConfigFile
16294: Procedure SaveOutputClick( Sender : TObject)

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16295: procedure SaveScreenshotClick(Sender: TObject);
16296: Procedure SaveLn(pathname, content: string); //SaveLn(exepath+'mysaveIntest.txt', memo2.text);
16297: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APALETTE : HPALETTE)
16298: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APALETTE : HPALETTE)
16299: Procedure SaveToFile( AFileName : string)
16300: Procedure SAVETOFILE( const FILENAME : String)
16301: Procedure SaveToFile( const FileName : WideString)
16302: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
16303: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
16304: procedure SaveToFile(FileName: string);
16305: procedure SaveToFile(FileName:String)
16306: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
16307: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
16308: Procedure SaveToStream( S : TStream)
16309: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
16310: Procedure SaveToStream( Stream : TStream)
16311: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
16312: procedure SaveToStream(Stream: TStream);
16313: procedure SaveToStream(Stream:TStream)
16314: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
16315: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
16316: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
16317: procedure Say(const sText: string)
16318: Procedure SBytecodeClick( Sender : TObject)
16319: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
16320: procedure ScriptExplorer1Click(Sender: TObject);
16321: Procedure Scroll( Distance : Integer)
16322: Procedure Scroll( DX, DY : Integer)
16323: procedure ScrollBy(DeltaX, DeltaY: Integer);
16324: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
16325: Procedure ScrollTabs( Delta : Integer)
16326: Procedure Search1Click( Sender : TObject)
16327: procedure SearchAndOpenDoc(vfilenamepath: string)
16328: procedure SearchAndOpenFile(vfilenamepath: string)
16329: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
16330: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
16331: Procedure SearchNext1Click( Sender : TObject)
16332: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
16333: Procedure Select1( const Nodes : array of TTreeNode);
16334: Procedure Select2( Nodes : TList);
16335: Procedure SelectNext( Direction : Boolean)
16336: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
16337: Procedure SelfTestPEM //unit uPSI_cPEM
16338: Procedure Send( AMsg : TIdMessage)
16339: //config forst in const MAILINIFILE = 'maildef.ini';
16340: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox',
16341: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
16342: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
16343: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
16344: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
16345: Procedure SendResponse
16346: Procedure SendStream( AStream : TStream)
16347: Procedure Set8087CW( NewCW : Word)
16348: Procedure SetAll( One, Two, Three, Four : Byte)
16349: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
16350: Procedure SetAppDispatcher( const ADispatcher : TComponent)
16351: procedure SetArrayLength;
16352: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
16353: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
16354: Procedure SetAsHandle( Format : Word; Value : THandle)
16355: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
16356: procedure SetCaptureControl(Control: TControl);
16357: Procedure SetColumnAttributes
16358: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
16359: Procedure SetCustomHeader( const Name, Value : string)
16360: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
FieldName:Widestring)
16361: Procedure SetFMTBcd( Buffer : TRecordBuffer; value : TBcd)
16362: Procedure SetFocus
16363: procedure SetFocus; virtual;
16364: Procedure SetInitialState
16365: Procedure SetKey
16366: procedure SetLastError(ErrorCode: Integer)
16367: procedure SetLength;
16368: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
16369: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
16370: Procedure SetParams( ADataset : TDataset; UpdateKind : TUpdateKind);
16371: procedure SETPARAMS(APOSITION,AMIN,AMAX:INTEGER)
16372: Procedure SetParams1( UpdateKind : TUpdateKind);
16373: Procedure SetPassword( const Password : string)
16374: Procedure SetPointer( Ptr : Pointer; Size : Longint)
16375: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
16376: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
16377: Procedure SetProvider( Provider : TComponent)
16378: Procedure SetProxy( const Proxy : string)
16379: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
16380: Procedure SetRange( const StartValues, EndValues : array of const)
16381: Procedure SetRangeEnd
16382: Procedure SetRate( const aPercent, aYear : integer)

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16383: procedure SetRate(const aPercent, aYear: integer)
16384: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
16385: Procedure SetSafeCallExceptionMsg( Msg : String)
16386: procedure SETSELTEXTBUF(BUFFER:PCHAR)
16387: Procedure SetSize( AWidth, AHeight : Integer)
16388: procedure SetSize(NewSize:LongInt)
16389: procedure SetString(var s: string; buffer: PChar; len: Integer)
16390: Procedure SetStrings( List : TStringList)
16391: Procedure SetText( Text : PWideChar)
16392: procedure SetText(Text: PChar);
16393: Procedure SetTextBuf( Buffer : PChar)
16394: procedure SETTEXTBUF(BUFFER:PCHAR)
16395: Procedure SetTick( Value : Integer)
16396: Procedure SetTimeout( ATimeOut : Integer)
16397: Procedure SetTraceEvent( Event : TDBXTraceEvent)
16398: Procedure SetUserName( const UserName : string)
16399: Procedure SetWallpaper( Path : string);
16400: procedure ShellStyle1Click(Sender: TObject);
16401: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORTCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
16402: Procedure ShowFileProperties( const FileName : string)
16403: Procedure ShowInclude1Click( Sender : TObject)
16404: Procedure ShowInterfaces1Click( Sender : TObject)
16405: Procedure ShowLastException1Click( Sender : TObject)
16406: Procedure ShowMessage( const Msg : string)
16407: Procedure ShowMessageBig(const aText : string);
16408: Procedure ShowMessageBig2(const aText : string; autosize: boolean);
16409: Procedure ShowMessageBig3(const aText : string; fsize: byte; autosize: boolean);
16410: Procedure MsgBig(const aText : string); //alias
16411: procedure showmessage(mytext: string);
16412: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
16413: Procedure ShowMessageFmt( const Msg: string; Params: array of const))
16414: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
16415: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
16416: Procedure ShowSearchDialog( const Directory : string)
16417: Procedure ShowSpecChars1Click( Sender : TObject)
16418: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
16419: Procedure ShredFile( const FileName : string; Times : Integer)
16420: procedure Shuffle(vQ: TStringList);
16421: Procedure ShuffleList( var List : array of Integer; Count : Integer)
16422: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
16423: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
16424: Procedure SinCosE( X : Extended; out Sin, Cos : Extended)
16425: Procedure Site( const ACommand : string)
16426: Procedure SkipEOL
16427: Procedure Sleep( ATime : cardinal)
16428: Procedure Sleep( milliseconds : Cardinal)
16429: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
16430: Procedure Slinenumbers1Click( Sender : TObject)
16431: Procedure Sort
16432: Procedure SortColorArray(ColorArray:TColorArray;L,R:Integer;SortType:TColorArraySortType;Reverse:Boolean)
16433: procedure Speak(const sText: string) //async like voice
16434: procedure Speak2(const sText: string) //sync
16435: procedure Split(Str: string; SubStr: string; List: TStringList);
16436: Procedure SplitNameValue( const Line : string; var Name, Value : string)
16437: Procedure SplitColumns( const AData : String; AStrings : TStringList; const ADelim : String)
16438: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStringList; const ADelim : String)
16439: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStringList)
16440: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
16441: procedure SQLSyntax1Click(Sender: TObject);
16442: Procedure SRand( Seed : RNG_IntType)
16443: Procedure Start
16444: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
16445: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringList);
16446: Procedure StartTransaction( TransDesc : TTransactionDesc)
16447: Procedure Status( var AStatusList : TStringList)
16448: Procedure StatusBar1Click( Sender : TObject)
16449: Procedure StepIn1Click( Sender : TObject)
16450: Procedure StepIt
16451: Procedure StepOut1Click( Sender : TObject)
16452: Procedure Stop
16453: procedure stopmp3;
16454: procedure StartWeb(aurl: string);
16455: Procedure Str(aint: integer; astr: string); //of system
16456: Procedure StrDispose( Str : PChar)
16457: procedure StrDispose(Str: PChar)
16458: Procedure StrReplace(var Str: String; Old, New: String);
16459: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
16460: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
16461: Procedure StringToBytes( Value : String; Bytes : array of byte)
16462: procedure StrSet(c : Char; I : Integer; var s : String);
16463: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStringList);
16464: Procedure StructureMount( APath : String)
16465: procedure STYLECHANGED(SENDER:TObject)
16466: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
16467: procedure Succ(X: integer);
16468: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
16469: procedure SwapChar(var X,Y: char); //swapX follows
16470: Procedure SwapFloats( var X, Y : Float)
16471: procedure SwapGrid(grd: TStringGrid);

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16472: Procedure SwapOrd( var I, J : Byte);
16473: Procedure SwapOrd( var X, Y : Integer)
16474: Procedure SwapOrd1( var I, J : Shortint);
16475: Procedure SwapOrd2( var I, J : Smallint);
16476: Procedure SwapOrd3( var I, J : Word);
16477: Procedure SwapOrd4( var I, J : Integer);
16478: Procedure SwapOrd5( var I, J : Cardinal);
16479: Procedure SwapOrd6( var I, J : Int64);
16480: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
16481: Procedure Synchronizel( Method : TMethod);
16482: procedure SyntaxCheck1Click(Sender: TObject);
16483: Procedure SysFreeString(const S: WideString); stdcall;
16484: Procedure TakeOver( Other : TLinearBitmap)
16485: Procedure Talkln(const sText: string) //async voice
16486: procedure tbtn6resClick(Sender: TObject);
16487: Procedure tbtnUseCaseClick( Sender : TObject)
16488: procedure TerminalStyle1Click(Sender: TObject);
16489: Procedure Terminate
16490: Procedure texSyntax1Click( Sender : TObject)
16491: procedure TextOut(X, Y: Integer; Text: string);
16492: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
16493: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
16494: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
16495: Procedure TextStart
16496: procedure TILe
16497: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
16498: Procedure TitleClick( Column : TColumn)
16499: Procedure ToDo
16500: procedure toolbtnTutorialClick(Sender: TObject);
16501: Procedure Tracel( AURL : string; const AResponseContent : TStream);
16502: Procedure TransferMode( ATransferMode : TIdFTPTransferMode)
16503: Procedure Truncate
16504: procedure Tutorial101Click(Sender: TObject);
16505: procedure Tutorial10Statistics1Click(Sender: TObject);
16506: procedure Tutorial11Forms1Click(Sender: TObject);
16507: procedure Tutorial12SQL1Click(Sender: TObject);
16508: Procedure tutorial1Click( Sender : TObject)
16509: Procedure tutorial21Click( Sender : TObject)
16510: procedure tutorial31Click( Sender : TObject)
16511: Procedure tutorial4Click( Sender : TObject)
16512: Procedure Tutorial5Click( Sender : TObject)
16513: procedure Tutorial6Click(Sender: TObject);
16514: procedure Tutorial91Click(Sender: TObject);
16515: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
16516: procedure UniqueString(var str: AnsiString)
16517: procedure UnloadLoadPackage(Module: HMODULE)
16518: Procedure Unlock
16519: Procedure UNMERGE( MENU : TMAINMENU)
16520: Procedure UnRegisterChanges( Value : TChangeLink)
16521: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
16522: Procedure UnregisterConversionType( const AType : TConvType)
16523: Procedure UnRegisterProvider( Prov : TCustomProvider)
16524: Procedure UPDATE
16525: Procedure UpdateBatch( AffectRecords : TAffectRecords)
16526: Procedure UPDATECURSORSPOS
16527: Procedure UpdateFile
16528: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
16529: Procedure UpdateResponse( AResponse : TWebResponse)
16530: Procedure UpdateScrollBar
16531: Procedure UpdateView1Click( Sender : TObject)
16532: procedure Val(const s: string; var n, z: Integer)
16533: procedure VarArraySet(c: Variant; I : Integer; var s: Variant);
16534: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
16535: Procedure VariantAdd( const src : Variant; var dst : Variant)
16536: Procedure VariantAnd( const src : Variant; var dst : Variant)
16537: Procedure VariantArrayRedim( var V : Variant; High : Integer)
16538: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
16539: Procedure VariantClear( var V : Variant)
16540: Procedure VariantCpy( const src : Variant; var dst : Variant)
16541: Procedure VariantDiv( const src : Variant; var dst : Variant)
16542: Procedure VariantMod( const src : Variant; var dst : Variant)
16543: Procedure VariantMul( const src : Variant; var dst : Variant)
16544: Procedure VariantOr( const src : Variant; var dst : Variant)
16545: Procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer);
16546: Procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer);
16547: Procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer);
16548: Procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer);
16549: Procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer);
16550: Procedure VariantShl( const src : Variant; var dst : Variant)
16551: Procedure VariantShr( const src : Variant; var dst : Variant)
16552: Procedure VariantSub( const src : Variant; var dst : Variant)
16553: Procedure VariantXor( const src : Variant; var dst : Variant)
16554: Procedure VarCastError;
16555: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
16556: Procedure VarInvalidOp
16557: Procedure VarInvalidNullOp
16558: Procedure VarOverflowError( const ASourceType, ADestType : TVarType)
16559: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType)
16560: Procedure VarArrayCreateError

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16561: Procedure VarResultCheck( AResult : HRESULT);
16562: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
16563: Procedure HandleConversionException( const ASourceType, ADestType : TVarType)
16564: Function VarTypeAsText( const AType : TVarType) : string
16565: procedure Voice(const sText: string) //async
16566: procedure Voice2(const sText: string) //sync
16567: Procedure WaitMiliSeconds( AMSec : word)
16568: Procedure WideAppend( var dst : WideString; const src : WideString)
16569: Procedure WideAssign( var dst : WideString; var src : WideString)
16570: Procedure WideDelete( var dst : WideString; index, count : Integer)
16571: Procedure WideFree( var s : WideString)
16572: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
16573: Procedure WideFromPChar( var dst : WideString; src : PChar)
16574: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
16575: Procedure WideSetLength( var dst : WideString; len : Integer)
16576: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
16577: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
16578: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
16579: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
16580: Procedure HttpGet(const Url: string; Stream:TStream);
16581: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIdBytes; Index : integer)
16582: Procedure WordWrap1Click( Sender : TObject)
16583: Procedure Write( const AOut : string)
16584: Procedure Write( Socket : TSocket)
16585: procedure Write(S: string);
16586: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
16587: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
16588: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
16589: procedure WriteBuffer(Buffer:String;Count:LongInt)
16590: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
16591: Procedure WriteChar( AValue : Char)
16592: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
16593: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
16594: Procedure WriteFloat( const Section, Name : string; Value : Double)
16595: Procedure WriteHeader( AHeader : TStrings)
16596: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
16597: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
16598: Procedure WriteLn( const AOut : string)
16599: procedure Writeln(s: string);
16600: Procedure WriteLog( const FileName, LogLine : string)
16601: Procedure WriteRFCReply( AReply : TIdRFCReply)
16602: Procedure WriteRFCStrings( AStrings : TStrings)
16603: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
16604: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASize:Int)
16605: Procedure WriteString( const Section, Ident, Value : string)
16606: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
16607: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
16608: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
16609: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
16610: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
16611: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
16612: procedure XMLSyntax1Click(Sender: TObject);
16613: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
16614: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
16615: Procedure ZeroFillStream( Stream : TMemoryStream)
16616: procedure XMLSyntax1Click(Sender: TObject);
16617: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
16618: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
16619: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
16620: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
16621: procedure(Sender, Source: TObject; X, Y: Integer)
16622: procedure(Sender, Target: TObject; X, Y: Integer)
16623: procedure(Sender: TObject; ASection, AWidth: Integer)
16624: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
16625: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
16626: procedure(Sender: TObject; var Action: TCloseAction)
16627: procedure(Sender: TObject; var CanClose: Boolean)
16628: procedure(Sender: TObject; var Key: Char);
16629: ProcedureName ProcedureNames ProcedureParametersCursor @
16630:
16631: *****Now Constructors constructor *****
16632: Size is: 1231 1115 996 628 550 544 501 459 (381)
16633: Attach( VersionInfoData : Pointer; Size : Integer)
16634: constructor Create( ABuckets : TBucketListSizes)
16635: Create( ACallBackWnd : HWND)
16636: Create( AClient : TCustomTaskDialog)
16637: Create( AClient : TIdTelnet)
16638: Create( ACollection : TCollection)
16639: Create( ACollection : TFavoriteLinkItems)
16640: Create( ACollection : TTaskDialogButtons)
16641: Create( AConnection : TIdCustomHTTP)
16642: Create( ACreateSuspended : Boolean)
16643: Create( ADataSet : TCustomSQLDataSet)
16644: CREATE( ADATASET : TDATASET)
16645: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
16646: Create( AGrid : TCustomDBGrid)
16647: Create( AGrid : TStringGrid; AIndex : Longint)
16648: Create( AHTTP : TIdCustomHTTP)
16649: Create( AListItems : TListItems)

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16650: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
16651: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
16652: Create( AOwner : TCommonCalendar)
16653: Create( AOwner : TComponent)
16654: CREATE( AOWNER : TCOMPONENT)
16655: Create( AOwner : TCustomListView)
16656: Create( AOwner : TCustomOutline)
16657: Create( AOwner : TCustomRichEdit)
16658: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
16659: Create( AOwner : TCustomTreeView)
16660: Create( AOwner : TIdUserManager)
16661: Create( AOwner : TListItems)
16662: Create(
  AOwner:TObject;Handle:hDBICur;CBType:CBType;CBBuf:Ptr;CBBufSize:Int;CallbackEvent:TBDECallbackEvent;
  Chain:Bool)
16663: CREATE( AOWNER : TPERSISTENT)
16664: Create( AOwner : TPersistent)
16665: Create( AOwner : TTable)
16666: Create( AOwner : TTreeNode)
16667: Create( AOwner : TWinControl; const ClassName : string)
16668: Create( AParent : TIdCustomHTTP)
16669: Create( AParent : TUpdateTree; AResolver : TCustomResolver)
16670: Create( AProvider : TBaseProvider)
16671: Create( AProvider : TCustomProvider)
16672: Create( AProvider : TDataSetProvider)
16673: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
16674: Create( ASocket : TSocket)
16675: Create( AStrings : TWideStrings)
16676: Create( AToolBar : TToolBar)
16677: Create( ATreeNode : TTreeNode)
16678: Create( Autofill : boolean)
16679: Create( AWebPageInfo : TAbstractWebPageInfo)
16680: Create( AWebRequest : TWebRequest)
16681: Create( Collection : TCollection)
16682: Create( Collection : TIdMessageParts; ABody : TStrings)
16683: Create( Collection : TIdMessageParts; const AFileName : TFileName)
16684: Create( Column : TColumn)
16685: Create( const AConvFamily : TConvFamily; const ADescription : string)
16686: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
16687: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc)
16688: Create( const AInitialState : Boolean; const AManualReset : Boolean)
16689: Create( const ATabSet : TTabSet)
16690: Create( const Compensate : Boolean)
16691: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
16692: Create( const FileName : string)
16693: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
  : Int64; const SecAttr : PSecurityAttributes)
16694: Create( const FileName : string; FileMode : WordfmsShareDenyWrite)
16695: Create( const MaskValue : string)
16696: Create(const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
16697: Create( const Prefix : string)
16698: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
16699: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
16700: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
16701: Create( CoolBar : TCoolBar)
16702: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
16703: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
16704: Create( DataSet : TDataSet; const
  Text:Widestring;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : Widestring;
  DepFields : TBits; FieldMap : TFieldMap)
16705: Create( DBCtrlGrid : TDBCtrlGrid)
16706: Create( DSTableProducer : TDSTableProducer)
16707: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
16708: Create( ErrorCode : DBIResult)
16709: Create( Field : TBlobField; Mode : TBlobStreamMode)
16710: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
16711: Create( HeaderControl : TCustomHeaderControl)
16712: Create( HTTPRequest : TWebRequest)
16713: Create( iStart : integer; sText : string)
16714: Create( iValue : Integer)
16715: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
16716: Create( MciErrNo : MCIERROR; const Msg : string)
16717: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
16718: Create( Message : string; ErrorCode : DBResult)
16719: Create( Msg : string)
16720: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
16721: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
16722: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
16723: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
16724: Create(oSource:TniRegularExpressState;oDestination:TniRegularExprState;xCharacts:TCharSet;bLambda:bool)
16725: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
16726: Create( Owner : TCustomComboBoxEx)
16727: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXOPTIONS)
16728: Create( Owner : TPersistent)
16729: Create( Params : TStrings)
16730: Create( Size : Cardinal)
16731: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
16732: Create( StatusBar : TCustomStatusBar)

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16733: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
16734: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
16735: Create(AHandle:Integer)
16736: Create(AOwner: TComponent); virtual;
16737: Create(const AURI : string)
16738: Create(FileName:String;Mode:Word)
16739: Create(Instance:THandle;ResName:String;ResType:PChar)
16740: Create(Stream : TStream)
16741: Create( ADataset : TDataset);
16742: Create(const FileHandle:THandle;const Name:string;Protect:Cardinal;const MaximumSize:Int64;const
SecAttr:PSecurityAttributes);
16743: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
16744: Create2( Other : TObject);
16745: CreateAt( FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
16746: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
16747: CreateFmt( MciErrNo : MCIERROR; const Msg : string; const Args : array of const)
16748: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
16749: CreateLinked( DBCtrlGrid : TDBCtrlGrid)
16750: CREATENEW(AOWNER:TCOMPONENT; Dummy: Integer)
16751: CreateRes( Ident : Integer);
16752: CreateRes( MciErrNo : MCIERROR; Ident : Integer)
16753: CreateRes( ResStringRec : PResStringRec);
16754: CreateResHelp( Ident : Integer; AHelpContext : Integer);
16755: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
16756: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
16757: CreateSize( AWidth, AHeight : Integer)
16758: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
16759:
16760: -----
16761: unit uPSI_MathMax;
16762: -----
16763: CONSTANTS
16764: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
16765: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
16766: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
16767: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
16768: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
16769: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(Pi)
16770: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
16771: PiJ: Float = 3.1415926535897932384626433832795; // PI
16772: PI: Extended = 3.1415926535897932384626433832795;
16773: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
16774: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
16775: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
16776: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
16777: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
16778: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
16779: Sqrt10: Float = 3.1622776601683793319988935444327; // Sqrt(10)
16780: SqrtPi: Float = 1.7724538509055160272981674833411; // Sqrt(Pi)
16781: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
16782: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
16783: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
16784: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
16785: Ln10: Float = 2.3025850929940456840179914546844; // Ln(10)
16786: LnPi: Float = 1.1447298858494001741434273513531; // Ln(Pi)
16787: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
16788: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
16789: LogPi: Float = 0.4971498726941338543512682882909; // Log10(Pi)
16790: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
16791: E: Float = 2.7182818284590452353602874713527; // Natural constant
16792: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2*PI)/2
16793: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
16794: TwoToPower63: Float = 9223372036854775808.0; // 2^63
16795: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
16796: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
16797: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
16798: StDelta : Extended = 0.00001; {delta for difference equations}
16799: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
16800: StMaxIterations : Integer = 100; {max attempts for convergence}
16801:
16802: procedure SIRegister_StdConvs(CL: TPSPascalCompiler);
16803: begin
16804: MetersPerInch = 0.0254; // [1]
16805: MetersPerFoot = MetersPerInch * 12;
16806: MetersPerYard = MetersPerFoot * 3;
16807: MetersPerMile = MetersPerFoot * 5280;
16808: MetersPerNauticalMiles = 1852;
16809: MetersPerAstronomicalUnit = 1.49598E11; // [4]
16810: MetersPerLightSecond = 2.99792458E8; // [5]
16811: MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
16812: MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
16813: MetersPerCubit = 0.4572; // [6][7]
16814: MetersPerFathom = MetersPerFoot * 6;
16815: MetersPerFurlong = MetersPerYard * 220;
16816: MetersPerHand = MetersPerInch * 4;
16817: MetersPerPace = MetersPerInch * 30;
16818: MetersPerRod = MetersPerFoot * 16.5;
16819: MetersPerChain = MetersPerRod * 4;
16820: MetersPerLink = MetersPerChain / 100;

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16821: MetersPerPoint = MetersPerInch * 0.013837; // [7]
16822: MetersPerPica = MetersPerPoint * 12;
16823:
16824: SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
16825: SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
16826: SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
16827: SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
16828: SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
16829: SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
16830:
16831: CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
16832: CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
16833: CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
16834: CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
16835: CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
16836: CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
16837: CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
16838: CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
16839:
16840: CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
16841: CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
16842: CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
16843: CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
16844: CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
16845: CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
16846: CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
16847: CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
16848:
16849: CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
16850: CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
16851: CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
16852: CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
16853: CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
16854: CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
16855:
16856: CubicMetersPerUKGallon = 0.00454609; // [2][7]
16857: CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
16858: CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
16859: CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
16860: CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
16861: CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
16862: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
16863: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
16864: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
16865:
16866: GramsPerPound = 453.59237; // [1][7]
16867: GramsPerDrams = GramsPerPound / 256;
16868: GramsPerGrains = GramsPerPound / 7000;
16869: GramsPerTons = GramsPerPound * 2000;
16870: GramsPerLongTons = GramsPerPound * 2240;
16871: GramsPerOunces = GramsPerPound / 16;
16872: GramsPerStones = GramsPerPound * 14;
16873:
16874: MaxAngle', ( 9223372036854775808.0);
16875: MaxTanH', ( 5678.2617031470719747459655389854);
16876: MaxFactorial', 'LongInt').SetInt( 1754);
16877: MaxFloatingPoint', (1.189731495357231765085759326628E+4932);
16878: MinFloatingPoint', (3.3621031431120935062626778173218E-4932);
16879: MaxTanH', ( 354.89135644669199842162284618659);
16880: MaxFactorial', 'LongInt').SetInt( 170);
16881: MaxFloatingPointD', (1.797693134862315907729305190789E+308);
16882: MinFloatingPointD', (2.2250738585072013830902327173324E-308);
16883: MaxTanH', ( 44.361419555836499802702855773323);
16884: MaxFactorial', 'LongInt').SetInt( 33);
16885: MaxFloatingPointS', ( 3.4028236692093846346337460743177E+38);
16886: MinFloatingPointS', ( 1.1754943508222875079687365372222E-38);
16887: PiExt', ( 3.1415926535897932384626433832795);
16888: RatioDegToRad', ( PiExt / 180.0);
16889: RatioGradToRad', ( PiExt / 200.0);
16890: RatioDegToGrad', ( 200.0 / 180.0);
16891: RatioGradToDeg', ( 180.0 / 200.0);
16892: Crc16PolynomCCITT', 'LongWord').SetUInt( $1021);
16893: Crc16PolynomIBM', 'LongWord').SetUInt( $8005);
16894: Crc16Bits', 'LongInt').SetInt( 16);
16895: Crc16Bytes', 'LongInt').SetInt( 2);
16896: Crc16HighBit', 'LongWord').SetUInt( $8000);
16897: NotCrc16HighBit', 'LongWord').SetUInt( $7FFF);
16898: Crc32PolynomIEEE', 'LongWord').SetUInt( $04C11DB7);
16899: Crc32PolynomCastagnoli', 'LongWord').SetUInt( $1EDC6F41);
16900: Crc32Koopman', 'LongWord').SetUInt( $741B8CD7);
16901: Crc32Bits', 'LongInt').SetInt( 32);
16902: Crc32Bytes', 'LongInt').SetInt( 4);
16903: Crc32HighBit', 'LongWord').SetUInt( $80000000);
16904: NotCrc32HighBit', 'LongWord').SetUInt( $7FFFFFFF);
16905:
16906: MinByte = Low(Byte);
16907: MaxByte = High(Byte);
16908: MinWord = Low(Word);
16909: MaxWord = High(Word);

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16910: MinShortInt = Low(ShortInt);
16911: MaxShortInt = High(ShortInt);
16912: MinSmallInt = Low(SmallInt);
16913: MaxSmallInt = High(SmallInt);
16914: MinLongWord = LongWord(Low(LongWord));
16915: MaxLongWord = LongWord(High(LongWord));
16916: MinLongInt = LongInt(Low(LongInt));
16917: MaxLongInt = LongInt(High(LongInt));
16918: MinInt64 = Int64(Low(Int64));
16919: MaxInt64 = Int64(High(Int64));
16920: MinInteger = Integer(Low(Integer));
16921: MaxInteger = Integer(High(Integer));
16922: MinCardinal = Cardinal(Low(Cardinal));
16923: MaxCardinal = Cardinal(High(Cardinal));
16924: MinNativeUInt = NativeUInt(Low(NativeUInt));
16925: MaxNativeUInt = NativeUInt(High(NativeUInt));
16926: MinNativeInt = NativeInt(Low(NativeInt));
16927: MaxNativeInt = NativeInt(High(NativeInt));
16928: Function CosH( const Z : Float ) : Float;
16929: Function SinH( const Z : Float ) : Float;
16930: Function TanH( const Z : Float ) : Float;
16931:
16932:
16933: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
16934: InvLn2 = 1.44269504088896340736; { 1/Ln(2) }
16935: InvLn10 = 0.43429448190325182765; { 1/Ln(10) }
16936: TwoPi = 6.28318530717958647693; { 2*Pi }
16937: PiDiv2 = 1.57079632679489661923; { Pi/2 }
16938: SqrtPi = 1.77245385090551602730; { Sqrt(Pi) }
16939: Sqrt2Pi = 2.50662827463100050242; { Sqrt(2*Pi) }
16940: InvSqrt2Pi = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
16941: LnSqrt2Pi = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
16942: Ln2PiDiv2 = 0.91893853320467274178; { Ln(2*Pi)/2 }
16943: Sqrt2 = 1.41421356237309504880; { Sqrt(2) }
16944: Sqrt2Div2 = 0.70710678118654752440; { Sqrt(2)/2 }
16945: Gold = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
16946: CGold = 0.38196601125010515179; { 2 - GOLD }
16947: MachEp = 2.220446049250313E-16; { 2^(-52) }
16948: MaxNum = 1.797693134862315E+308; { 2^1024 }
16949: MinNum = 2.225073858507202E-308; { 2^(-1022) }
16950: MaxLog = 709.7827128933840;
16951: MinLog = -708.3964185322641;
16952: MaxFac = 170;
16953: MaxGam = 171.624376956302;
16954: MaxLgm = 2.556348E+305;
16955: SingleCompareDelta = 1.0E-34;
16956: DoubleCompareDelta = 1.0E-280;
16957: {$IFDEF CLR}
16958: ExtendedCompareDelta = DoubleCompareDelta;
16959: {$ELSE}
16960: ExtendedCompareDelta = 1.0E-4400;
16961: {$ENDIF}
16962: Bytes1KB = 1024;
16963: Bytes1MB = 1024 * Bytes1KB;
16964: Bytes1GB = 1024 * Bytes1MB;
16965: Bytes64KB = 64 * Bytes1KB;
16966: Bytes64MB = 64 * Bytes1MB;
16967: Bytes2GB = 2 * LongWord(Bytes1GB);
16968: clBlack32', $FF000000 );
16969: clDimGray32', $FF3F3F3F );
16970: clGray32', $FF7F7F7F );
16971: clLightGray32', $FFBFBFBF );
16972: clWhite32', $FFFFFFF );
16973: clMaroon32', $FF7F0000 );
16974: clGreen32', $FF007F00 );
16975: clOlive32', $FF7F7F00 );
16976: clNavy32', $FF00007F );
16977: clPurple32', $FF7F007F );
16978: clTeal32', $FF007F7F );
16979: clRed32', $FFFF0000 );
16980: clLime32', $FF00FF00 );
16981: clYellow32', $FFFFFFF0 );
16982: clBlue32', $FF0000FF );
16983: clFuchsia32', $FFFF00FF );
16984: clAqua32', $FF00FFFF );
16985: clAliceBlue32', $FFF0F8FF );
16986: clAntiqueWhite32', $FFFAEBD7 );
16987: clAquamarine32', $FFF7FFD4 );
16988: clAzure32', $FFF0FFFF );
16989: clBeige32', $FFF5F5DC );
16990: clBisque32', $FFFFE4C4 );
16991: clBlancheDalmont32', $FFFEBECD );
16992: clBlueViolet32', $FF8A2BE2 );
16993: clBrown32', $FFA52A2A );
16994: clBurlyWood32', $FFDEB887 );
16995: clCadetblue32', $FF5F9EAO );
16996: clChartReuse32', $FF7FFF00 );
16997: clChocolate32', $FFD2691E );
16998: clCoral32', $FFF7F500 );

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16999:    clCornFlowerBlue32', $FF6495ED );
17000:    clCornSilk32', $FFFFFF8DC );
17001:    clCrimson32', $FFDC143C );
17002:    clDarkBlue32', $FF00008B );
17003:    clDarkCyan32', $FF008B8B );
17004:    clDarkGoldenRod32', $FFB8860B );
17005:    clDarkGray32', $FFA9A9A9 );
17006:    clDarkGreen32', $FF006400 );
17007:    clDarkGrey32', $FFA9A9A9 );
17008:    clDarkKhaki32', $FFBDB76B );
17009:    clDarkMagenta32', $FF8B008B );
17010:    clDarkOliveGreen32', $FF556B2F );
17011:    clDarkOrange32', $FFFF8C00 );
17012:    clDarkOrchid32', $FF9932CC );
17013:    clDarkRed32', $FF8B0000 );
17014:    clDarkSalmon32', $FFE9967A );
17015:    clDarkSeaGreen32', $FF8FBC8F );
17016:    clDarkSlateBlue32', $FF483D8B );
17017:    clDarkSlateGray32', $FF2F4F4F );
17018:    clDarkSlateGrey32', $FF2F4F4F );
17019:    clDarkTurquoise32', $FF00CED1 );
17020:    clDarkViolet32', $FF9400D3 );
17021:    clDeepPink32', $FFFFF1493 );
17022:    clDeepSkyBlue32', $FF00BFFF );
17023:    clDodgerBlue32', $FF1E90FF );
17024:    clFireBrick32', $FFB22222 );
17025:    clFloralWhite32', $FFFFFFAF0 );
17026:    clGainsboro32', $FFDCDCDC );
17027:    clGhostWhite32', $FFF8F8FF );
17028:    clGold32', $FFFFD700 );
17029:    clGoldenRod32', $FFDAA520 );
17030:    clGreenYellow32', $FFADFF2F );
17031:    clGrey32', $FF808080 );
17032:    clHoneyDew32', $FFF0FFF0 );
17033:    clHotPink32', $FFF669B4 );
17034:    clIndianRed32', $FFCD5C5C );
17035:    clIndigo32', $FF4B0082 );
17036:    clIvory32', $FFFFFFF0 );
17037:    clKhaki32', $FFF0E68C );
17038:    clLavender32', $FFE6E6FA );
17039:    clLavenderBlush32', $FFFFFF0F5 );
17040:    clLawnGreen32', $FF7CFC00 );
17041:    clLemonChiffon32', $FFFFFFACD );
17042:    clLightBlue32', $FFADD8E6 );
17043:    clLightCoral32', $FFF08080 );
17044:    clLightCyan32', $FFE0FFFF );
17045:    clLightGoldenRodYellow32', $FFFACD2 );
17046:    clLightGreen32', $FF90EE90 );
17047:    clLightGrey32', $FFD3D3D3 );
17048:    clLightPink32', $FFFB6C1 );
17049:    clLightSalmon32', $FFFA07A );
17050:    clLightSeagreen32', $FF20B2AA );
17051:    clLightSkyblue32', $FF87CEFA );
17052:    clLightSlategray32', $FF778899 );
17053:    clLightSlategrey32', $FF778899 );
17054:    clLightSteelblue32', $FFB0C4DE );
17055:    clLightYellow32', $FFFFFFE0 );
17056:    clLtGray32', $FFC0C0C0 );
17057:    clMedGray32', $FFA0A0A4 );
17058:    clDkGray32', $FF808080 );
17059:    clMoneyGreen32', $FFC0DCC0 );
17060:    clLegacySkyBlue32', $FFA6CAF0 );
17061:    clCream32', $FFFFF0 );
17062:    clLimeGreen32', $FF32CD32 );
17063:    clLinen32', $FFFAF0E6 );
17064:    clMediumAquamarine32', $FF66CDAA );
17065:    clMediumBlue32', $FF0000CD );
17066:    clMediumOrchid32', $FFBA55D3 );
17067:    clMediumPurple32', $FF9370DB );
17068:    clMediumSeaGreen32', $FF3CB371 );
17069:    clMediumSlateBlue32', $FF7B68EE );
17070:    clMediumSpringGreen32', $FF00FA9A );
17071:    clMediumTurquoise32', $FF48D1CC );
17072:    clMediumVioletRed32', $FFC71585 );
17073:    clMidnightBlue32', $FF191970 );
17074:    clMintCream32', $FFF5FFFA );
17075:    clMistyRose32', $FFFFE4E1 );
17076:    clMoccasin32', $FFFE4B5 );
17077:    clNavajoWhite32', $FFF5DEAD );
17078:    clOldLace32', $FFFD5E6 );
17079:    clOliveDrab32', $FF6B8E23 );
17080:    clOrange32', $FFFA500 );
17081:    clOrangeRed32', $FFFF4500 );
17082:    clOrchid32', $FFDA70D6 );
17083:    clPaleGoldenRod32', $FFEE8AA );
17084:    clPaleGreen32', $FF98FB98 );
17085:    clPaleTurquoise32', $FFAFEEEE );
17086:    clPaleVioletred32', $FFDB7093 );
17087:    clPapayaWhip32', $FFFFEFD5 );
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17088:   clPeachPuff32', $FFFFDAB9 ));
17089:   clPeru32', $FFCD853F ));
17090:   clPlum32', $FFDDA0DD ));
17091:   clPowderBlue32', $FFB0E0E6 ));
17092:   clRosyBrown32', $FFBC8F8F ));
17093:   clRoyalBlue32', $FF4169E1 ));
17094:   clSaddleBrown32', $FF8B4513 ));
17095:   clSalmon32', $FFFA8072 ));
17096:   clSandyBrown32', $FFFA4A60 ));
17097:   clSeaGreen32', $FF2E8B57 ));
17098:   clSeaShell132', $FFFFFF5EE ));
17099:   clSienna32', $FFA0522D ));
17100:   clSilver32', $FFC0C0C0 ));
17101:   clSkyblue32', $FF87CEEB ));
17102:   clSlateBlue32', $FF6A5ACD ));
17103:   clSlateGray32', $FF708090 ));
17104:   clSlateGrey32', $FF708090 ));
17105:   clSnow32', $FFFFFFAFA ));
17106:   clSpringgreen32', $FF00FF7F ));
17107:   clSteelblue32', $FF4682B4 ));
17108:   clTan32', $FFD2B48C ));
17109:   clThistle32', $FFD8BFD8 ));
17110:   clTomato32', $FFFF6347 ));
17111:   clTurquoise32', $FF40E0D0 ));
17112:   clViolet32', $FFEE82EE ));
17113:   clWheat32', $FFF5DEB3 ));
17114:   clWhitesmoke32', $FFF5F5F5 ));
17115:   clYellowgreen32', $FF9ACD32 ));
17116:   clTrWhite32', $7FFFFFFF ));
17117:   clTrBlack32', $7F000000 ));
17118:   clTrRed32', $7FFF0000 ));
17119:   clTrGreen32', $7F00FF00 ));
17120:   clTrBlue32', $7F0000FF ));
17121:   // Fixed point math constants
17122:   FixedOne = $10000; FixedHalf = $7FFF;
17123:   FixedPI = Round(PI * FixedOne);
17124:   FixedToFloat = 1/FixedOne;
17125:
17126:   Special Types
17127:   *****
17128:   type Complex = record
17129:     X, Y : Float;
17130:   end;
17131:   type TVector = array of Float;
17132:   TIntVector = array of Integer;
17133:   TCompVector = array of Complex;
17134:   TBoolVector = array of Boolean;
17135:   TStrVector = array of String;
17136:   TMatrix = array of TVector;
17137:   TIntMatrix = array of TIntVector;
17138:   TCompMatrix = array of TCompVector;
17139:   TBoolMatrix = array of TBoolVector;
17140:   TStrMatrix = array of TStrVector;
17141:   TByteArray = array[0..32767] of byte; !
17142:   THexArray = array [0..15] of Char; // = '0123456789ABCDEF';
17143:   TBitmapStyle = (bsNormal, bsCentered, bsStretched);
17144:   T2StringArray = array of array of string;
17145:   T2IntegerArray = array of array of integer;
17146:   AddTypeS('INT_PTR', 'Integer
17147:   AddTypeS('LONG_PTR', 'Integer
17148:   AddTypeS('UINT_PTR', 'Cardinal
17149:   AddTypeS('ULONG_PTR', 'Cardinal
17150:   AddTypeS('DWORD_PTR', 'ULONG_PTR
17151:   TIntegerDynArray', 'array of Integer
17152:   TCardinalDynArray', 'array of Cardinal
17153:   TWordDynArray', 'array of Word
17154:   TSmallIntDynArray', 'array of SmallInt
17155:   TByteDynArray', 'array of Byte
17156:   TShortIntDynArray', 'array of ShortInt
17157:   TInt64DynArray', 'array of Int64
17158:   TLongWordDynArray', 'array of LongWord
17159:   TSingleDynArray', 'array of Single
17160:   TDoubleDynArray', 'array of Double
17161:   TBooleanDynArray', 'array of Boolean
17162:   TStringDynArray', 'array of string
17163:   TWideStringDynArray', 'array of WideString
17164:   TDynByteArray = array of Byte;
17165:   TDynShortintArray = array of Shortint;
17166:   TDynSmallintArray = array of Smallint;
17167:   TDynWordArray = array of Word;
17168:   TDynIntegerArray = array of Integer;
17169:   TDynLongintArray = array of Longint;
17170:   TDynCardinalArray = array of Cardinal;
17171:   TDynInt64Array = array of Int64;
17172:   TDynExtendedArray = array of Extended;
17173:   TDynDoubleArray = array of Double;
17174:   TDynSingleArray = array of Single;
17175:   TDynFloatArray = array of Float;
17176:   TDynPointerArray = array of Pointer;

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17177: TDynStringArray = array of string;
17178: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
17179:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
17180: TSynSearchOptions = set of TSynSearchOption;
17181:
17182:
17183:
17184: /** Project : Base Include RunTime Lib for maXbox *Name: pas_includebox.inc
17185: -----
17186: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
17187: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
17188: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
17189: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
17190: function CheckStringSum(vstring: string): integer;
17191: function HexToInt(HexNum: string): LongInt;
17192: function IntToBin(Int: Integer): String;
17193: function BinToInt(Binary: String): Integer;
17194: function HexToBin(HexNum: string): string; external2
17195: function BinToHex(Binary: String): string;
17196: function IntToFloat(i: Integer): double;
17197: function AddThousandSeparator(S: string; myChr: Char): string;
17198: function Max3(const X,Y,Z: Integer): Integer;
17199: procedure Swap(var X,Y: char); // faster without inline
17200: procedure ReverseString(var S: string);
17201: function CharToHexStr(Value: Char): string;
17202: function CharToUnicode(Value: Char): string;
17203: function Hex2Dec(Value: Str002): Byte;
17204: function HexStrCodeToStr(Value: string): string;
17205: function HexToStr(i: integer; value: string): string;
17206: function UnicodeToStr(Value: string): string;
17207: function CRC16(statement: string): string;
17208: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
17209: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
17210: procedure ShowInterfaces(myFile: string);
17211: function Fact2(av: integer): extended;
17212: function BoolToStr(B: Boolean): string;
17213: function GCD(x, y : LongInt) : LongInt;
17214: function LCM(m,n: longint): longint;
17215: function GetASCII: string;
17216: function GetItemHeight(Font: TFont): Integer;
17217: function myPlaySound(s: pchar; flag, syncflag: integer): boolean;
17218: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
17219: function getHINSTANCE: longword;
17220: function getHMODULE: longword;
17221: function GetASCII: string;
17222: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
17223: function WordIsOk(const AWord: string; var VW: Word): boolean;
17224: function TwentyFourBitValueIsOk(const AValue: string; var VI: Integer): boolean;
17225: function LongIsOk(const ALong: string; var VC: Cardinal): boolean;
17226: function SafeStr(const s: string): string;
17227: function ExtractUrlPath(const FileName: string): string;
17228: function ExtractUrlName(const FileName: string): string;
17229: function IsInternet: boolean;
17230: function RotateLeft1Bit_u32( Value: uint32): uint32;
17231: procedure LinearRegression(const KnownY: array of Double; const KnownX: array of Double; NData: Int; var
  LF: TStLinEst; ErrorStats : Boolean);
17232: procedure getEnvironmentInfo;
17233: procedure AntiFreeze;
17234: function GetCPUSpeed: Double;
17235: function IsVirtualPcGuest : Boolean;
17236: function IsVmWareGuest : Boolean;
17237: procedure StartSerialDialog;
17238: function IsWoW64: boolean;
17239: function IsWow64String(var s: string): Boolean;
17240: procedure StartThreadDemo;
17241: function RGB(R,G,B: Byte): TColor;
17242: function Sendln(amess: string): boolean;
17243: procedure maXbox;
17244: function AspectRatio(aWidth, aHeight: Integer): String;
17245: function wget(aURL, afile: string): boolean;
17246: procedure PrintList(Value: TStringList);
17247: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
17248: procedure getEnvironmentInfo;
17249: procedure AntiFreeze;
17250: function getBitmap(apath: string): TBitmap;
17251: procedure ShowMessageBig(const aText : string);
17252: function YesNoDialog(const ACaption, AMsg: string): boolean;
17253: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
17254: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
17255: //function myStrToBytes(const Value: String): TBytes;
17256: //function myBytesToStr(const Value: TBytes): String;
17257: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
17258: function getBitmap(apath: string): TBitmap;
17259: procedure ShowMessageBig(const aText : string);
17260: function StrToBytes(const Value: String): TBytes;
17261: function BytesToStr(const Value: TBytes): String;
17262: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
17263: function ReverseDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int;var
  HostName:String):Bool;

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17264: function FindInPaths(const fileName, paths : String) : String;
17265: procedure InitHexArray(var hexn: THexArray);
17266: function JosephusG(n,k: integer; var graphout: string): integer;
17267: function IsPowerOf2(num: int64): boolean;
17268: function PowerOf2(exponent: integer): int64;
17269: function GetBigPI: string;
17270: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
17271: function GetASCIILine: string;
17272: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
17273:     pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
17274: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
17275: procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
17276: function MapFunc(ax, in_min, in_max, out_min, out_max: integer): integer;
17277: function MapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
17278: function IsKeyPressed: boolean;
17279: function KeyPress: boolean;
17280: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
17281: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
17282: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
17283: function GetOSName: string;
17284: function GetOSVersion: string;
17285: function GetOSNumber: string;
17286: function GetEnvironmentString: string;
17287: procedure StrReplace(var Str: String; Old, New: String);
17288: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17289: function GetTeamViewerID: string;
17290: procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
17291: procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
17292: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
17293: procedure GetQRCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
17294: function StartSocketService: Boolean;
17295: procedure StartSocketServiceForm;
17296: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
17297: function GetFileList1(apath: string): TStringlist;
17298: procedure LetFileList(FileList: TStringlist; apath: string);
17299: procedure StartWeb(aurl: string);
17300: function GetTodayFiles(startdir, amask: string): TStringlist;
17301: function PortTCPisOpen(dwPort : Word; ipAddressStr: String): boolean;
17302: function JavahashCode(val: string): Integer;
17303: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
17304: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
17305: procedure HideWindowForSeconds(secs: integer); { //3 seconds}
17306: procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); { //3 seconds}
17307: procedure ConvertToGray(Cnv: TCanvas);
17308: function GetFileDate(aFile:string; aWithTime:Boolean):string;
17309: procedure ShowMemory;
17310: function ShowMemory2: string;
17311: function GetHostIP: string;
17312: procedure ShowBitmap(bmap: TBitmap);
17313: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
17314:
17315:
17316: // News of 3.9.8 up
17317: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
17318: Conversion Routines, Prebuild Forms, more RCDData, DebugOutString
17319: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
17320: JvChart - TjvChart Component - 2009 Public
17321: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
17322: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
17323: TAdoQuery.SQL.Add() fixed, ShLwAPI extensions, Indy HTTPHeader Extensions
17324: DMath DLL included incl. Demos
17325: Interface Navigator menu/View/Intf Navigator
17326: Unit Explorer menu/Debug/Units Explorer
17327: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maxXcel
17328: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
17329: Script History to 9 Files WebServer light /Options/Addons/WebServer
17330: Full Text Finder, JVSImLogic Simulator Package
17331: Halt-Stop Program in Menu, WebServer2, Stop Event ,
17332: Conversion Routines, Prebuild Forms, CodeSearch
17333: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
17334: Conversion Routines, Prebuild Forms, more RCDData, DebugOutString
17335: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
17336: JvChart - TjvChart Component - 2009 Public, mXGames, JvgXMLSerializer, TjvPaintFX
17337: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
17338: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
17339: IDE Reflection API, Session Service Shell S3
17340: additional SynEdit API, IsKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
17341: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
17342: arduino map() function, PMRandom Generator
17343: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
17344: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
17345: REST Test Lib, Multilang Component, Forth Interpreter
17346: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
17347: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
17348: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
17349: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
17350: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
17351: QRCode Service, add more CFunctions like CDateTime of Synapse
17352: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL

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17353: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
17354: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
17355: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
17356: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
17357: BOLD Package, Indy Package5, maTRiX, MATHEMAX
17358: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
17359: emax layers: system-package-component-unit-class-function-block
17360: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
17361: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
17362: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
17363: OpenGL Game Demo: ..Options/Add Ons/Reversi
17364: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
17365: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
17366: 7% performance gain (hot spot profiling)
17367: PEP -Pascal Education Program, GSM Module, CGI, PHP Runner
17368: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
17369: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
17370: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
17371:
17372: add routines in 3.9.7.5
17373: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSExec);
17374: 996: procedure RIRegister_DBCtrls_Routines(S: TPSExec);
17375: 069: procedure RIRegister_IdStrings_Routines(S: TPSExec);
17376: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSExec);
17377: 215: procedure RIRegister_PNGLoader_Routines(S: TPSExec);
17378: 374: procedure RIRegister_SerDlgs_Routines(S: TPSExec);
17379: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSExec);
17380:
17381: ////////////////////////////////// TestUnits //////////////////////////////////
17382: SelftestPEM;
17383: SelfTestCFundamentUtils;
17384: SelfTestCFileUtils;
17385: SelfTestCDateTime;
17386: SelfTestCTimer;
17387: SelfTestCRandom;
17388: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter
17389: Assert(WinPathToUnixPath('c\d.f') = '/c/d.f', 'WinPathToUnixPath
17390:
17391: // Note: There's no need for installing a client certificate in the
17392: // webbrowser. The server asks the webbrowser to send a certificate but
17393: // if nothing is installed the software will work because the server
17394: // doesn't check to see if a client certificate was supplied. If you want you can install:
17395: //
17396: // file: c_cacert.p12
17397: // password: c_cakey
17398:
17399: TGraphicControl = class(TControl)
17400: private
17401: FCanvas: TCanvas;
17402: procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
17403: protected
17404: procedure Paint; virtual;
17405: property Canvas: TCanvas read FCanvas;
17406: public
17407: constructor Create(AOwner: TComponent); override;
17408: destructor Destroy; override;
17409: end;
17410:
17411: TCustomControl = class(TWinControl)
17412: private
17413: FCanvas: TCanvas;
17414: procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
17415: protected
17416: procedure Paint; virtual;
17417: procedure PaintWindow(DC: HDC); override;
17418: property Canvas: TCanvas read FCanvas;
17419: public
17420: constructor Create(AOwner: TComponent); override;
17421: destructor Destroy; override;
17422: end;
17423: RegisterPublishedProperties;
17424: ('ONCHANGE', 'TNotifyEvent', iptrw);
17425: ('ONCLICK', 'TNotifyEvent', iptrw);
17426: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
17427: ('ONENTER', 'TNotifyEvent', iptrw);
17428: ('ONEXIT', 'TNotifyEvent', iptrw);
17429: ('ONKEYDOWN', 'TKeyEvent', iptrw);
17430: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
17431: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
17432: ('ONMOUSEMOVE', 'TMouseMoveEvent', iptrw);
17433: ('ONMOUSEUP', 'TMouseEvent', iptrw);
17434: //*****
17435: // To stop the while loop, click on Options/Show Include (boolean switch)!
17436: Control a loop in a script with a form event:
17437: IncludeON; //control the while loop
17438: while maxform1.ShowInclude1.checked do begin //menu event Options/Show Include
17439:
17440: //-----
17441: //*****mX4 ini-file Configuration*****

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17442: //-----
17443: using config file maxboxdef.ini          menu/Help/Config File
17444:
17445: **** Definitions for maXbox mX3 ****
17446: [FORM]
17447: LAST_FILE=E:\maXbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
17448: FONTSIZE=14
17449: EXTENSION=txt
17450: SCREENX=1386
17451: SCREENY=1077
17452: MEMHEIGHT=350
17453: PRINTFONT=Courier New //GUI Settings
17454: LINENUMBERS=Y //line numbers at gutter in editor at left side
17455: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! - menu Debug/Show Last Exceptions
17456: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
17457: BOOTSCRIPT=Y //enabling load a boot script
17458: MEMORYREPORT=Y //shows memory report on closing maXbox
17459: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox\maxbox3\docs\
17460: NAVIGATOR=N //shows function list at the right side of editor
17461: NAVWIDTH=350 //width of the right side interface list <CTRL L>
17462: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
17463: [WEB]
17464: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
17465: IPHOST=192.168.1.53
17466: ROOTCERT=filepathY
17467: SCERT=filepathY
17468: RSAKEY=filepathY
17469: VERSIONCHECK=Y
17470:
17471: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
17472:
17473: Also possible to set report memory in script to override ini setting
17474: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
17475:
17476:
17477: After Change the ini file you can reload the file with ../Help/Config Update
17478:
17479: //-----
17480: *****mX4 maildef.ini ini-file Configuration*****
17481: //-----
17482: **** Definitions for maXMail ****
17483: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
17484: [MAXMAIL]
17485: HOST=getmail.softwareschule.ch
17486: USER=mailusername
17487: PASS=password
17488: PORT=110
17489: SSL=Y
17490: BODY=Y
17491: LAST=5
17492:
17493: ADO Connection String:
17494: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
17495:
17496: OpenSSL Lib: unit ssl_openssl_lib;
17497: {$IFDEF CIL}
17498: const
17499:   {$IFDEF LINUX}
17500:     DLLSSLName = 'libssl.so';
17501:     DLLUtilName = 'libcrypto.so';
17502:   {$ELSE}
17503:     DLLSSLName = 'ssleay32.dll';
17504:     DLLUtilName = 'libey32.dll';
17505:   {$ENDIF}
17506: {$ELSE}
17507: var
17508:   {$IFDEF MSWINDOWS}
17509:     {$IFDEF DARWIN}
17510:       DLLSSLName: string = 'libssl.dylib';
17511:       DLLUtilName: string = 'libcrypto.dylib';
17512:     {$ELSE}
17513:       DLLSSLName: string = 'libssl.so';
17514:       DLLUtilName: string = 'libcrypto.so';
17515:     {$ENDIF}
17516:   {$ELSE}
17517:     DLLSSLName: string = 'ssleay32.dll';
17518:     DLLSSLName2: string = 'libssl32.dll';
17519:     DLLUtilName: string = 'libey32.dll';
17520:   {$ENDIF}
17521: {$ENDIF}
17522:
17523:
17524:
17525: //-----
17526: *****mX4 Macro Tags *****
17527: //-----
17528:
17529: asm #name #hostmAPSN2APSN2111e, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt end

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17530:
17531: //Tag Macros
17532:
17533:     asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
17534:
17535: //Tag Macros
17536: 10188: SearchAndCopy(mem01.lines, '#name',.getUserNameWin, 11);
17537: 10189: SearchAndCopy(mem01.lines, '#date', datetimetToStr(now), 11);
17538: 10190: SearchAndCopy(mem01.lines, '#host', getComputernameWin, 11);
17539: 10191: SearchAndCopy(mem01.lines, '#path', fpath, 11);
17540: 10192: SearchAndCopy(mem01.lines, '#file', fname, 11);
17541: 10199: SearchAndCopy(mem01.lines, '#files', fname + ' ' + SHA1(Act_FileName), 11);
17542: 10193: SearchAndCopy(mem01.lines, '#locs', intToStr(getCodeEnd), 11);
17543: 10194: SearchAndCopy(mem01.lines, '#perf', perfTime, 11);
17544: 10195: SearchAndCopy(mem01.lines, '#sign', Format('%s: %s: %s',
17545:     [getUserNameWin, getComputernameWin, datetimetToStr(now),
17546: 10196: SearchAndCopy(mem01.lines, '#head', Format('%s: %s: %s %s ',
17547: 10197: [getUserNameWin, getComputernameWin, datetimetToStr(now), Act_FileName]), 11);
17548: [getUserNameWin, getComputernameWin, datetimetToStr(now), Act_FileName]), 11);
17549: 10198: SearchAndCopy(mem01.lines, '#tech', Format('perf: %s threads: %d %s %s',
17550: [perfTime, numprocessthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
17551: 10298: SearchAndCopy(mem01.lines, '#net', Format('DNS: %s; local IPs: %s; local IP: %s',
17552: [getDNS, GetLocalIPs, getIPAddress(getComputerNameWin)], 10);
17553:
17554: // #tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
17555:
17556: //Replace Macros
17557: SearchAndCopy(mem01.lines, '<TIME>', timetoStr(time), 6);
17558: SearchAndCopy(mem01.lines, '<DATE>', datetimetToStr(date), 6);
17559: SearchAndCopy(mem01.lines, '<PATH>', fpath, 6);
17560: SearchAndCopy(mem01.lines, '<EXEPATH>', EXEPATH, 9);
17561: SearchAndCopy(mem01.lines, '<FILE>', fname, 6);
17562: SearchAndCopy(mem01.lines, '<SOURCE>', ExePath+'Source', 8);
17563:
17564: 10198: SearchAndCopy(mem01.lines, '#tech!perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
17565:     [perfTime, numprocessthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
17566: // #tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
17567: SearchAndCopy(mem01.lines, 'maxbox_extract_funclist399.txt
17568:
17569: //-----
17570: //*****mX4 ToDo List Tags ../Help/ToDo List*****
17571: //-----
17572:
17573: while I < sl.Count do begin
17574: // if MatchesMask(sl[I], '/*/? TODO ([a-z0-9_]*#[1-9#]*:*)') then
17575: if MatchesMask(sl[I], '/*/? TODO (?*#?#)*:*)') then
17576:     BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
17577: else if MatchesMask(sl[I], '/*/? DONE (?*#?#)*:*)') then
17578:     BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
17579: else if MatchesMask(sl[I], '/*/? TODO (?*#?#)*:*)') then
17580:     BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
17581: else if MatchesMask(sl[I], '/*/? DONE (?*#?#)*:*)') then
17582:     BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
17583: else if MatchesMask(sl[I], '/*/?*TODO*:*)') then
17584:     BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
17585: else if MatchesMask(sl[I], '/*/?*DONE*:*)') then
17586:     BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
17587: Inc(I);
17588: end;
17589:
17590:
17591: //-----
17592: //*****mX4 Public Tools API *****
17593: //-----
17594: file : unit uPSI_fMain.pas; {SOTAP} Open Tools API Catalog
17595: // Those functions concern the editor and preprocessor, all of the IDE
17596: Example: Call it with maxform1.InfoClick(self)
17597: Note: Call all Methods with maxForm1., e.g.:
17598:     maxForm1.ShellStyle1Click(self);
17599:
17600: procedure SIRegister_fMain(CL: TPSPascalCompiler);
17601: begin
17602:     Const('BYTECODE', 'String').SetString( 'bytecode.txt
17603:     Const('PSTEXT', 'String').SetString( 'PS Scriptfiles (*.txt)|*.TXT
17604:     Const('PSMODEL', 'String').SetString( 'PS Modelfiles (*.uc)|*.UC
17605:     Const('PSPASCAL', 'String').SetString( 'PS Pascalfiles (*.pas)|*.PAS
17606:     Const('PSINC', 'String').SetString( 'PS Includes (*.inc)|*.INC
17607:     Const('DEFFILENAME', 'String').SetString( 'firstdemo.txt
17608:     Const('DEFINIFILE', 'String').SetString( 'maxboxdef.ini
17609:     Const('EXCEPTLOGFILE', 'String').SetString( 'maxboxerrorlog.txt
17610:     Const('ALLFUNCTIONSLIST', 'String').SetString( 'upsi_allfunctionslist.txt
17611:     Const('ALLFUNCTIONSLISTPDF', 'String').SetString( 'maxbox_functions_all.pdf
17612:     Const('ALLOBJECTSLIST', 'String').SetString( 'docs\VCL.pdf
17613:     Const('ALLRESOURCELIST', 'String').SetString( 'docs\upsi_allresourcelist.txt
17614:     Const('ALLUNITLIST', 'String').SetString( 'docs\maxbox3.9.xml');
17615:     Const('INCLUDEBOX', 'String').SetString( 'pas_includebox.inc
17616:     Const('BOOTSCRIPT', 'String').SetString( 'maxbootscript.txt
17617:     Const('MBVERSION', 'String').SetString( '3.9.9.92
17618:     Const('VERSION', 'String').SetString( '3.9.9.92

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17619: Const('MBVER', 'String').SetString( '399
17620: Const('MBVERI', 'Integer').SetInt(399);
17621: Const('MBVERIALL', 'Integer').SetInt(39992);
17622: Const('EXENAME', 'String').SetString( 'maxbox3.exe
17623: Const('MXSITE', 'String').SetString( 'http://www.softwareschule.ch/maxbox.htm
17624: Const('MXVERSIONFILE', 'String').SetString( 'http://www.softwareschule.ch/maxvfile.txt
17625: Const('MXINTERNETCHECK', 'String').SetString( 'www.ask.com
17626: Const('MXMAIL', 'String').SetString( 'max@kleiner.com
17627: Const('TAB', 'Char').SetString( #09);
17628: Const('CODECOMPLETION', 'String').SetString( 'bds_delphi.dci
17629: SIRegister_TMaxForm1(CL);
17630: end;
17631:
17632: with FindClass('TForm', 'TMaxForm1') do begin
17633:   memo2', 'TMemo', iptrw);
17634:   memo1', 'TSynMemo', iptrw);
17635:   CB1SCList', 'TComboBox', iptrw);
17636:   mxNavigator', 'TComboBox', iptrw);
17637:   IPhost', 'string', iptrw);
17638:   IPPort', 'integer', iptrw);
17639:   COMPort', 'integer', iptrw); //3.9.6.4
17640:   Splitter1', 'TSplitter', iptrw);
17641:   PSScript', 'TPSScript', iptrw);
17642:   PS3DllPlugin', 'TPSDllPlugin', iptrw);
17643:   MainMenu1', 'TMainMenu', iptrw);
17644:   Program1', 'TMenuItem', iptrw);
17645:   Compile1', 'TMenuItem', iptrw);
17646:   Files1', 'TMenuItem', iptrw);
17647:   open1', 'TMenuItem', iptrw);
17648:   Save2', 'TMenuItem', iptrw);
17649:   Options1', 'TMenuItem', iptrw);
17650:   Savebefore1', 'TMenuItem', iptrw);
17651:   Largefont1', 'TMenuItem', iptrw);
17652:   sBytecodel', 'TMenuItem', iptrw);
17653:   Saveas3', 'TMenuItem', iptrw);
17654:   Clear1', 'TMenuItem', iptrw);
17655:   Slinenumber1', 'TMenuItem', iptrw);
17656:   About1', 'TMenuItem', iptrw);
17657:   Search1', 'TMenuItem', iptrw);
17658:   SynPasSyn1', 'TSynPasSyn', iptrw);
17659:   memo1', 'TSynMemo', iptrw);
17660:   SynEditSearch1', 'TSynEditSearch', iptrw);
17661:   WordWrap1', 'TMenuItem', iptrw);
17662:   XPManifest1', 'TXPManifest', iptrw);
17663:   SearchNext1', 'TMenuItem', iptrw);
17664:   Replacel', 'TMenuItem', iptrw);
17665:   PSImport_Controls1', 'TPSImport_Controls', iptrw);
17666:   PSImport_Classes1', 'TPSImport_Classes', iptrw);
17667:   ShowIncludel', 'TMenuItem', iptrw);
17668:   SynEditPrint1', 'TSynEditPrint', iptrw);
17669:   Printout1', 'TMenuItem', iptrw);
17670:   mnPrintColors1', 'TMenuItem', iptrw);
17671:   dlgFilePrint', 'TPrintDialog', iptrw);
17672:   dlgPrintFont1', 'TFontDialog', iptrw);
17673:   mnuPrintFont1', 'TMenuItem', iptrw);
17674:   Includel', 'TMenuItem', iptrw);
17675:   CodeCompletionList1', 'TMenuItem', iptrw);
17676:   IncludeList1', 'TMenuItem', iptrw);
17677:   ImageList1', 'TImageList', iptrw);
17678:   ImageList2', 'TImageList', iptrw);
17679:   CoolBar1', 'TCoolBar', iptrw);
17680:   ToolBar1', 'TToolBar', iptrw);
17681:   tbtnLoad', 'TToolButton', iptrw);
17682:   ToolButton2', 'TToolButton', iptrw);
17683:   tbtnFind', 'TToolButton', iptrw);
17684:   tbtnCompile', 'TToolButton', iptrw);
17685:   tbtnTrans', 'TToolButton', iptrw);
17686:   tbtnUseCase', 'TToolButton', iptrw); //3.8
17687:   toolbtnTutorial', 'TToolButton', iptrw);
17688:   tbtn6res', 'TToolButton', iptrw);
17689:   ToolButton5', 'TToolButton', iptrw);
17690:   ToolButton1', 'TToolButton', iptrw);
17691:   ToolButton3', 'TToolButton', iptrw);
17692:   statusBar1', 'TStatusBar', iptrw);
17693:   SaveOutput1', 'TMenuItem', iptrw);
17694:   ExportClipboard1', 'TMenuItem', iptrw);
17695:   Close1', 'TMenuItem', iptrw);
17696:   Manual1', 'TMenuItem', iptrw);
17697:   About2', 'TMenuItem', iptrw);
17698:   loadLastfile1', 'TMenuItem', iptrw);
17699:   imglogo', 'TImage', iptrw);
17700:   cedebug', 'TPSScriptDebugger', iptrw);
17701:   debugPopupMenu1', 'TPopupMenu', iptrw);
17702:   BreakPointMenu', 'TMenuItem', iptrw);
17703:   Decompile1', 'TMenuItem', iptrw);
17704:   StepInto1', 'TMenuItem', iptrw);
17705:   StepOut1', 'TMenuItem', iptrw);
17706:   Reset1', 'TMenuItem', iptrw);
17707:   DebugRun1', 'TMenuItem', iptrw);

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17708: PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
17709: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
17710: PSImport_Forms1', 'TPSImport_Forms', iptrw);
17711: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
17712: tutorial4', 'TMenuItem', iptrw);
17713: ExporttoClipboard1', 'TMenuItem', iptrw);
17714: ImportfromClipboard1', 'TMenuItem', iptrw);
17715: N4', 'TMenuItem', iptrw);
17716: N5', 'TMenuItem', iptrw);
17717: N6', 'TMenuItem', iptrw);
17718: ImportfromClipboard2', 'TMenuItem', iptrw);
17719: tutorial1', 'TMenuItem', iptrw);
17720: N7', 'TMenuItem', iptrw);
17721: ShowSpecChars1', 'TMenuItem', iptrw);
17722: OpenDirectory1', 'TMenuItem', iptrw);
17723: procMess', 'TMenuItem', iptrw);
17724: tbtnUseCase', 'TToolButton', iptrw);
17725: ToolButton7', 'TToolButton', iptrw);
17726: EditFont1', 'TMenuItem', iptrw);
17727: UseCase1', 'TMenuItem', iptrw);
17728: tutorial21', 'TMenuItem', iptrw);
17729: OpenUseCase1', 'TMenuItem', iptrw);
17730: PSImport_DB1', 'TPSImport_DB', iptrw);
17731: tutorial31', 'TMenuItem', iptrw);
17732: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
17733: HTMLSyntax1', 'TMenuItem', iptrw);
17734: ShowInterfaces1', 'TMenuItem', iptrw);
17735: Tutorial5', 'TMenuItem', iptrw);
17736: AllFunctionsList1', 'TMenuItem', iptrw);
17737: ShowLastException1', 'TMenuItem', iptrw);
17738: PlayMP31', 'TMenuItem', iptrw);
17739: SynTeXSyn1', 'TSynTeXSyn', iptrw);
17740: texSyntax1', 'TMenuItem', iptrw);
17741: N8', 'TMenuItem', iptrw);
17742: GetEMails1', 'TMenuItem', iptrw);
17743: SynCppSyn1', 'TSynCppSyn', iptrw);
17744: CSyntax1', 'TMenuItem', iptrw);
17745: Tutorial6', 'TMenuItem', iptrw);
17746: New1', 'TMenuItem', iptrw);
17747: AllObjectsList1', 'TMenuItem', iptrw);
17748: LoadBytecode1', 'TMenuItem', iptrw);
17749: CipherFile1', 'TMenuItem', iptrw);
17750: N9', 'TMenuItem', iptrw);
17751: N10', 'TMenuItem', iptrw);
17752: Tutorial111', 'TMenuItem', iptrw);
17753: Tutorial71', 'TMenuItem', iptrw);
17754: UpdateService1', 'TMenuItem', iptrw);
17755: PascalSchool1', 'TMenuItem', iptrw);
17756: Tutorial81', 'TMenuItem', iptrw);
17757: DelphiSite1', 'TMenuItem', iptrw);
17758: Output1', 'TMenuItem', iptrw);
17759: TerminalStyle1', 'TMenuItem', iptrw);
17760: ReadOnly1', 'TMenuItem', iptrw);
17761: ShellStyle1', 'TMenuItem', iptrw);
17762: BigScreen1', 'TMenuItem', iptrw);
17763: Tutorial91', 'TMenuItem', iptrw);
17764: SaveOutput2', 'TMenuItem', iptrw);
17765: N11', 'TMenuItem', iptrw);
17766: SaveScreenshot', 'TMenuItem', iptrw);
17767: Tutorial101', 'TMenuItem', iptrw);
17768: SQLSyntax1', 'TMenuItem', iptrw);
17769: SynSQLSyn1', 'TSynSQLSyn', iptrw);
17770: Console1', 'TMenuItem', iptrw);
17771: SynXMLSyn1', 'TSynXMLSyn', iptrw);
17772: XMLSyntax1', 'TMenuItem', iptrw);
17773: ComponentCount1', 'TMenuItem', iptrw);
17774: NewInstancel', 'TMenuItem', iptrw);
17775: toolbtnTutorial', 'TToolButton', iptrw);
17776: Memory1', 'TMenuItem', iptrw);
17777: SynJavaSyn1', 'TSynJavaSyn', iptrw);
17778: JavaSyntax1', 'TMenuItem', iptrw);
17779: SyntaxCheck1', 'TMenuItem', iptrw);
17780: Tutorial10Statistics1', 'TMenuItem', iptrw);
17781: ScriptExplorer1', 'TMenuItem', iptrw);
17782: FormOutput1', 'TMenuItem', iptrw);
17783: ArduinoDump1', 'TMenuItem', iptrw);
17784: AndroidDump1', 'TMenuItem', iptrw);
17785: GotoEnd1', 'TMenuItem', iptrw);
17786: AllResourceList1', 'TMenuItem', iptrw);
17787: ToolButton4', 'TToolButton', iptrw);
17788: tbtn6res', 'TToolButton', iptrw);
17789: Tutorial11Forms1', 'TMenuItem', iptrw);
17790: Tutorial12SQL1', 'TMenuItem', iptrw);
17791: ResourceExplorel', 'TMenuItem', iptrw);
17792: Infol', 'TMenuItem', iptrw);
17793: N12', 'TMenuItem', iptrw);
17794: CryptoBox1', 'TMenuItem', iptrw);
17795: Tutorial13Ciphering1', 'TMenuItem', iptrw);
17796: CipherFile2', 'TMenuItem', iptrw);

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17797: N13', 'TMenuItem', iptrw);
17798: ModulesCount1', 'TMenuItem', iptrw);
17799: AddOns2', 'TMenuItem', iptrw);
17800: N4GewinntGame1', 'TMenuItem', iptrw);
17801: DocuforAddOns1', 'TMenuItem', iptrw);
17802: Tutorial14Async1', 'TMenuItem', iptrw);
17803: Lessons15Review1', 'TMenuItem', iptrw);
17804: SynPHPSyn1', 'TSynPHPSyn', iptrw);
17805: PHPSyntax1', 'TMenuItem', iptrw);
17806: Breakpoint1', 'TMenuItem', iptrw);
17807: SerialRS2321', 'TMenuItem', iptrw);
17808: N14', 'TMenuItem', iptrw);
17809: SynCSSyn1', 'TSynCSSyn', iptrw);
17810: CSyntax2', 'TMenuItem', iptrw);
17811: Calculator1', 'TMenuItem', iptrw);
17812: tbtnSerial', 'TToolButton', iptrw);
17813: ToolButton8', 'TToolButton', iptrw);
17814: Tutorial1151', 'TMenuItem', iptrw);
17815: N15', 'TMenuItem', iptrw);
17816: N16', 'TMenuItem', iptrw);
17817: ControlBar1', 'TControlBar', iptrw);
17818: ToolBar2', 'TToolBar', iptrw);
17819: BtnOpen', 'TToolButton', iptrw);
17820: BtnSave', 'TToolButton', iptrw);
17821: BtnPrint', 'TToolButton', iptrw);
17822: BtnColors', 'TToolButton', iptrw);
17823: btnClassReport', 'TToolButton', iptrw);
17824: BtnRotateRight', 'TToolButton', iptrw);
17825: BtnFullSize', 'TToolButton', iptrw);
17826: BtnFitToWindowSize', 'TToolButton', iptrw);
17827: BtnZoomMinus', 'TToolButton', iptrw);
17828: BtnZoomPlus', 'TToolButton', iptrw);
17829: Panell1', 'TPanel', iptrw);
17830: LabelBrettgroesse', 'TLabel', iptrw);
17831: CB1SCList', 'TComboBox', iptrw);
17832: ImageListNormal', 'TImageList', iptrw);
17833: spbtnexplore', 'TSpeedButton', iptrw);
17834: spbtnexample', 'TSpeedButton', iptrw);
17835: spbsaveas', 'TSpeedButton', iptrw);
17836: imglogobox', 'TImage', iptrw);
17837: EnlargeFont1', 'TMenuItem', iptrw);
17838: EnlargeFont2', 'TMenuItem', iptrw);
17839: ShrinkFont1', 'TMenuItem', iptrw);
17840: ThreadDemol', 'TMenuItem', iptrw);
17841: HEXEditor1', 'TMenuItem', iptrw);
17842: HEXView1', 'TMenuItem', iptrw);
17843: HEXInspect1', 'TMenuItem', iptrw);
17844: SynExporterHTML1', 'TSynExporterHTML', iptrw);
17845: ExporttoHTML1', 'TMenuItem', iptrw);
17846: ClassCount1', 'TMenuItem', iptrw);
17847: HTMLOutput1', 'TMenuItem', iptrw);
17848: HEXEditor2', 'TMenuItem', iptrw);
17849: Minesweeper1', 'TMenuItem', iptrw);
17850: N17', 'TMenuItem', iptrw);
17851: PicturePuzzle1', 'TMenuItem', iptrw);
17852: sbvclhelp', 'TSpeedButton', iptrw);
17853: DependencyWalker1', 'TMenuItem', iptrw);
17854: WebScanner1', 'TMenuItem', iptrw);
17855: View1', 'TMenuItem', iptrw);
17856: mnToolbar1', 'TMenuItem', iptrw);
17857: mnStatusbar2', 'TMenuItem', iptrw);
17858: mnConsole2', 'TMenuItem', iptrw);
17859: mnCoolbar2', 'TMenuItem', iptrw);
17860: mnSplitter2', 'TMenuItem', iptrw);
17861: WebServer1', 'TMenuItem', iptrw);
17862: Tutorial17Server1', 'TMenuItem', iptrw);
17863: Tutorial18Arduinol', 'TMenuItem', iptrw);
17864: SynPerlSyn1', 'TSynPerlSyn', iptrw);
17865: PerlSyntax1', 'TMenuItem', iptrw);
17866: SynPythonSyn1', 'TSynPythonSyn', iptrw);
17867: PythonSyntax1', 'TMenuItem', iptrw);
17868: DMathLibrary1', 'TMenuItem', iptrw);
17869: IntfNavigator1', 'TMenuItem', iptrw);
17870: EnlargeFontConsole1', 'TMenuItem', iptrw);
17871: ShrinkFontConsole1', 'TMenuItem', iptrw);
17872: SetInterfaceList1', 'TMenuItem', iptrw);
17873: popintfList', 'TPopupMenu', iptrw);
17874: intfAdd1', 'TMenuItem', iptrw);
17875: intfDelete1', 'TMenuItem', iptrw);
17876: intfRefactor1', 'TMenuItem', iptrw);
17877: Defactor1', 'TMenuItem', iptrw);
17878: Tutorial19COMArduinol', 'TMenuItem', iptrw);
17879: Tutorial20Regex', 'TMenuItem', iptrw);
17880: N18', 'TMenuItem', iptrw);
17881: ManualE1', 'TMenuItem', iptrw);
17882: FullTextFinder1', 'TMenuItem', iptrw);
17883: Move1', 'TMenuItem', iptrw);
17884: FractalDemol', 'TMenuItem', iptrw);
17885: Tutorial21Android1', 'TMenuItem', iptrw);
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17886: Tutorial0Function1', 'TMenuItem', iptrw);
17887: SimuLogBox1', 'TMenuItem', iptrw);
17888: OpenExamples1', 'TMenuItem', iptrw);
17889: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
17890: JavaScriptSyntax1', 'TMenuItem', iptrw);
17891: Halt1', 'TMenuItem', iptrw);
17892: CodeSearch1', 'TMenuItem', iptrw);
17893: SynRubySyn1', 'TSynRubySyn', iptrw);
17894: RubySyntax1', 'TMenuItem', iptrw);
17895: Undo1', 'TMenuItem', iptrw);
17896: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
17897: LinuxShellScript1', 'TMenuItem', iptrw);
17898: Rename1', 'TMenuItem', iptrw);
17899: spdcodesearch', 'TSpeedButton', iptrw);
17900: Preview1', 'TMenuItem', iptrw);
17901: Tutorial22Services1', 'TMenuItem', iptrw);
17902: Tutorial23RealTime1', 'TMenuItem', iptrw);
17903: Configuration1', 'TMenuItem', iptrw);
17904: MP3Player1', 'TMenuItem', iptrw);
17905: DLLSpy1', 'TMenuItem', iptrw);
17906: SynURIOpener1', 'TSynURIOpener', iptrw);
17907: SynURISyn1', 'TSynURISyn', iptrw);
17908: URILinksClicks1', 'TMenuItem', iptrw);
17909: EditReplace1', 'TMenuItem', iptrw);
17910: GotoLine1', 'TMenuItem', iptrw);
17911: ActiveLineColor1', 'TMenuItem', iptrw);
17912: ConfigFile1', 'TMenuItem', iptrw);
17913: SortIntfList1', 'TMenuItem', iptrw);
17914: Redo1', 'TMenuItem', iptrw);
17915: Tutorial24CleanCode1', 'TMenuItem', iptrw);
17916: Tutorial25Configuration1', 'TMenuItem', iptrw);
17917: IndentSelection1', 'TMenuItem', iptrw);
17918: UnindentSection1', 'TMenuItem', iptrw);
17919: SkyStyle1', 'TMenuItem', iptrw);
17920: N19', 'TMenuItem', iptrw);
17921: CountWords1', 'TMenuItem', iptrw);
17922: imbookmarkimages', 'TImageList', iptrw);
17923: Bookmark11', 'TMenuItem', iptrw);
17924: N20', 'TMenuItem', iptrw);
17925: Bookmark21', 'TMenuItem', iptrw);
17926: Bookmark31', 'TMenuItem', iptrw);
17927: Bookmark41', 'TMenuItem', iptrw);
17928: SynMultiSyn1', 'TSynMultiSyn', iptrw);
17929:
17930: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
17931: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSExec; x:TPSRuntimeClassImporter);
17932: Procedure PSScriptCompile( Sender : TPSScript)
17933: Procedure Compile1Click( Sender : TObject)
17934: Procedure PSScriptExecute( Sender : TPSScript)
17935: Procedure open1Click( Sender : TObject)
17936: Procedure Save2Click( Sender : TObject)
17937: Procedure Savebefore1Click( Sender : TObject)
17938: Procedure Largefont1Click( Sender : TObject)
17939: Procedure FormActivate( Sender : TObject)
17940: Procedure SBytecode1Click( Sender : TObject)
17941: Procedure FormKeyPress( Sender : TObject; var Key : Char)
17942: Procedure Saveas3Click( Sender : TObject)
17943: Procedure Clear1Click( Sender : TObject)
17944: Procedure Slinenumbers1Click( Sender : TObject)
17945: Procedure About1Click( Sender : TObject)
17946: Procedure Search1Click( Sender : TObject)
17947: Procedure FormCreate( Sender : TObject)
17948: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
17949:                                     var Action : TSynReplaceAction)
17950: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
17951: Procedure WordWrap1Click( Sender : TObject)
17952: Procedure SearchNext1Click( Sender : TObject)
17953: Procedure Replace1Click( Sender : TObject)
17954: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FName,Output:String):Bool;
17955: Procedure ShowInclude1Click( Sender : TObject)
17956: Procedure Printout1Click( Sender : TObject)
17957: Procedure mnuPrintFont1Click( Sender : TObject)
17958: Procedure Include1Click( Sender : TObject)
17959: Procedure FormDestroy( Sender : TObject)
17960: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17961: Procedure UpdateView1Click( Sender : TObject)
17962: Procedure CodeCompletionList1Click( Sender : TObject)
17963: Procedure SaveOutput1Click( Sender : TObject)
17964: Procedure ExportClipboard1Click( Sender : TObject)
17965: Procedure Close1Click( Sender : TObject)
17966: Procedure Manual1Click( Sender : TObject)
17967: Procedure LoadLastFile1Click( Sender : TObject)
17968: Procedure Memo1Change( Sender : TObject)
17969: Procedure Decompile1Click( Sender : TObject)
17970: Procedure StepIntol1Click( Sender : TObject)
17971: Procedure StepOut1Click( Sender : TObject)
17972: Procedure Reset1Click( Sender : TObject)
17973: Procedure cedebugAfterExecute( Sender : TPSScript)
17974: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)

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17975: Procedure cedebugCompile( Sender : TPSScript)
17976: Procedure cedebugExecute( Sender : TPSScript)
17977: Procedure cedebugIdle( Sender : TObject)
17978: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
17979: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
17980: Procedure BreakPointMenuClick( Sender : TObject)
17981: Procedure DebugRun1Click( Sender : TObject)
17982: Procedure tutorial4Click( Sender : TObject)
17983: Procedure ImportfromClipboard1Click( Sender : TObject)
17984: Procedure ImportfromClipboard2Click( Sender : TObject)
17985: Procedure tutorial11Click( Sender : TObject)
17986: Procedure ShowSpecChars1Click( Sender : TObject)
17987: Procedure StatusBar1Db1Click( Sender : TObject)
17988: Procedure PSScriptLine( Sender : TObject)
17989: Procedure OpenDirectory1Click( Sender : TObject)
17990: Procedure procMessClick( Sender : TObject)
17991: Procedure tbtnUseCaseClick( Sender : TObject)
17992: Procedure EditFont1Click( Sender : TObject)
17993: Procedure tutorial21Click( Sender : TObject)
17994: Procedure tutorial31Click( Sender : TObject)
17995: Procedure HTMLSyntax1Click( Sender : TObject)
17996: Procedure ShowInterfaces1Click( Sender : TObject)
17997: Procedure Tutorial5Click( Sender : TObject)
17998: Procedure ShowLastException1Click( Sender : TObject)
17999: Procedure PlayMP31Click( Sender : TObject)
18000: Procedure AllFunctionsList1Click( Sender : TObject)
18001: Procedure texSyntax1Click( Sender : TObject)
18002: Procedure GetEMails1Click( Sender : TObject)
18003: procedure DelphiSite1Click(Sender: TObject);
18004: procedure TerminalStyle1Click(Sender: TObject);
18005: procedure ReadOnly1Click(Sender: TObject);
18006: procedure ShellStyle1Click(Sender: TObject);
18007: procedure Console1Click(Sender: TObject); //3.2
18008: procedure BigScreen1Click(Sender: TObject);
18009: procedure Tutorial91Click(Sender: TObject);
18010: procedure SaveScreenshotClick(Sender: TObject);
18011: procedure Tutorial101Click(Sender: TObject);
18012: procedure SQLSyntax1Click(Sender: TObject);
18013: procedure XMLSyntax1Click(Sender: TObject);
18014: procedure ComponentCount1Click(Sender: TObject);
18015: procedure NewInstance1Click(Sender: TObject);
18016: procedure CSyntax1Click(Sender: TObject);
18017: procedure Tutorial6Click(Sender: TObject);
18018: procedure New1Click(Sender: TObject);
18019: procedure AllObjectsList1Click(Sender: TObject);
18020: procedure LoadBytecode1Click(Sender: TObject);
18021: procedure CipherFile1Click(Sender: TObject); //V3.5
18022: procedure NewInstance1Click(Sender: TObject);
18023: procedure toolbtnTutorialClick(Sender: TObject);
18024: procedure Memory1Click(Sender: TObject);
18025: procedure JavaSyntax1Click(Sender: TObject);
18026: procedure SyntaxCheck1Click(Sender: TObject);
18027: procedure ScriptExplorer1Click(Sender: TObject);
18028: procedure FormOutput1Click(Sender: TObject); //V3.6
18029: procedure GotoEnd1Click(Sender: TObject);
18030: procedure AllResourceList1Click(Sender: TObject);
18031: procedure tbtn6resClick(Sender: TObject); //V3.7
18032: procedure Info1Click(Sender: TObject);
18033: procedure Tutorial10Statistics1Click(Sender: TObject);
18034: procedure Tutorial11Forms1Click(Sender: TObject);
18035: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
18036: procedure ResourceExplore1Click(Sender: TObject);
18037: procedure Info1Click(Sender: TObject);
18038: procedure CryptoBox1Click(Sender: TObject);
18039: procedure ModulesCount1Click(Sender: TObject);
18040: procedure N4GewinntGame1Click(Sender: TObject);
18041: procedure PHPSyntax1Click(Sender: TObject);
18042: procedure SerialRS2321Click(Sender: TObject);
18043: procedure CSyntax2Click(Sender: TObject);
18044: procedure Calculator1Click(Sender: TObject);
18045: procedure Tutorial13Ciphering1Click(Sender: TObject);
18046: procedure Tutorial14Async1Click(Sender: TObject);
18047: procedure PHPSyntax1Click(Sender: TObject);
18048: procedure BtnZoomPlusClick(Sender: TObject);
18049: procedure BtnZoomMinusClick(Sender: TObject);
18050: procedure btnClassReportClick(Sender: TObject);
18051: procedure ThreadDemolClick(Sender: TObject);
18052: procedure HEXView1Click(Sender: TObject);
18053: procedure ExporttoHTML1Click(Sender: TObject);
18054: procedure Minesweeper1Click(Sender: TObject);
18055: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
18056: procedure sbvclhelpClick(Sender: TObject);
18057: procedure DependencyWalker1Click(Sender: TObject);
18058: procedure CB1SCListDrawItem(Control: TWinControl; Index: Int; aRect: TRect; State: TOwnerDrawState);
18059: procedure WebScanner1Click(Sender: TObject);
18060: procedure mnToolbar1Click(Sender: TObject);
18061: procedure mnStatusBar2Click(Sender: TObject);
18062: procedure mnConsole2Click(Sender: TObject);
18063: procedure mnCoolbar2Click(Sender: TObject);

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18064: procedure mnSplitter2Click(Sender: TObject);
18065: procedure WebServer1Click(Sender: TObject);
18066: procedure PerlSyntax1Click(Sender: TObject);
18067: procedure PythonSyntax1Click(Sender: TObject);
18068: procedure DMathLibrary1Click(Sender: TObject);
18069: procedure IntfNavigator1Click(Sender: TObject);
18070: procedure FullTextFinder1Click(Sender: TObject);
18071: function AppName: string;
18072: function ScriptName: string;
18073: function LastName: string;
18074: procedure FractalDemol1Click(Sender: TObject);
18075: procedure SimuLogBox1Click(Sender: TObject);
18076: procedure OpenExamples1Click(Sender: TObject);
18077: procedure Halt1Click(Sender: TObject);
18078: procedure Stop;
18079: procedure CodeSearch1Click(Sender: TObject);
18080: procedure RubySyntax1Click(Sender: TObject);
18081: procedure Undo1Click(Sender: TObject);
18082: procedure LinuxShellScript1Click(Sender: TObject);
18083: procedure WebScannerDirect(urls: string);
18084: procedure WebScanner(urls: string);
18085: procedure LoadInterfaceList2;
18086: procedure DLLSpy1Click(Sender: TObject);
18087: procedure Memo1Db1Click(Sender: TObject);
18088: procedure URILinksClicks1Click(Sender: TObject);
18089: procedure GotoLine1Click(Sender: TObject);
18090: procedure ConfigFile1Click(Sender: TObject);
18091: procedure Sort1IntfListClick(Sender: TObject);
18092: procedure Redo1Click(Sender: TObject);
18093: procedure Tutorial24CleanCode1Click(Sender: TObject);
18094: procedure IndentSelection1Click(Sender: TObject);
18095: procedure UnindentSection1Click(Sender: TObject);
18096: procedure SkyStyle1Click(Sender: TObject);
18097: procedure CountWords1Click(Sender: TObject);
18098: procedure Memo1PlaceBookmark(Sender: TObject; var Mark: TSynEditMark);
18099: procedure Memo1GutterClick(Sender: TObject; Button: TMouseButton; X, Y, Line: Integer; Mark: TSynEditMark);
18100: procedure Bookmark11Click(Sender: TObject);
18101: procedure Bookmark21Click(Sender: TObject);
18102: procedure Bookmark31Click(Sender: TObject);
18103: procedure Bookmark41Click(Sender: TObject);
18104: procedure SynMultiSynCustomRange(Sender: TSynMultiSyn; Operation: TRangeOperation; var Range: Pointer);
18105: 'STATMemoryReport', 'boolean', iptrw);
18106: 'IPPort', 'integer', iptrw);
18107: 'COMPort', 'integer', iptrw);
18108: 'lbintfList', 'TListBox', iptrw);
18109: Function GetStatChange: boolean;
18110: Procedure SetStatChange(vstat: boolean);
18111: Function GetActFileName: string;
18112: Procedure SetActFileName(vname: string);
18113: Function GetLastFileName: string;
18114: Procedure SetLastFileName(vname: string);
18115: Procedure WebScannerDirect(urls: string);
18116: Procedure LoadInterfaceList2;
18117: Function GetStatExecuteShell: boolean;
18118: Procedure DoEditorExecuteCommand(EditorCommand: word);
18119: function GetActiveLineColor: TColor;
18120: procedure SetActiveLineColor(acolor: TColor);
18121: procedure ScriptListbox1Click(Sender: TObject);
18122: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
18123: procedure EnlargeGutter1Click(Sender: TObject);
18124: procedure Tetris1Click(Sender: TObject);
18125: procedure ToDoList1Click(Sender: TObject);
18126: procedure ProcessList1Click(Sender: TObject);
18127: procedure MetricReport1Click(Sender: TObject);
18128: procedure ProcessList1Click(Sender: TObject);
18129: procedure TCPSockets1Click(Sender: TObject);
18130: procedure ConfigUpdate1Click(Sender: TObject);
18131: procedure ADOWorkbench1Click(Sender: TObject);
18132: procedure SocketServer1Click(Sender: TObject);
18133: procedure FormDemol1Click(Sender: TObject);
18134: procedure Richedit1Click(Sender: TObject);
18135: procedure SimpleBrowser1Click(Sender: TObject);
18136: procedure DOSShell1Click(Sender: TObject);
18137: procedure SynExport1Click(Sender: TObject);
18138: procedure ExporttoRTF1Click(Sender: TObject);
18139: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
18140: procedure SOAPTester1Click(Sender: TObject);
18141: procedure Sniffer1Click(Sender: TObject);
18142: procedure AutoDetectSyntax1Click(Sender: TObject);
18143: procedure FPlot1Click(Sender: TObject);
18144: procedure PasStyle1Click(Sender: TObject);
18145: procedure Tutorial183RGBLED1Click(Sender: TObject);
18146: procedure ReversilClick(Sender: TObject);
18147: procedure ManualmaXbox1Click(Sender: TObject);
18148: procedure BlaisePascalMagazine1Click(Sender: TObject);
18149: procedure AddToDo1Click(Sender: TObject);
18150: procedure CreateGUID1Click(Sender: TObject);
18151: procedure Tutorial27XML1Click(Sender: TObject);
18152: procedure CreateDLLStub1Click(Sender: TObject);

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18153:   procedure Tutorial28DLL1Click(Sender: TObject);
18154:   procedure ResetKeyPressed;
18155:   procedure FileChanges1Click(Sender: TObject);
18156:   procedure OpenGLTry1Click(Sender: TObject);
18157:   procedure AllUnitList1Click(Sender: TObject);
18158:
18159:
18160: //-----
18161: //*****mX4 Editor SynEdit Tools API *****
18162: //-----
18163: (*-----*)
18164: procedure SIRegister_TCustomSynEdit(CL: TPSPascalCompiler);
18165: begin
18166:   //with RegClassS(CL, 'TCustomControl', 'TCustomSynEdit') do
18167:   with FindClass('TCustomControl', 'TCustomSynEdit') do begin
18168:     Constructor Create( AOwner : TComponent)
18169:     SelStart, 'Integer', iptrw);
18170:     SelEnd, 'Integer', iptrw); AlwaysShowCaret, 'Boolean', iptrw);
18171:     Procedure UpdateCaret
18172:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
18173:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
18174:     Procedure BeginUndoBlock
18175:     Procedure BeginUpdate
18176:     Function CaretInView : Boolean
18177:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
18178:     Procedure Clear
18179:     Procedure ClearAll
18180:     Procedure ClearBookMark( BookMark : Integer)
18181:     Procedure ClearSelection
18182:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer)
18183:     Procedure ClearUndo
18184:     Procedure CopyToClipboard
18185:     Procedure CutToClipboard
18186:     Procedure DoCopyToClipboard( const SText : string)
18187:     Procedure EndUndoBlock
18188:     Procedure EndUpdate
18189:     Procedure EnsureCursorPosVisible
18190:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean)
18191:     Procedure FindMatchingBracket
18192:     Function GetMatchingBracket : TBufferCoord
18193:     Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
18194:     Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer)
18195:     Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
18196:     Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attri
18197:       : TSynHighlighterAttributes ) : boolean
18198:     Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
18199:       var TokenType, Start : Integer; var Attri: TSynHighlighterAttributes ): boolean
18200:     Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
18201:     Function GetWordAtRowCol( const XY : TBufferCoord ) : string
18202:     Procedure GotoBookMark( BookMark : Integer)
18203:     Procedure GotoLineAndCenter( ALine : Integer)
18204:     Function IdentChars : TSynIdentChars
18205:     Procedure InvalidateGutter
18206:     Procedure InvalidateGutterLine( aLine : integer)
18207:     Procedure InvalidateGutterLines( FirstLine, LastLine : integer)
18208:     Procedure InvalidateLine( Line : integer)
18209:     Procedure InvalidateLines( FirstLine, LastLine : integer)
18210:     Procedure InvalidateSelection
18211:     Function IsBookMark( BookMark : integer ) : boolean
18212:     Function IsPointInSelection( const Value : TBufferCoord ) : boolean
18213:     Procedure LockUndo
18214:     Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
18215:     Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
18216:     Function LineToRow( aLine : integer ) : integer
18217:     Function RowToLine( aRow : integer ) : integer
18218:     Function NextWordPos : TBufferCoord
18219:     Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
18220:     Procedure PasteFromClipboard
18221:     Function WordStart : TBufferCoord
18222:     Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
18223:     Function WordEnd : TBufferCoord
18224:     Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
18225:     Function PrevWordPos : TBufferCoord
18226:     Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
18227:     Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
18228:     Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
18229:     Procedure Redo
18230:     Procedure RegisterCommandHandler( const AHandlerProc: THookedCommandEvent; AHandlerData: pointer );
18231:     Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
18232:     Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
18233:     Function SearchReplace( const ASearch, AReplace: string; AOptions: TSynSearchOptions ) : integer
18234:     Procedure SelectAll
18235:     Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer)
18236:     Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord)
18237:     Procedure SetDefaultKeystrokes
18238:     Procedure SetSelWord
18239:     Procedure SetWordBlock( Value : TBufferCoord)
18240:     Procedure Undo
18241:     Procedure UnlockUndo

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18242: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent)
18243: Procedure AddKeyUpHandler( aHandler : TKeyEvent)
18244: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent)
18245: Procedure AddKeyDownHandler( aHandler : TKeyEvent)
18246: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent)
18247: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent)
18248: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent)
18249: Procedure AddFocusControl( aControl : TWinControl)
18250: Procedure RemoveFocusControl( aControl : TWinControl)
18251: Procedure AddMouseDownHandler( aHandler : TMouseEvent)
18252: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent)
18253: Procedure AddMouseUpHandler( aHandler : TMouseEvent)
18254: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent)
18255: Procedure AddMouseCursorHandler( aHandler : TMouseEvent)
18256: Procedure RemoveMouseCursorHandler( aHandler : TMouseEvent)
18257: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit)
18258: Procedure RemoveLinesPointer
18259: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList)
18260: Procedure UnHookTextBuffer
18261: BlockBegin', 'TBufferCoord', iptrw);
18262: BlockEnd', 'TBufferCoord', iptrw);
18263: CanPaste', 'Boolean', iptr);
18264: CanRedo', 'boolean', iptr);
18265: CanUndo', 'boolean', iptr);
18266: CaretX', 'Integer', iptrw);
18267: CaretY', 'Integer', iptrw);
18268: CaretXY', 'TBufferCoord', iptrw);
18269: ActiveLineColor', 'TColor', iptrw);
18270: DisplayX', 'Integer', iptr);
18271: DisplayY', 'Integer', iptr);
18272: DisplayXY', 'TDisplayCoord', iptr);
18273: DisplayLineCount', 'integer', iptr);
18274: CharsInWindow', 'Integer', iptr);
18275: CharWidth', 'integer', iptr);
18276: Font', 'TFont', iptrw);
18277: GutterWidth', 'Integer', iptr);
18278: Highlighter', 'TSynCustomHighlighter', iptrw);
18279: LeftChar', 'Integer', iptrw);
18280: LineHeight', 'integer', iptr);
18281: LinesInWindow', 'Integer', iptr);
18282: LineText', 'string', iptrw);
18283: Lines', 'TStrings', iptrw);
18284: Marks', 'TSynEditMarkList', iptr);
18285: MaxScrollWidth', 'integer', iptrw);
18286: Modified', 'Boolean', iptrw);
18287: PaintLock', 'Integer', iptr);
18288: ReadOnly', 'Boolean', iptrw);
18289: SearchEngine', 'TSynEditSearchCustom', iptrw);
18290: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
18291: SelTabBlock', 'Boolean', iptr);
18292: SelTabLine', 'Boolean', iptr);
18293: SelText', 'string', iptrw);
18294: StateFlags', 'TSynStateFlags', iptr);
18295: Text', 'string', iptrw);
18296: TopLine', 'Integer', iptrw);
18297: WordAtCursor', 'string', iptr);
18298: WordAtMouse', 'string', iptr);
18299: UndoList', 'TSynEditUndoList', iptr);
18300: RedoList', 'TSynEditUndoList', iptr);
18301: OnProcessCommand', 'TProcessCommandEvent', iptrw);
18302: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
18303: BorderStyle', 'TSynBorderStyle', iptrw);
18304: ExtraLineSpacing', 'integer', iptrw);
18305: Gutter', 'TSynGutter', iptrw);
18306: HideSelection', 'boolean', iptrw);
18307: InsertCaret', 'TSynEditCaretType', iptrw);
18308: InsertMode', 'boolean', iptrw);
18309: IsScrolling', 'Boolean', iptr);
18310: Keystrokes', 'TSynEditKeyStrokes', iptrw);
18311: MaxUndo', 'Integer', iptrw);
18312: Options', 'TSynEditorOptions', iptrw);
18313: OverwriteCaret', 'TSynEditCaretType', iptrw);
18314: RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
18315: ScrollHintColor', 'TColor', iptrw);
18316: ScrollHintFormat', 'TScrollHintFormat', iptrw);
18317: ScrollBars', 'TScrollStyle', iptrw);
18318: SelectedColor', 'TSynSelectedColor', iptrw);
18319: SelectionMode', 'TSynSelectionMode', iptrw);
18320: ActiveSelectionMode', 'TSynSelectionMode', iptrw);
18321: TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
18322: WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
18323: WordWrapGlyph', 'TSynGlyph', iptrw);
18324: OnChange', 'TNotifyEvent', iptrw);
18325: OnClearBookmark', 'TPlaceMarkEvent', iptrw);
18326: OnCommandProcessed', 'TProcessCommandEvent', iptrw);
18327: OnContextHelp', 'TContextHelpEvent', iptrw);
18328: OnDropFiles', 'TDropFilesEvent', iptrw);
18329: OnGutterClick', 'TGutterClickEvent', iptrw);
18330: OnGutterGetText', 'TGutterGetTextEvent', iptrw);

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18331: OnGutterPaint', 'TGutterPaintEvent', iptrw);
18332: OnMouseCursor', 'TMouseCursorEvent', iptrw);
18333: OnPaint', 'TPaintEvent', iptrw);
18334: OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
18335: OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
18336: OnReplaceText', 'TReplaceTextEvent', iptrw);
18337: OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
18338: OnStatusChange', 'TStatusChangeEvent', iptrw);
18339: OnPaintTransient', 'TPaintTransient', iptrw);
18340: OnScroll', 'TScrollEvent', iptrw);
18341: end;
18342: end;
18343: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
18344: Function GetPlaceableHighlighters : TSynHighlighterList
18345: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
18346: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
18347: Procedure GetEditorCommandValues( Proc : TGetStrProc)
18348: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
18349: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
18350: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
18351: Function ConvertCodeStringToExtended( AString : String) : String
18352: Function ConvertExtendedToCodeString( AString : String) : String
18353: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand
18354: Function ConvertCodeStringToCommand( AString : String) : TSynEditorCommand
18355: Function IndexToEditorCommand( const AIndex : Integer) : Integer
18356:
18357: TSynEditorOption = (
18358:   eoAltSetsColumnMode, //Holding down the Alt Key will put the selection mode into columnar format
18359:   eoAutoIndent, //Will indent caret on newlines with same amount of leading whitespace as
18360:   // preceding line
18361:   eoAutoSizeMaxScrollWidth, //Automatically resizes the MaxScrollWidth property when inserting text
18362:   eoDisableScrollArrows, //Disables the scroll bar arrow buttons when you can't scroll in that
18363:   //direction any more
18364:   eoDragDropEditing, //Allows to select a block of text and drag it within document to another
18365:   // location
18366:   eoDropFiles, //Allows the editor accept OLE file drops
18367:   eoEnhanceHomeKey, //enhances home key positioning, similar to visual studio
18368:   eoEnhanceEndKey, //enhances End key positioning, similar to JDeveloper
18369:   eoGroupUndo, //When undoing/redoin actions, handle all continous changes the same kind
18370:   // in one call
18371:   //instead undoing/redoin each command separately
18372:   eoHalfPageScroll, //When scrolling with page-up and page-down commands, only scroll a half
18373:   //page at a time
18374:   eoHideShowScrollbars, //if enabled, then scrollbars will only show if necessary.
18375:   If you have ScrollPastEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
18376:   eoKeepCaretX, //When moving through lines w/o cursor Past EOL, keeps X position of cursor
18377:   eoNoCaret, //Makes it so the caret is never visible
18378:   eoNoSelection, //Disables selecting text
18379:   eoRightMouseMovesCursor, //When clicking with right mouse for popup menu, moves cursor to location
18380:   eoScrollByOneLess, //Forces scrolling to be one less
18381:   eoScrollHintFollows, //The scroll hint follows the mouse when scrolling vertically
18382:   eoScrollPastEof, //Allows the cursor to go past the end of file marker
18383:   eoScrollPastEol, //Allows cursor to go past last character into white space at end of a line
18384:   eoShowScrollHint, //Shows a hint of the visible line numbers when scrolling vertically
18385:   eoShowSpecialChars, //Shows the special Characters
18386:   eoSmartTabDelete, //similar to Smart Tabs, but when you delete characters
18387:   eoSmartTabs, //When tabbing, cursor will go to non-white space character of previous line
18388:   eoSpecialLineDefaultFg, //disables the foreground text color override using OnSpecialLineColor event
18389:   eoTabIndent, //If active <Tab> and <Shift><Tab> act block indent, unindent when text select
18390:   eoTabsToSpaces, //Converts a tab character to a specified number of space characters
18391:   eoTrimTrailingSpaces //Spaces at the end of lines will be trimmed and not saved
18392:
18393: *****Important Editor Short Cuts*****);
18394: Double click to select a word and count words with highlightning.
18395: Triple click to select a line.
18396: CTRL+SHIFT+click to extend a selection.
18397: Drag with the ALT key down to select columns of text !!!
18398: Drag and drop is supported.
18399: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
18400: Type CTRL+A to select all.
18401: Type CTRL+N to set a new line.
18402: Type CTRL+T to delete a line or token. //Tokenizer
18403: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
18404: Type CTRL+Shift+T to add ToDo in line and list.
18405: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
18406: Type CTRL[0..9] to jump or get to bookmarks.
18407: Type Home to position cursor at beginning of current line and End to position it at end of line.
18408: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
18409: Page Up and Page Down work as expected.
18410: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
18411: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
18412:
18413: {$ Short Key Positions Ctrl<A-Z>: }
18414: def
18415:   <A> Select All
18416:   <B> Count Words
18417:   <C> Copy
18418:   <D> Internet Start
18419:   <E> Script List

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18420: <F> Find
18421: <G> Goto
18422: <H> Mark Line
18423: <I> Interface List
18424: <J> Code Completion
18425: <K> Console
18426: <L> Interface List Box
18427: <M> Font Larger -
18428: <N> New Line
18429: <O> Open File
18430: <P> Font Smaller +
18431: <Q> Quit
18432: <R> Replace
18433: <S> Save!
18434: <T> Delete Line
18435: <U> Use Case Editor
18436: <V> Paste
18437: <W> URI Links
18438: <X> Reserved for coding use internal
18439: <Y> Delete Line
18440: <Z> Undo
18441:
18442: ref
18443: F1 Help
18444: F2 Syntax Check
18445: F3 Search Next
18446: F4 New Instance
18447: F5 Line Mark /Breakpoint
18448: F6 Goto End
18449: F7 Debug Step Into
18450: F8 Debug Step Out
18451: F9 Compile
18452: F10 Menu
18453: F11 Word Count Highlight
18454: F12 Reserved for coding use internal
18455:
18456: def ReservedWords: array[0..82] of string =
18457:   ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
18458:    'constructor', 'default', 'destructor', 'dispinterface', 'div', 'do',
18459:    'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
18460:    'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
18461:    'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
18462:    'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
18463:    'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
18464:    'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
18465:    'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
18466:    'uses', 'var', 'while', 'with', 'write', 'xor', 'private', 'protected',
18467:    'public', 'published', 'def', 'ref', 'using', 'typedef', 'memo1', 'memo2', 'doc', 'maxform1';
18468: AllowedChars: array[0..5] of string = ('(', ')', '[', ']', ' ', ' ' t,t1,t2,t3: boolean;
18469:
18470: //-----
18471: //*****End of mX4 Public Tools API *****
18472: //-----
18473:
18474: Amount of Functions: 11992
18475: Amount of Procedures: 7507
18476: Amount of Constructors: 1239
18477: Totals of Calls: 20738
18478: SHA1: Win 3.9.9.94 64A167821033864F9DF3478987B2EE997EF89AC5
18479:
18480: *****
18481: Doc Short Manual with 50 Tips!
18482: *****
18483: - Install: just save your maxboxdef.ini before and then extract the zip file!
18484: - Toolbar: Click on the red maXbox Sign (right on top) opens your work directory or jump to <Help>
18485: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
18486: - Menu: With <Ctrl><F3> you can search for code on examples
18487: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
18488: - Menu: Set Interface Navigator in menu /View/Intf Navigator
18489: - Menu: Switch or toggle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
18490:
18491: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
18492: - Inifile: Refresh (reload) the inifile after edit with ../Help/Config Update
18493: - Context Menu: You can printout your scripts as a pdf-file or html-export
18494: - Context: You do have a context menu with the right mouse click
18495:
18496: - Menu: With the UseCase Editor you can convert graphic formats too.
18497: - Menu: On menu Options you find Addons as compiled scripts
18498: - IDE: You don't need a mouse to handle maXbox, use shortcuts
18499: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
18500: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
18501: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
18502:   or ttimer (you type classp and then CTRL J),or you type tstringlist and <Ctrl><J>
18503:
18504: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
18505: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
18506: - Code: If you code a loop till key-pressed use function: isKeyPressed;
18507: - Code: Macro set the macros #name, #date, #host, #path, #file, #head #sign, Tutorial maxbox_starter25.pdf
18508: - Code: change Syntax in autoboot macro 'maxbootscript.txt'

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18509: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
18510:         to delete and Click and mark to drag a bookmark
18511: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
18512: - IDE: A file info with system and script information you find in menu Program/Information
18513: - IDE: After change the config file in help you can update changes in menu Help/Config Update
18514: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
18515: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
18516: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
18517: - Editor: Set Bookmarks to check your work in app or code
18518: - Editor: With <Ctrl H> you set {$Active Line Color} and F11 you get Word Count Statistic on Output too
18519: - Editor: With {///TODO: some description} or DONE you set code entries for ToDo List in ../Help/ToDo List
18520: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
18521:
18522: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
18523: - Context Menu: You can write your docs with RichEdit RTF printout /Editor Form Options/Richedit
18524: - Menu: Set Interface Navigator also with toggle <Ctrl L> or /View/Intf Navigator
18525: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
18526: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
18527: - Code Editor: Compile with <F9> but also Alt C in case <F9> isnt available;
18528: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
18529: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
18530:
18531: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
18532: - Add on when no browser is available start /Options/Add ons/Easy Browser
18533: - Add on SOAP Tester with SOP POST File
18534: - Add on IP Protocol Sniffer with List View
18535: - Add on OpenGL mX Robot Demo for android
18536:
18537: - Menu: Help/Tools as a Tool Section with DOS Opener
18538: - Menu Editor: export the code as RTF File
18539: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
18540: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
18541: - Context: Auto Detect of Syntax depending on file extension
18542: - Code: some Windows API function start with w in the name like wGetAtomName();
18543: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
18544: - IDE File Check with menu ../View/File Changes/...
18545:
18546: - using DLL example in maxbox: //function: {*****}
18547:         Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
18548:             cb: DWORD): BOOL; //stdcall;;
18549:         External 'GetProcessMemoryInfo@psapi.dll stdcall';
18550:         Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
18551:         External 'OpenProcess@kernel32.dll stdcall';
18552:
18553: PCT Precompile Technology , mX4 ScriptStudio
18554: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
18555: DMATH, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
18556: emax layers: system-package-component-unit-class-function-block
18557: new keywords def ref using maxXCalcF
18558: UML: use case act class state seq pac comp dep - lib lab
18559: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
18560: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
18561: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
18562: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
18563: https://unibe-ch.academia.edu/MaxKleiner
18564: www.slideshare.net/maxkleiner1
18565: http://www.scribd.com/max_kleiner
18566:
18567:
18568: *****
18569: unit List asm internal end
18570: *****
18571: 01 unit RRegister_StrUtils_Routines(exec); //Delphi
18572: 02 unit SRegister_IdStrings //Indy Sockets
18573: 03 unit RRegister_niSTRING_Routines(Exec); //from RegEx
18574: 04 unit uPSI_fMain Functions; //maxbox Open Tools API
18575: 05 unit IFSI_WinFormlpuzzle; //maxbox
18576: 06 unit RRegister_LinarBitmap_Routines(Exec); //ImageFileLibBCB
18577: 07 unit RegisterDateTimeLibrary_R(exec); //Delphi
18578: 08 unit RRegister_MathMax_Routines(exec); //Jedi & Delphi
18579: 09 unit RRegister_IdGlobal_Routines(exec); //Indy Sockets
18580: 10 unit RRegister_SysUtils_Routines(Exec); //Delphi
18581: 11 unit uPSI_IdTCPConnection; //Indy some functions
18582: 12 unit uPSCompiler.pas; //PS kernel functions
18583: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
18584: 14 unit uPSI_Printers.pas //Delphi VCL
18585: 15 unit uPSI_MPlayer.pas //Delphi VCL
18586: 16 unit uPSC_comobj; //COM Functions
18587: 17 unit uPSI_Clipbrd; //Delphi VCL
18588: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
18589: 19 unit uPSI_SqlExpr; //DBX3
18590: 20 unit uPSI_ADODB; //ADODB
18591: 21 unit uPSI_StrHlpr; //String Helper Routines
18592: 22 unit uPSI_DateUtils; //Expansion to DateTimeLib
18593: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
18594: 24 unit JUtils / gsUtils; //Jedi / Metabase
18595: 25 unit JvFunctions_max; //Jedi Functions
18596: 26 unit HTTPParser; //Delphi VCL
18597: 27 unit HTTPUtil; //Delphi VCL

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18598: 28 unit uPSI_XMLUtil; //Delphi VCL
18599: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP Webservice V3.5
18600: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
18601: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
18602: 32 unit uPSI_MyBigInt; //big integer class with Math
18603: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
18604: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
18605: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
18606: 36 unit uPSI_IdHashMessageDigest; //Indy Crypto;
18607: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
18608: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
18609: 39 unit uPSI_IdIcmpClient; //Indy Ping ICMP
18610: 40 unit uPSI_IdHashMessageDigest_max; //Indy Crypto &OpenSSL;
18611: 41 unit uPSI_FileCtrl; //Delphi RTL
18612: 42 unit uPSI_Outline; //Delphi VCL
18613: 43 unit uPSI_ScktComp; //Delphi RTL
18614: 44 unit uPSI_Calendar; //Delphi VCL
18615: 45 unit uPSI_VListView; //VListView;
18616: 46 unit uPSI_DBGGrids; //Delphi VCL
18617: 47 unit uPSI_DBCtrls; //Delphi VCL
18618: 48 unit ide_debugoutput; //maXbox
18619: 49 unit uPSI_ComCtrls; //Delphi VCL
18620: 50 unit uPSC_stdctrls+; //Delphi VCL
18621: 51 unit uPSI_Dialogs; //Delphi VCL
18622: 52 unit uPSI_StdConv; //Delphi RTL
18623: 53 unit uPSI_DBClient; //Delphi RTL
18624: 54 unit uPSI_DBPlatform; //Delphi RTL
18625: 55 unit uPSI_Provider; //Delphi RTL
18626: 56 unit uPSI_FMTBcd; //Delphi RTL
18627: 57 unit uPSI_DBCGrids; //Delphi VCL
18628: 58 unit uPSI_CDSUtil; //MIDAS
18629: 59 unit uPSI_VarHlpr; //Delphi RTL
18630: 60 unit uPSI_ExtDlgs; //Delphi VCL
18631: 61 unit sdpStopwatch; //maXbox
18632: 62 unit uPSI_JclStatistics; //JCL
18633: 63 unit uPSI_JclLogic; //JCL
18634: 64 unit uPSI_JclMiscel; //JCL
18635: 65 unit uPSI_JclMath_max; //JCL RTL
18636: 66 unit uPSI_uTPLb_StreamUtils; //LockBox 3
18637: 67 unit uPSI_MathUtils; //BCB
18638: 68 unit uPSI_JclMultimedia; //JCL
18639: 69 unit uPSI_WideStrUtils; //Delphi API/RTL
18640: 70 unit uPSI_GraphUtil; //Delphi RTL
18641: 71 unit uPSI_TypeTrans; //Delphi RTL
18642: 72 unit uPSI_HTTPApp; //Delphi VCL
18643: 73 unit uPSI_DBWeb; //Delphi VCL
18644: 74 unit uPSI_DBBdeWeb; //Delphi VCL
18645: 75 unit uPSI_DBXpressWeb; //Delphi VCL
18646: 76 unit uPSI_ShadowWnd; //Delphi VCL
18647: 77 unit uPSI_ToolWin; //Delphi VCL
18648: 78 unit uPSI_Tabs; //Delphi VCL
18649: 79 unit uPSI_JclGraphUtils; //JCL
18650: 80 unit uPSI_JclCounter; //JCL
18651: 81 unit uPSI_JclSysInfo; //JCL
18652: 82 unit uPSI_JclSecurity; //JCL
18653: 83 unit uPSI_JclFileUtils; //JCL
18654: 84 unit uPSI_IdUserAccounts; //Indy
18655: 85 unit uPSI_IdAuthentication; //Indy
18656: 86 unit uPSI_uTPLb_AES; //LockBox 3
18657: 87 unit uPSI_IdHashSHA1; //LockBox 3
18658: 88 unit uTPLb_BlockCipher; //LockBox 3
18659: 89 unit uPSI_ValEdit.pas; //Delphi VCL
18660: 90 unit uPSI_JvVCLUtils; //JCL
18661: 91 unit uPSI_JvDBUtil; //JCL
18662: 92 unit uPSI_JvDBUtils; //JCL
18663: 93 unit uPSI_JvAppUtils; //JCL
18664: 94 unit uPSI_JvCtrlUtils; //JCL
18665: 95 unit uPSI_JvFormToHtml; //JCL
18666: 96 unit uPSI_JvParsing; //JCL
18667: 97 unit uPSI_SerDlgs; //Toolbox
18668: 98 unit uPSI_Serial; //Toolbox
18669: 99 unit uPSI_JvComponent; //JCL
18670: 100 unit uPSI_JvCalc; //JCL
18671: 101 unit uPSI_JvBdeUtils; //JCL
18672: 102 unit uPSI_JvDateUtil; //JCL
18673: 103 unit uPSI_JvGenetic; //JCL
18674: 104 unit uPSI_JclBase; //JCL
18675: 105 unit uPSI_JvUtils; //JCL
18676: 106 unit uPSI_JvStrUtil; //JCL
18677: 107 unit uPSI_JvStrUtils; //JCL
18678: 108 unit uPSI_JvFileUtil; //JCL
18679: 109 unit uPSI_JvMemoryInfos; //JCL
18680: 110 unit uPSI_JvComputerInfo; //JCL
18681: 111 unit uPSI_JvgCommClasses; //JCL
18682: 112 unit uPSI_JvgLogics; //JCL
18683: 113 unit uPSI_JvLED; //JCL
18684: 114 unit uPSI_JvTurtle; //JCL
18685: 115 unit uPSI_SortThds; unit uPSI_ThSort; //maXbox
18686: 116 unit uPSI_JvgUtils; //JCL

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18687: 117 unit uPSI_JvExprParser; //JCL
18688: 118 unit uPSI_HexDump; //Borland
18689: 119 unit uPSI_DBLogDlg; //VCL
18690: 120 unit uPSI_SqlTimSt; //RTL
18691: 121 unit uPSI_JvHtmlParser; //JCL
18692: 122 unit uPSI_JvgXMLSerializer; //JCL
18693: 123 unit uPSI_JvJCLUtils; //JCL
18694: 124 unit uPSI_JvStrings; //JCL
18695: 125 unit uPSI_uTPLb_IntegerUtils; //TurboPower
18696: 126 unit uPSI_uTPLb_HugeCardinal; //TurboPower
18697: 127 unit uPSI_uTPLb_HugeCardinalUtils; //TurboPower
18698: 128 unit uPSI_SynRegExpr; //SynEdit
18699: 129 unit uPSI_StUtils; //SysTools4
18700: 130 unit uPSI_StToHTML; //SysTools4
18701: 131 unit uPSI_StStrms; //SysTools4
18702: 132 unit uPSI_StFIN; //SysTools4
18703: 133 unit uPSI_StAstroP; //SysTools4
18704: 134 unit uPSI_StStat; //SysTools4
18705: 135 unit uPSI_StNetCon; //SysTools4
18706: 136 unit uPSI_StDecMth; //SysTools4
18707: 137 unit uPSI_StOStr; //SysTools4
18708: 138 unit uPSI_StPtrns; //SysTools4
18709: 139 unit uPSI_StNetMessage; //SysTools4
18710: 140 unit uPSI_StMath; //SysTools4
18711: 141 unit uPSI_StExpEng; //SysTools4
18712: 142 unit uPSI_StCRC; //SysTools4
18713: 143 unit uPSI_StExport; //SysTools4
18714: 144 unit uPSI_StExpLog; //SysTools4
18715: 145 unit uPSI_ActnList; //Delphi VCL
18716: 146 unit uPSI_jpeg; //Borland
18717: 147 unit uPSI_StRandom; //SysTools4
18718: 148 unit uPSI_StDict; //SysTools4
18719: 149 unit uPSI_StBCD; //SysTools4
18720: 150 unit uPSI_StTxtDat; //SysTools4
18721: 151 unit uPSI_StRegEx; //SysTools4
18722: 152 unit uPSI_IMouse; //VCL
18723: 153 unit uPSI_SyncObjs; //VCL
18724: 154 unit uPSI_AsyncCalls; //Hausladen
18725: 155 unit uPSI_ParallelJobs; //Saraiva
18726: 156 unit uPSI_Variants; //VCL
18727: 157 unit uPSI_VarCmplx; //VCL Wolfram
18728: 158 unit uPSI_DTDSchema; //VCL
18729: 159 unit uPSI_ShLwApi; //Brakel
18730: 160 unit uPSI_IBUtils; //VCL
18731: 161 unit uPSI_CheckLst; //VCL
18732: 162 unit uPSI_JvSimpleXml; //JCL
18733: 163 unit uPSI_JclSimpleXml; //JCL
18734: 164 unit uPSI_JvXmlDatabase; //JCL
18735: 165 unit uPSI_JvMaxPixel; //JCL
18736: 166 unit uPSI_JvItemsSearchs; //JCL
18737: 167 unit uPSI_StExpEng2; //SysTools4
18738: 168 unit uPSI_StGenLog; //SysTools4
18739: 169 unit uPSI_JvLogFile; //Jcl
18740: 170 unit uPSI_CPort; //ComPort Lib v4.11
18741: 171 unit uPSI_CPortCtl; //ComPort
18742: 172 unit uPSI_CPortEsc; //ComPort
18743: 173 unit BarCodeScanner; //ComPort
18744: 174 unit uPSI_JvGraph; //JCL
18745: 175 unit uPSI_JvComCtrls; //JCL
18746: 176 unit uPSI_GUITesting; //D Unit
18747: 177 unit uPSI_JvFindFiles; //JCL
18748: 178 unit uPSI_StSystem; //SysTools4
18749: 179 unit uPSI_JvKeyboardStates; //JCL
18750: 180 unit uPSI_JvMail; //JCL
18751: 181 unit uPSI_JclConsole; //JCL
18752: 182 unit uPSI_JclLANMan; //JCL
18753: 183 unit uPSI_IdCustomHTTPServer; //Indy
18754: 184 unit IdHTTPServer; //Indy
18755: 185 unit uPSI_IdTCPServer; //Indy
18756: 186 unit uPSI_IdSocketHandle; //Indy
18757: 187 unit uPSI_IdIOHandlerSocket; //Indy
18758: 188 unit IdIOHandler; //Indy
18759: 189 unit uPSI_cutils; //Bloodshed
18760: 190 unit uPSI_BoldUtils; //boldsoft
18761: 191 unit uPSI_IdSimpleServer; //Indy
18762: 192 unit uPSI_IdSSLOpenSSL; //Indy
18763: 193 unit uPSI_IdMultipartFormData; //Indy
18764: 194 unit uPSI_SynURIOpener; //SynEdit
18765: 195 unit uPSI_PperlRegEx; //PCRE
18766: 196 unit uPSI_IdHeaderList; //Indy
18767: 197 unit uPSI_StFirst; //SysTools4
18768: 198 unit uPSI_JvCtrls; //JCL
18769: 199 unit uPSI_IdTrivialFTPBase; //Indy
18770: 200 unit uPSI_IdTrivialFTP; //Indy
18771: 201 unit uPSI_IdUDFBase; //Indy
18772: 202 unit uPSI_IdUDFClient; //Indy
18773: 203 unit uPSI_utypes; //for DMath.DLL
18774: 204 unit uPSI_ShellAPI; //Borland
18775: 205 unit uPSI_IdRemoteCMDClient; //Indy

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18776: 206 unit uPSI_IdRemoteCMDServer; //Indy
18777: 207 unit IdRexecServer; //Indy
18778: 208 unit IdRexec; (unit uPSI_IdRexec;) //Indy
18779: 209 unit IdUDPServer; //Indy
18780: 210 unit IdTimeUDPServer; //Indy
18781: 211 unit IdTimeServer; //Indy
18782: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;) //Indy
18783: 213 unit uPSI_IdIPWatch; //Indy
18784: 214 unit uPSI_IdIrcServer; //Indy
18785: 215 unit uPSI_IdMessageCollection; //Indy
18786: 216 unit uPSI_cPEM; //Fundamentals 4
18787: 217 unit uPSI_cFundamentUtils; //Fundamentals 4
18788: 218 unit uPSI_uwinplot; //DMath
18789: 219 unit uPSI_xrtl_util_CPUUtils; //ExtendedRTL
18790: 220 unit uPSI_GR32_System; //Graphics32
18791: 221 unit uPSI_cFileUtils; //Fundamentals 4
18792: 222 unit uPSI_cDateTime; (timemachine) //Fundamentals 4
18793: 223 unit uPSI_Timers; (high precision timer) //Fundamentals 4
18794: 224 unit uPSI_cRandom; //Fundamentals 4
18795: 225 unit uPSI_ueval; //DMath
18796: 226 unit uPSI_xrtl_net_URIUtils; //ExtendedRTL
18797: 227 unit xrtl_net_URIUtils; //ExtendedRTL
18798: 228 unit uPSI_ufft; (FFT) //DMath
18799: 229 unit uPSI_DBXChannel; //Delphi
18800: 230 unit uPSI_DBXIndyChannel; //Delphi Indy
18801: 231 unit uPSI_xrtl_util_COMCat; //ExtendedRTL
18802: 232 unit uPSI_xrtl_util_StrUtils; //ExtendedRTL
18803: 233 unit uPSI_xrtl_util_VariantUtils; //ExtendedRTL
18804: 234 unit uPSI_xrtl_util_FileUtils; //ExtendedRTL
18805: 235 unit xrtl_util_Compat; //ExtendedRTL
18806: 236 unit uPSI_OleAuto; //Borland
18807: 237 unit uPSI_xrtl_util_COMUtils; //ExtendedRTL
18808: 238 unit uPSI_CmAdmCtl; //Borland
18809: 239 unit uPSI_ValEdit2; //VCL
18810: 240 unit uPSI_GR32; //Graphics32
18811: 241 unit uPSI_GR32_Image; //Graphics32
18812: 242 unit uPSI_xrtl_util_TimeUtils; //ExtendedRTL
18813: 243 unit uPSI_xrtl_util_TimeZone; //ExtendedRTL
18814: 244 unit uPSI_xrtl_util_TimeStamp; //ExtendedRTL
18815: 245 unit uPSI_xrtl_util_Map; //ExtendedRTL
18816: 246 unit uPSI_xrtl_util_Set; //ExtendedRTL
18817: 247 unit uPSI_CPortMonitor; //ComPort
18818: 248 unit uPSI_StIniStm; //SysTools4
18819: 249 unit uPSI_GR32_ExtImage; //Graphics32
18820: 250 unit uPSI_GR32_OrdinalMaps; //Graphics32
18821: 251 unit uPSI_GR32_Rasterizers; //Graphics32
18822: 252 unit uPSI_xrtl_util_Exception; //ExtendedRTL
18823: 253 unit uPSI_xrtl_util_Value; //ExtendedRTL
18824: 254 unit uPSI_xrtl_util_Compare; //ExtendedRTL
18825: 255 unit uPSI_FlatSB; //VCL
18826: 256 unit uPSI_JvAnalogClock; //JCL
18827: 257 unit uPSI_JvAlarms; //JCL
18828: 258 unit uPSI_JvSQLS; //JCL
18829: 259 unit uPSI_JvDBSecur; //JCL
18830: 260 unit uPSI_JvDBQBE; //JCL
18831: 261 unit uPSI_JvStarfield; //JCL
18832: 262 unit uPSI_JVCLMiscal; //JCL
18833: 263 unit uPSI_JvProfiler32; //JCL
18834: 264 unit uPSI_JvDirectories; //JCL
18835: 265 unit uPSI_JclSchedule; //JCL
18836: 266 unit uPSI_JclSvcCtrl; //JCL
18837: 267 unit uPSI_JvSoundControl; //JCL
18838: 268 unit uPSI_JvBDESQLScript; //JCL
18839: 269 unit uPSI_JvgDigits; //JCL>
18840: 270 unit uPSI_ImgList; //TCustomImageList
18841: 271 unit uPSI_JclMIDI; //JCL>
18842: 272 unit uPSI_JclWinMidi; //JCL>
18843: 273 unit uPSI_JclNTFS; //JCL>
18844: 274 unit uPSI_JclAppInst; //JCL>
18845: 275 unit uPSI_JvRle; //JCL>
18846: 276 unit uPSI_JvRas32; //JCL>
18847: 277 unit uPSI_JvImageDrawThread; //JCL>
18848: 278 unit uPSI_JvImageWindow; //JCL>
18849: 279 unit uPSI_JvTransparentForm; //JCL>
18850: 280 unit uPSI_JvWinDialogs; //JCL>
18851: 281 unit uPSI_JvSimLogic; //JCL>
18852: 282 unit uPSI_JvSimIndicator; //JCL>
18853: 283 unit uPSI_JvSimPID; //JCL>
18854: 284 unit uPSI_JvSimPIDLinker; //JCL>
18855: 285 unit uPSI_IdRFCReply; //Indy
18856: 286 unit uPSI_IdIdent; //Indy
18857: 287 unit uPSI_IdIdentServer; //Indy
18858: 288 unit uPSI_JvPatchFile; //JCL
18859: 289 unit uPSI_StNetPfm; //SysTools4
18860: 290 unit uPSI_StNet; //SysTools4
18861: 291 unit uPSI_JclPeImage; //JCL
18862: 292 unit uPSI_JclPrint; //JCL
18863: 293 unit uPSI_JclMime; //JCL
18864: 294 unit uPSI_JvRichEdit; //JCL

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18865: 295 unit uPSI_JvDBRichEd; //JCL
18866: 296 unit uPSI_JvDice; //JCL
18867: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
18868: 298 unit uPSI_JvDirFrm; //JCL
18869: 299 unit uPSI_JvDualList; //JCL
18870: 300 unit uPSI_JvSwitch; ///JCL
18871: 301 unit uPSI_JvTimerLst; ///JCL
18872: 302 unit uPSI_JvMemTable; //JCL
18873: 303 unit uPSI_JvObjStr; //JCL
18874: 304 unit uPSI_StLArr; //SysTools4
18875: 305 unit uPSI_StWmDCpy; //SysTools4
18876: 306 unit uPSI_StText; //SysTools4
18877: 307 unit uPSI_StNTLog; //SysTools4
18878: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
18879: 309 unit uPSI_JvImagPrvw; //JCL
18880: 310 unit uPSI_JvFormPatch; //JCL
18881: 311 unit uPSI_JvPicClip; //JCL
18882: 312 unit uPSI_JvDataConv; //JCL
18883: 313 unit uPSI_JvCpuUsage; //JCL
18884: 314 unit uPSI_JclUnitConv_mX2; //JCL
18885: 315 unit JvDualListForm; //JCL
18886: 316 unit uPSI_JvCpuUsage2; //JCL
18887: 317 unit uPSI_JvParserForm; //JCL
18888: 318 unit uPSI_JvJanTreeView; //JCL
18889: 319 unit uPSI_JvTransLED; //JCL
18890: 320 unit uPSI_JvPlaylist; //JCL
18891: 321 unit uPSI_JvFormAutoSize; //JCL
18892: 322 unit uPSI_JvYearGridEditForm; //JCL
18893: 323 unit uPSI_JvMarkupCommon; //JCL
18894: 324 unit uPSI_JvChart; //JCL
18895: 325 unit uPSI_JvXPCore; //JCL
18896: 326 unit uPSI_JvXPCoreUtils; //JCL
18897: 327 unit uPSI_StatsClasses; //mX4
18898: 328 unit uPSI_ExtCtrls2; //VCL
18899: 329 unit uPSI_JvUrlGrabbers; //JCL
18900: 330 unit uPSI_JvXmlTree; //JCL
18901: 331 unit uPSI_JvWavePlayer; //JCL
18902: 332 unit uPSI_JvUnicodeCanvas; //JCL
18903: 333 unit uPSI_JvTFUtils; //JCL
18904: 334 unit uPSI_IdServerIOHandler; //Indy
18905: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
18906: 336 unit uPSI_IdMessageCoder; //Indy
18907: 337 unit uPSI_IdMessageCoderMIME; //Indy
18908: 338 unit uPSI_IdMIMETypes; //Indy
18909: 339 unit uPSI_JvConverter; //JCL
18910: 340 unit uPSI_JvCsvParse; //JCL
18911: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
18912: 342 unit uPSI_ExcelExport; (Nat:TJsExcelExport) //JCL
18913: 343 unit uPSI_JvDBGridExport; //JCL
18914: 344 unit uPSI_JvgExport; //JCL
18915: 345 unit uPSI_JvSerialMaker; //JCL
18916: 346 unit uPSI_JvWin32; //JCL
18917: 347 unit uPSI_JvPaintFX; //JCL
18918: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
18919: 349 unit uPSI_JvValidators; (preview) //JCL
18920: 350 unit uPSI_JvNTEventLog; //JCL
18921: 351 unit uPSI_ShellZipTool; //mX4
18922: 352 unit uPSI_JvJoystick; //JCL
18923: 353 unit uPSI_JvMailSlots; //JCL
18924: 354 unit uPSI_JclComplex; //JCL
18925: 355 unit uPSI_SynPdf; //Synopsis
18926: 356 unit uPSI_Registry; //VCL
18927: 357 unit uPSI_TlHelp32; //VCL
18928: 358 unit uPSI_JclRegistry; //JCL
18929: 359 unit uPSI_JvAirBrush; //JCL
18930: 360 unit uPSI_mORMotReport; //Synopsis
18931: 361 unit uPSI_JclLocales; //JCL
18932: 362 unit uPSI_SynEdit; //SynEdit
18933: 363 unit uPSI_SynEditTypes; //SynEdit
18934: 364 unit uPSI_SynMacroRecorder; //SynEdit
18935: 365 unit uPSI_LongIntList; //SynEdit
18936: 366 unit uPSI_devcutils; //DevC
18937: 367 unit uPSI_SynEditMiscClasses; //SynEdit
18938: 368 unit uPSI_SynEditRegexSearch; //SynEdit
18939: 369 unit uPSI_SynEditHighlighter; //SynEdit
18940: 370 unit uPSI_SynHighlighterPas; //SynEdit
18941: 371 unit uPSI_JvSearchFiles; //JCL
18942: 372 unit uPSI_SynHighlighterAny; //Lazarus
18943: 373 unit uPSI_SynEditKeyCmds; //SynEdit
18944: 374 unit uPSI_SynEditMiscProcs; //SynEdit
18945: 375 unit uPSI_SynEditKbdHandler; //SynEdit
18946: 376 unit uPSI_JvAppInst; //JCL
18947: 377 unit uPSI_JvAppEvent; //JCL
18948: 378 unit uPSI_JvAppCommand; //JCL
18949: 379 unit uPSI_JvAnimTitle; //JCL
18950: 380 unit uPSI_JvAnimatedImage; //JCL
18951: 381 unit uPSI_SynEditExport; //SynEdit
18952: 382 unit uPSI_SynExportHTML; //SynEdit
18953: 383 unit uPSI_SynExportRTF; //SynEdit

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18954: 384 unit uPSI_SynEditSearch; //SynEdit
18955: 385 unit uPSI_fMain_back //maXbox;
18956: 386 unit uPSI_JvZoom; //JCL
18957: 387 unit uPSI_PMrand; //PM
18958: 388 unit uPSI_JvSticker; //JCL
18959: 389 unit uPSI_XmlVerySimple; //mX4
18960: 390 unit uPSI_Services; //ExtPascal
18961: 391 unit uPSI_ExtPascalUtils; //ExtPascal
18962: 392 unit uPSI_SocketsDelphi; //ExtPascal
18963: 393 unit uPSI_StBarC; //SysTools
18964: 394 unit uPSI_StDbBarC; //SysTools
18965: 395 unit uPSI_StBarPN; //SysTools
18966: 396 unit uPSI_StDbPNBC; //SysTools
18967: 397 unit uPSI_StDb2DBC; //SysTools
18968: 398 unit uPSI_StMoney; //SysTools
18969: 399 unit uPSI_JvForth; //JCL
18970: 400 unit uPSI_RestRequest; //mX4
18971: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
18972: 402 unit uPSI_JvXmlDatabase; //update
18973: 403 unit uPSI_StAstro; //SysTools
18974: 404 unit uPSI_StSort; //SysTools
18975: 405 unit uPSI_StDate; //SysTools
18976: 406 unit uPSI_StDateSt; //SysTools
18977: 407 unit uPSI_StBase; //SysTools
18978: 408 unit uPSI_StVInfo; //SysTools
18979: 409 unit uPSI_JvBrowseFolder; //JCL
18980: 410 unit uPSI_JvBoxProcs; //JCL
18981: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
18982: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
18983: 413 unit uPSI_JvHighlighter; //JCL
18984: 414 unit uPSI_Diff; //mX4
18985: 415 unit uPSI_SpringWinAPI; //DSpring
18986: 416 unit uPSI_StBits; //SysTools
18987: 417 unit uPSI_TomDBQueue; //mX4
18988: 418 unit uPSI_MultilangTranslator; //mX4
18989: 419 unit uPSI_HyperLabel; //mX4
18990: 420 unit uPSI_Starter; //mX4
18991: 421 unit uPSI_FileAssocs; //devC
18992: 422 unit uPSI_devFileMonitorX; //devC
18993: 423 unit uPSI_devrun; //devC
18994: 424 unit uPSI_devExec; //devC
18995: 425 unit uPSI_oysUtils; //devC
18996: 426 unit uPSI_DosCommand; //devC
18997: 427 unit uPSI_CppTokenizer; //devC
18998: 428 unit uPSI_JvHLPParser; //devC
18999: 429 unit uPSI_JclMapi; //JCL
19000: 430 unit uPSI_JclShell; //JCL
19001: 431 unit uPSI_JclCOM; //JCL
19002: 432 unit uPSI_GR32_Math; //Graphics32
19003: 433 unit uPSI_GR32_LowLevel; //Graphics32
19004: 434 unit uPSI_SimpleHl; //mX4
19005: 435 unit uPSI_GR32_Filters; //Graphics32
19006: 436 unit uPSI_GR32_VectorMaps; //Graphics32
19007: 437 unit uPSI_cXMLFunctions; //Fundamentals 4
19008: 438 unit uPSI_JvTimer; //JCL
19009: 439 unit uPSI_cHTTPUtils; //Fundamentals 4
19010: 440 unit uPSI_cTLSUtils; //Fundamentals 4
19011: 441 unit uPSI_JclGraphics; //JCL
19012: 442 unit uPSI_JclSynch; //JCL
19013: 443 unit uPSI_IdTelnet; //Indy
19014: 444 unit uPSI_IdTelnetServer; //Indy
19015: 445 unit uPSI_IdEcho; //Indy
19016: 446 unit uPSI_IdEchoServer; //Indy
19017: 447 unit uPSI_IdEchoUDP; //Indy
19018: 448 unit uPSI_IdEchoUDPServer; //Indy
19019: 449 unit uPSI_IdSocks; //Indy
19020: 450 unit uPSI_IdAntiFreezeBase; //Indy
19021: 451 unit uPSI_IdHostnameServer; //Indy
19022: 452 unit uPSI_IdTunnelCommon; //Indy
19023: 453 unit uPSI_IdTunnelMaster; //Indy
19024: 454 unit uPSI_IdTunnelSlave; //Indy
19025: 455 unit uPSI_IdRSH; //Indy
19026: 456 unit uPSI_IdRSHServer; //Indy
19027: 457 unit uPSI_Spring_Cryptography_Utils; //Spring4Delphi
19028: 458 unit uPSI_MapReader; //devC
19029: 459 unit uPSI_LibTar; //devC
19030: 460 unit uPSI_IdStack; //Indy
19031: 461 unit uPSI_IdBlockCipherIntercept; //Indy
19032: 462 unit uPSI_IdChargenServer; //Indy
19033: 463 unit uPSI_IdFTPServer; //Indy
19034: 464 unit uPSI_IdException; //Indy
19035: 465 unit uPSI_utexplore; //DMath
19036: 466 unit uPSI_uwinstr; //DMath
19037: 467 unit uPSI_VarRecUtils; //devC
19038: 468 unit uPSI_JvStringListToHtml; //JCL
19039: 469 unit uPSI_JvStringHolder; //JCL
19040: 470 unit uPSI_IdCoder; //Indy
19041: 471 unit uPSI_SynHighlighterDfm; //Synedit
19042: 472 unit uHighlighterProcs; in 471 //Synedit

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19043: 473 unit uPSI_LazFileUtils, //LCL
19044: 474 unit uPSI_IDECmdLine; //LCL
19045: 475 unit uPSI_lazMasks; //LCL
19046: 476 unit uPSI_ip_misc; //mX4
19047: 477 unit uPSI_Barcode; //LCL
19048: 478 unit uPSI_SimpleXML; //LCL
19049: 479 unit uPSI_JclIniFiles; //JCL
19050: 480 unit uPSI_D2XXUnit; {$X-} //FTDI
19051: 481 unit uPSI_JclDateTime; //JCL
19052: 482 unit uPSI_JclEDI; //JCL
19053: 483 unit uPSI_JclMiscel2; //JCL
19054: 484 unit uPSI_JclValidation; //JCL
19055: 485 unit uPSI_JclAnsiStrings; {-PString} //JCL
19056: 486 unit uPSI_SynEditMiscProcs2; //Synedit
19057: 487 unit uPSI_JclStreams; //JCL
19058: 488 unit uPSI_QRCode; //mX4
19059: 489 unit uPSI_BlockSocket; //ExtPascal
19060: 490 unit uPSI_Masks,Utills //VCL
19061: 491 unit uPSI_synutil; //Synapse!
19062: 492 unit uPSI_JclMath_Class; //JCL RTL
19063: 493 unit ugamdist; //Gamma function //DMath
19064: 494 unit uibeta, ucorrel; //IBeta //DMath
19065: 495 unit uPSI_SRMgr; //mX4
19066: 496 unit uPSI_HotLog; //mX4
19067: 497 unit uPSI_DebugBox; //mX4
19068: 498 unit uPSI_ustrings; //DMath
19069: 499 unit uPSI_uregtest; //DMath
19070: 500 unit uPSI_usimplex; //DMath
19071: 501 unit uPSI_uhyper; //DMath
19072: 502 unit uPSI_IdHL7; //Indy
19073: 503 unit uPSI_IdIPMCastBase, //Indy
19074: 504 unit uPSI_IdIPMCastServer; //Indy
19075: 505 unit uPSI_IdIPMCastClient; //Indy
19076: 506 unit uPSI_unlfit; //nlregression //DMath
19077: 507 unit uPSI_IdRawHeaders; //Indy
19078: 508 unit uPSI_IdRawClient; //Indy
19079: 509 unit uPSI_IdRawFunctions; //Indy
19080: 510 unit uPSI_IdTCPStream; //Indy
19081: 511 unit uPSI_IdSNPP; //Indy
19082: 512 unit uPSI_St2DBarC; //SysTools
19083: 513 unit uPSI_ImageWin; //FTL //VCL
19084: 514 unit uPSI_CustomDrawTreeView; //FTL //VCL
19085: 515 unit uPSI_GraphWin; //FTL //VCL
19086: 516 unit uPSI_actionMain; //FTL //VCL
19087: 517 unit uPSI_StSpawn; //SysTools
19088: 518 unit uPSI_CtlPanel; //VCL
19089: 519 unit uPSI_IdLPR; //Indy
19090: 520 unit uPSI_SockRequestInterpreter; //Indy
19091: 521 unit uPSI_ulambert; //DMath
19092: 522 unit uPSI_ucholesk; //DMath
19093: 523 unit uPSI_SimpleDS; //VCL
19094: 524 unit uPSI_DBXSqlScanner; //VCL
19095: 525 unit uPSI_DBXMetaDataUtil; //VCL
19096: 526 unit uPSI_Chart; //TEE
19097: 527 unit uPSI_TeeProcs; //TEE
19098: 528 unit mXBDEUtils; //mX4
19099: 529 unit uPSI_MDIEdit; //VCL
19100: 530 unit uPSI_CopyPrsr; //VCL
19101: 531 unit uPSI_SockApp; //VCL
19102: 532 unit uPSI_AppEvnts; //VCL
19103: 533 unit uPSI_ExtActns; //VCL
19104: 534 unit uPSI_TeEngine; //TEE
19105: 535 unit uPSI_CoolMain; //browser //VCL
19106: 536 unit uPSI_StCRC; //SysTools
19107: 537 unit uPSI_StDecMth2; //SysTools
19108: 538 unit uPSI_frmExportMain; //Synedit
19109: 539 unit uPSI_SynBEdit; //Synedit
19110: 540 unit uPSI_SynEditWildcardSearch; //Synedit
19111: 541 unit uPSI_BoldComUtils; //BOLD
19112: 542 unit uPSI_BoldIsoDateTime; //BOLD
19113: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
19114: 544 unit uPSI_BoldXMLRequests; //BOLD
19115: 545 unit uPSI_BoldStringList; //BOLD
19116: 546 unit uPSI_BoldFileHandler; //BOLD
19117: 547 unit uPSI_BoldContainers; //BOLD
19118: 548 unit uPSI_BoldQueryUserDlg; //BOLD
19119: 549 unit uPSI_BoldWinINet; //BOLD
19120: 550 unit uPSI_BoldQueue; //BOLD
19121: 551 unit uPSI_JvPcx; //JCL
19122: 552 unit uPSI_IdWhois; //Indy
19123: 553 unit uPSI_IdWhoIsServer; //Indy
19124: 554 unit uPSI_IdGopher; //Indy
19125: 555 unit uPSI_IdDateTimeStamp; //Indy
19126: 556 unit uPSI_IdDayTimeServer; //Indy
19127: 557 unit uPSI_IdDayTimeUDP; //Indy
19128: 558 unit uPSI_IdDayTimeUDPServer; //Indy
19129: 559 unit uPSI_IdDICTServer; //Indy
19130: 560 unit uPSI_IdDiscardServer; //Indy
19131: 561 unit uPSI_IdDiscardUDPServer; //Indy

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19132: 562 unit uPSI_IdMappedFTP; //Indy
19133: 563 unit uPSI_IdMappedPortTCP; //Indy
19134: 564 unit uPSI_IdGopherServer; //Indy
19135: 565 unit uPSI_IdQotdServer; //Indy
19136: 566 unit uPSI_JvRgbToHtml; //JCL
19137: 567 unit uPSI_JvRemLog; //JCL
19138: 568 unit uPSI_JvSysComp; //JCL
19139: 569 unit uPSI_JvTMTL; //JCL
19140: 570 unit uPSI_JvWinampAPI; //JCL
19141: 571 unit uPSI_MSysUtils; //mX4
19142: 572 unit uPSI_ESBMaths; //ESB
19143: 573 unit uPSI_ESBMaths2; //ESB
19144: 574 unit uPSI_uLkJSON; //Lk
19145: 575 unit uPSI_ZURL; //Zeos
19146: 576 unit uPSI_ZSysUtils; //Zeos
19147: 577 unit unaUtils internals //UNA
19148: 578 unit uPSI_ZMatchPattern; //Zeos
19149: 579 unit uPSI_ZClasses; //Zeos
19150: 580 unit uPSI_ZCollections; //Zeos
19151: 581 unit uPSI_ZEncoding; //Zeos
19152: 582 unit uPSI_IdRawBase; //Indy
19153: 583 unit uPSI_IdNTLM; //Indy
19154: 584 unit uPSI_IdNNTP; //Indy
19155: 585 unit uPSI_usniffer; //PortScanForm
19156: 586 unit uPSI_IdCoderMIME; //Indy
19157: 587 unit uPSI_IdCoderUUE; //Indy
19158: 588 unit uPSI_IdCoderXXE; //Indy
19159: 589 unit uPSI_IdCoder3to4; //Indy
19160: 590 unit uPSI_IdCookie; //Indy
19161: 591 unit uPSI_IdCookieManager; //Indy
19162: 592 unit uPSI_WDosSocketUtils; //WDos
19163: 593 unit uPSI_WDosPlcUtils; //WDos
19164: 594 unit uPSI_WDosPorts; //WDos
19165: 595 unit uPSI_WDosResolvers; //WDos
19166: 596 unit uPSI_WDosTimers; //WDos
19167: 597 unit uPSI_WDosPlcs; //WDos
19168: 598 unit uPSI_WDosPneumatics; //WDos
19169: 599 unit uPSI_IdFingerServer; //Indy
19170: 600 unit uPSI_IdDNSResolver; //Indy
19171: 601 unit uPSI_IdHTTPWebBrokerBridge; //Indy
19172: 602 unit uPSI_IdIntercept; //Indy
19173: 603 unit uPSI_IdIPMCastBase; //Indy
19174: 604 unit uPSI_IdLogBase; //Indy
19175: 605 unit uPSI_IdIOHandlerStream; //Indy
19176: 606 unit uPSI_IdMappedPortUDP; //Indy
19177: 607 unit uPSI_IdQOTDUDPServer; //Indy
19178: 608 unit uPSI_IdQOTDUDP; //Indy
19179: 609 unit uPSI_IdSysLog; //Indy
19180: 610 unit uPSI_IdSysLogServer; //Indy
19181: 611 unit uPSI_IdSysLogMessage; //Indy
19182: 612 unit uPSI_IdTimeServer; //Indy
19183: 613 unit uPSI_IdTimeUDP; //Indy
19184: 614 unit uPSI_IdTimeUDPServer; //Indy
19185: 615 unit uPSI_IdUserAccounts; //Indy
19186: 616 unit uPSI_TextUtils; //mX4
19187: 617 unit uPSI_MandelbrotEngine; //mX4
19188: 618 unit uPSI_delphi_arduino_Unit1; //mX4
19189: 619 unit uPSI_DTDSchema2; //mX4
19190: 620 unit uPSI_fplotMain; //DMath
19191: 621 unit uPSI_FindFileIter; //mX4
19192: 622 unit uPSI_PppState; (JclStrHashMap) //PPP
19193: 623 unit uPSI_PppParser; //PPP
19194: 624 unit uPSI_PppLexer; //PPP
19195: 625 unit uPSI_PCharUtils; //PPP
19196: 626 unit uPSI_uJSON; //WU
19197: 627 unit uPSI_JclStrHashMap; //JCL
19198: 628 unit uPSI_JclHookExcept; //JCL
19199: 629 unit uPSI_EncdDecd; //VCL
19200: 630 unit uPSI_SockAppReg; //VCL
19201: 631 unit uPSI_PJFileHandle; //PJ
19202: 632 unit uPSI_PJEnvVars; //PJ
19203: 633 unit uPSI_PJPipe; //PJ
19204: 634 unit uPSI_PJPipeFilters; //PJ
19205: 635 unit uPSI_PJConsoleApp; //PJ
19206: 636 unit uPSI_UConsoleAppEx; //PJ
19207: 637 unit uPSI_DbxSocketChannelNative; //VCL
19208: 638 unit uPSI_DbxDataGenerator; //VCL
19209: 639 unit uPSI_DBXClient; //VCL
19210: 640 unit uPSI_IdLogEvent; //Indy
19211: 641 unit uPSI_Reversi; //mX4
19212: 642 unit uPSI_Geometry; //mX4
19213: 643 unit uPSI_IdSMTPServer; //Indy
19214: 644 unit uPSI_Textures; //mX4
19215: 645 unit uPSI_IBX; //VCL
19216: 646 unit uPSI_IWDBCommon; //VCL
19217: 647 unit uPSI_SortGrid; //mX4
19218: 648 unit uPSI_IB; //VCL
19219: 649 unit uPSI_IBScript; //VCL
19220: 650 unit uPSI_JvCSVBaseControls; //JCL

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19221: 651 unit uPSI_Jvg3DColors; //JCL
19222: 652 unit uPSI_JvHLEditor; //beat
19223: 653 unit uPSI_JvShellHook; //JCL
19224: 654 unit uPSI_DBCommon2; //VCL
19225: 655 unit uPSI_JvSHFileOperation; //JCL
19226: 656 unit uPSI_uFilexport; //mX4
19227: 657 unit uPSI_JvDialogs; //JCL
19228: 658 unit uPSI_JvDBTreeView; //JCL
19229: 659 unit uPSI_JvDBUltimGrid; //JCL
19230: 660 unit uPSI_JvDBQueryParamsForm; //JCL
19231: 661 unit uPSI_JvExControls; //JCL
19232: 662 unit uPSI_JvBDEMemTable; //JCL
19233: 663 unit uPSI_JvCommStatus; //JCL
19234: 664 unit uPSI_JvMailSlots2; //JCL
19235: 665 unit uPSI_JvgWinMask; //JCL
19236: 666 unit uPSI_StEclipse; //SysTools
19237: 667 unit uPSI_StMime; //SysTools
19238: 668 unit uPSI_StList; //SysTools
19239: 669 unit uPSI_StMerge; //SysTools
19240: 670 unit uPSI_StStrS; //SysTools
19241: 671 unit uPSI_StTree; //SysTools
19242: 672 unit uPSI_StVArr; //SysTools
19243: 673 unit uPSI_StRegIni; //SysTools
19244: 674 unit uPSI_urkf; //DMath
19245: 675 unit uPSI_usvd; //DMath
19246: 676 unit uPSI_DepWalkUtils; //JCL
19247: 677 unit uPSI_OptionsFrm; //JCL
19248: 678 unit yuvconverts; //mX4
19249: 679 uPSI_JvPropAutoSave; //JCL
19250: 680 uPSI_AcIAPI; //alcinoe
19251: 681 uPSI_AviCap; //alcinoe
19252: 682 uPSI_ALAVLBinaryTree; //alcinoe
19253: 683 uPSI_ALFcnMisc; //alcinoe
19254: 684 uPSI_ALStringList; //alcinoe
19255: 685 uPSI_ALQuickSortList; //alcinoe
19256: 686 uPSI_ALStaticText; //alcinoe
19257: 687 uPSI_ALJSONDoc; //alcinoe
19258: 688 uPSI_ALGSMComm; //alcinoe
19259: 689 uPSI_ALWindows; //alcinoe
19260: 690 uPSI_ALMultiPartFormDataParser; //alcinoe
19261: 691 uPSI_ALHttpCommon; //alcinoe
19262: 692 uPSI_ALWebSpider; //alcinoe
19263: 693 uPSI_ALHttpClient; //alcinoe
19264: 694 uPSI_ALFcnHTML; //alcinoe
19265: 695 uPSI_ALFTPClient; //alcinoe
19266: 696 uPSI_ALInternetMessageCommon; //alcinoe
19267: 697 uPSI_ALWininetHttpClient; //alcinoe
19268: 698 uPSI_ALWininetFTPClient; //alcinoe
19269: 699 uPSI_ALWinHttpWrapper; //alcinoe
19270: 700 uPSI_ALWinHttpClient; //alcinoe
19271: 701 uPSI_ALFcnWinSock; //alcinoe
19272: 702 uPSI_ALFcnSQL; //alcinoe
19273: 703 uPSI_ALFcnCGI; //alcinoe
19274: 704 uPSI_ALFcnExecute; //alcinoe
19275: 705 uPSI_ALFcnFile; //alcinoe
19276: 706 uPSI_ALFcnMime; //alcinoe
19277: 707 uPSI_ALPhpRunner; //alcinoe
19278: 708 uPSI_ALGraphic; //alcinoe
19279: 709 uPSI_ALIniFiles; //alcinoe
19280: 710 uPSI_ALMemCachedClient; //alcinoe
19281: 711 unit uPSI_MyGrids; //mX4
19282: 712 uPSI_ALMultiPartMixedParser; //alcinoe
19283: 713 uPSI_ALSMTPClient; //alcinoe
19284: 714 uPSI_ALNNTPClient; //alcinoe
19285: 715 uPSI_ALHintBalloon; //alcinoe
19286: 716 unit uPSI_ALXmlDoc; //alcinoe
19287: 717 unit uPSI_IPCThrd; //VCL
19288: 718 unit uPSI_MonForm; //VCL
19289: 719 unit uPSI_TeCanvas; //Orpheus
19290: 720 unit uPSI_Ovcmisc; //Orpheus
19291: 721 unit uPSI_ovcfile; //Orpheus
19292: 722 unit uPSI_ovcstate; //Orpheus
19293: 723 unit uPSI_ovccoco; //Orpheus
19294: 724 unit uPSI_ovcrvexp; //Orpheus
19295: 725 unit uPSI_OvcFormatSettings; //Orpheus
19296: 726 unit uPSI_OvcUtils; //Orpheus
19297: 727 unit uPSI_ovcstore; //Orpheus
19298: 728 unit uPSI_ovcstr; //Orpheus
19299: 729 unit uPSI_ovcmru; //Orpheus
19300: 730 unit uPSI_ovcmd; //Orpheus
19301: 731 unit uPSI_ovctimer; //Orpheus
19302: 732 unit uPSI_ovcintl; //Orpheus
19303: 733 uPSI_AfCircularBuffer; //AsyncFree
19304: 734 uPSI_AfUtils; //AsyncFree
19305: 735 uPSI_AfSafeSync; //AsyncFree
19306: 736 uPSI_AfComPortCore; //AsyncFree
19307: 737 uPSI_AfComPort; //AsyncFree
19308: 738 uPSI_AfPortControls; //AsyncFree
19309: 739 uPSI_AfDataDispatcher; //AsyncFree

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19310: 740 uPSI_AfViewers; //AsyncFree
19311: 741 uPSI_AfDataTerminal; //AsyncFree
19312: 742 uPSI_SimplePortMain; //AsyncFree
19313: 743 unit uPSI_ovcclock; //Orpheus
19314: 744 unit uPSI_o32intl1st; //Orpheus
19315: 745 unit uPSI_o32ledlabel; //Orpheus
19316: 746 unit uPSI_ALMySqlClient; //alcinoe
19317: 747 unit uPSI_ALFBXClient; //alcinoe
19318: 748 unit uPSI_ALFcnSQL; //alcinoe
19319: 749 unit uPSI_AsyncTimer; //mX4
19320: 750 unit uPSI_ApplicationFileIO; //mX4
19321: 751 unit uPSI_PsAPI; //VCL6
19322: 752 uPSI_ovcuser; //Orpheus
19323: 753 uPSI_ovcurl; //Orpheus
19324: 754 uPSI_ovcvlb; //Orpheus
19325: 755 uPSI_ovccolor; //Orpheus
19326: 756 uPSI_ALFBXLib; //alcinoe
19327: 757 uPSI_ovcmeter; //Orpheus
19328: 758 uPSI_ovcpeakm; //Orpheus
19329: 759 uPSI_O32BGSty; //Orpheus
19330: 760 uPSI_ovcBidi; //Orpheus
19331: 761 uPSI_ovtcary; //Orpheus
19332: 762 uPSI_DXPUtills; //mX4
19333: 763 uPSI_ALMultiPartBaseParser; //alcinoe
19334: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
19335: 765 uPSI_ALPOP3Client; //alcinoe
19336: 766 uPSI_SmallUtills; //mX4
19337: 767 uPSI_MakeApp; //mX4
19338: 768 uPSI_O32MouseMon; //Orpheus
19339: 769 uPSI_OvcCache; //Orpheus
19340: 770 uPSI_ovccalc; //Orpheus
19341: 771 uPSI_Joystick; //OpenGL
19342: 772 uPSI_ScreenSaver; //OpenGL
19343: 773 uPSI_XCollection; //OpenGL
19344: 774 uPSI_Polynomials; //OpenGL
19345: 775 uPSI_PersistentClasses, //9.86 //OpenGL
19346: 776 uPSI_VectorLists; //OpenGL
19347: 777 uPSI_XOpenGL; //OpenGL
19348: 778 uPSI_MeshUtills; //OpenGL
19349: 779 unit uPSI_JclSysUtills; //JCL
19350: 780 unit uPSI_JclBorlandTools; //JCL
19351: 781 unit JclFileUtills_max; //JCL
19352: 782 uPSI_AfDataControls; //AsyncFree
19353: 783 uPSI_GLSilhouette; //OpenGL
19354: 784 uPSI_JclSysUtills_class; //JCL
19355: 785 uPSI_JclFileUtills_class; //JCL
19356: 786 uPSI_FileUtil; //JCL
19357: 787 uPSI_changefind; //mX4
19358: 788 uPSI_cmdIntf; //mX4
19359: 789 uPSI_fservice; //mX4
19360: 790 uPSI_Keyboard; //OpenGL
19361: 791 uPSI_VRMLParser; //OpenGL
19362: 792 uPSI_GLFileVRML; //OpenGL
19363: 793 uPSI_Octree; //OpenGL
19364: 794 uPSI_GLPolyhedron; //OpenGL
19365: 795 uPSI_GLCrossPlatform; //OpenGL
19366: 796 uPSI_GLParticles; //OpenGL
19367: 797 uPSI_GLNavigator; //OpenGL
19368: 798 uPSI_GLStarRecord; //OpenGL
19369: 799 uPSI_GLTextureCombiners; //OpenGL
19370: 800 uPSI_GLCanvas; //OpenGL
19371: 801 uPSI_GeometryBB; //OpenGL
19372: 802 uPSI_GeometryCoordinates; //OpenGL
19373: 803 uPSI_VectorGeometry; //OpenGL
19374: 804 uPSI_BumpMapping; //OpenGL
19375: 805 uPSI_TGA; //OpenGL
19376: 806 uPSI_GLVectorFileObjects; //OpenGL
19377: 807 uPSI_IMM; //VCL
19378: 808 uPSI_CategoryButtons; //VCL
19379: 809 uPSI_ButtonGroup; //VCL
19380: 810 uPSI_DbExcept; //VCL
19381: 811 uPSI_AxCtrls; //VCL
19382: 812 uPSI_GL_actorUnit1; //OpenGL
19383: 813 uPSI_StdVCL; //VCL
19384: 814 unit CurvesAndSurfaces; //OpenGL
19385: 815 uPSI_DataAwareMain; //AsyncFree
19386: 816 uPSI_TabNotBk; //VCL
19387: 817 uPSI_udwsfiler; //mX4
19388: 818 uPSI_synaip; //Synapse!
19389: 819 uPSI_synacode; //Synapse
19390: 820 uPSI_synachar; //Synapse
19391: 821 uPSI_synamisc; //Synapse
19392: 822 uPSI_synaser; //Synapse
19393: 823 uPSI_synaicnv; //Synapse
19394: 824 uPSI_tlintsend; //Synapse
19395: 825 uPSI_pingsend; //Synapse
19396: 826 uPSI_blksock; //Synapse
19397: 827 uPSI_asnlutil; //Synapse
19398: 828 uPSI_dnssend; //Synapse

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19399: 829 uPSI_clamsend; //Synapse
19400: 830 uPSI_ldapsend; //Synapse
19401: 831 uPSI_mimemess; //Synapse
19402: 832 uPSI_slogsend; //Synapse
19403: 833 uPSI_mimepart; //Synapse
19404: 834 uPSI_mimeinln; //Synapse
19405: 835 uPSI_ftpsend; //Synapse
19406: 836 uPSI_ftptsend; //Synapse
19407: 837 uPSI_httpsend; //Synapse
19408: 838 uPSI_sntpsend; //Synapse
19409: 839 uPSI_smtpsend; //Synapse
19410: 840 uPSI_snmpsend; //Synapse
19411: 841 uPSI_imapsend; //Synapse
19412: 842 uPSI_pop3send; //Synapse
19413: 843 uPSI_nntpsend; //Synapse
19414: 844 uPSI_ssl_cryptlib; //Synapse
19415: 845 uPSI_ssl_openssl; //Synapse
19416: 846 uPSI_synhttp_daemon; //Synapse
19417: 847 uPSI_NetWork; //mX4
19418: 848 uPSI_PingThread; //Synapse
19419: 849 uPSI_JvThreadTimer; //JCL
19420: 850 unit uPSI_wwSystem; //InfoPower
19421: 851 unit uPSI_IdComponent; //Indy
19422: 852 unit uPSI_IdIOHandlerThrottle; //Indy
19423: 853 unit uPSI_Themes; //VCL
19424: 854 unit uPSI_StdStyleActnCtrls; //VCL
19425: 855 unit uPSI_UDDIHelper; //VCL
19426: 856 unit uPSI_IdIMAP4Server; //Indy
19427: 857 uPSI_VariantSymbolTable; //VCL //3.9.9.92
19428: 858 uPSI_udf_glob; //mX4
19429: 859 uPSI_TabGrid; //VCL
19430: 860 uPSI_JsDBTreeView; //mX4
19431: 861 uPSI_JsSendMail; //mX4
19432: 862 uPSI_dbTvRecordList; //mX4
19433: 863 uPSI_TreeVwEx; //mX4
19434: 864 uPSI_ECDataLink; //mX4
19435: 865 uPSI_dbTree; //mX4
19436: 866 uPSI_dbTreeCBox; //mX4
19437: 867 unit uPSI_Debug; //TfrmDebug
19438: 868 uPSI_TimeFnct; //mX4
19439: 869 uPSI_FileIntf; //VCL
19440: 870 uPSI_SockTransport; //RTL
19441: 871 unit uPSI_WinInet; //RTL
19442: 872 unit uPSI_Wwstr; //mX4
19443: 873 uPSI_DBLookup; //VCL
19444: 874 uPSI_Hotspot; //mX4
19445: 875 uPSI_HList; //History List
19446: 876 unit uPSI_DrTable; //VCL
19447: 877 uPSI_TConnect; //VCL
19448: 978 uPSI_DataBkr; //VCL
19449: 979 uPSI_HTTPIntr; //VCL
19450: 980 unit uPSI_MatHbox; //mX4
19451:
19452:
19453:
19454:
19455: //////////////////////////////////////
19456: //Form Template Library FTL
19457: //////////////////////////////////////
19458:
19459: 26 FTL For Form Building out of the Script, eg. 399_form_templates.txt
19460:
19461: 045 unit uPSI_VListView TFormListView;
19462: 263 unit uPSI_JvProfiler32; TProfReport
19463: 270 unit uPSI_ImgList; TCustomImageList
19464: 278 unit uPSI_JvImageWindow; TJvImageWindow
19465: 317 unit uPSI_JvParserForm; TJvHTMLParserForm
19466: 497 unit uPSI_DebugBox; TDebugBox
19467: 513 unit uPSI_ImageWin; TImageForm, TImageForm2
19468: 514 unit uPSI_CustomDrawTreeView; TCustomDrawForm
19469: 515 unit uPSI_GraphWin; TGraphWinForm
19470: 516 unit uPSI_actionMain; TActionForm
19471: 518 unit uPSI_CtlPanel; TAppletApplication
19472: 529 unit uPSI_MDIEdit; TEditForm
19473: 535 unit uPSI_CoolMain; {browser} TWebMainForm
19474: 538 unit uPSI_frmExportMain; TSynexportForm
19475: 585 unit uPSI_usniffer; {PortScanForm} TSniffForm
19476: 600 unit uPSI_ThreadForm; TThreadSortForm;
19477: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm
19478: 620 unit uPSI_fplotMain; TfplotForm1
19479: 660 unit uPSI_JvDBQueryParamsForm; TJvQueryParamsDialog
19480: 677 unit uPSI_OptionsFrm; TfrmOptions;
19481: 718 unit uPSI_MonForm; TMonitorForm
19482: 742 unit uPSI_SimplePortMain; TPortForm1
19483: 770 unit uPSI_ovccalc; TOvcCalculator //widget
19484: 810 unit uPSI_DbExcept; TDbEngineErrorDlg
19485: 812 unit uPSI_GL_actorUnit1; TglActorForm1 //OpenGL Robot
19486: 846 unit uPSI_synhttp_daemon; TTCPhHttpThrd, TPingThread
19487: 867 unit uPSI_Debug; TfrmDebug

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19488:
19489:
19490: ex.:with TEditForm.create(self) do begin
19491:   caption:= 'Template Form Tester';
19492:   FormStyle:= fsStayOnTop;
19493:   with editor do begin
19494:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf
19495:     SelStart:= 0;
19496:     Modified:= False;
19497:   end;
19498: end;
19499: with TWebMainForm.create(self) do begin
19500:   URLs.Text:= 'http://www.kleiner.ch';
19501:   URLsClick(self); Show;
19502: end;
19503: with TSynexportForm.create(self) do begin
19504:   Caption:= 'Synexport HTML RTF tester';
19505:   Show;
19506: end;
19507: with TThreadSortForm.create(self) do begin
19508:   showmodal; free;
19509: end;
19510:
19511: with TCustomDrawForm.create(self) do begin
19512:   width:=820; height:=820;
19513:   imagel.height:= 600; //add properties
19514:   imagel.picture.bitmap:= image2.picture.bitmap;
19515:   //SelectionBackground1Click(self) CustomDraw1Click(self);
19516:   Background1.click;
19517:   bitmap1.click;
19518:   Tile1.click;
19519:   Showmodal;
19520:   Free;
19521: end;
19522:
19523: with TfplotForm1.Create(self) do begin
19524:   BtnPlotClick(self);
19525:   Showmodal; Free;
19526: end;
19527:
19528: with TOvcCalculator.create(self) do begin
19529:   parent:= aForm;
19530:   //free;
19531:   setbounds(550,510,200,150);
19532:   displaystr:= 'maXcalc';
19533: end;
19534:
19535:
19536:
19537: //////////////////////////////////////
19538: All maXbox Tutorials Table of Content 2014
19539: //////////////////////////////////////
19540: Tutorial 00 Function-Coding (Blix the Programmer)
19541: Tutorial 01 Procedural-Coding
19542: Tutorial 02 OO-Programming
19543: Tutorial 03 Modular Coding
19544: Tutorial 04 UML Use Case Coding
19545: Tutorial 05 Internet Coding
19546: Tutorial 06 Network Coding
19547: Tutorial 07 Game Graphics Coding
19548: Tutorial 08 Operating System Coding
19549: Tutorial 09 Database Coding
19550: Tutorial 10 Statistic Coding
19551: Tutorial 11 Forms Coding
19552: Tutorial 12 SQL DB Coding
19553: Tutorial 13 Crypto Coding
19554: Tutorial 14 Parallel Coding
19555: Tutorial 15 Serial RS232 Coding
19556: Tutorial 16 Event Driven Coding
19557: Tutorial 17 Web Server Coding
19558: Tutorial 18 Arduino System Coding
19559: Tutorial 18_3 RGB LED System Coding
19560: Tutorial 19 WinCOM /Arduino Coding
19561: Tutorial 20 Regular Expressions RegEx
19562: Tutorial 21 Android Coding (coming 2013)
19563: Tutorial 22 Services Programming
19564: Tutorial 23 Real Time Systems
19565: Tutorial 24 Clean Code
19566: Tutorial 25 maXbox Configuration I+II
19567: Tutorial 26 Socket Programming with TCP
19568: Tutorial 27 XML & TreeView
19569: Tutorial 28 DLL Coding (available)
19570: Tutorial 29 UML Scripting (coming 2014)
19571: Tutorial 30 Web of Things (coming 2014)
19572: Tutorial 31 Closures (coming 2014)
19573: Tutorial 32 SQL Firebird (coming 2014)
19574:
19575:
19576: ref Docu for all Type Class and Const in maXbox_types.pdf

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19577: using Docu for this file is maxbox_functions_all.pdf
19578: PEP - Pascal Education Program Lib Lab
19579:
19580: http://stackoverflow.com/tags/pascalscript/hot
19581: http://www.jrsoftware.org/ishelp/index.php?topic=scriptfunctions
19582: #locs:15162
19583: http://sourceforge.net/apps/mediawiki/maXbox
19584: http://www.blaisepascal.eu/
19585: https://github.com/maxkleiner/maXbox3.git
19586: http://www.heise.de/download/maxbox-1176464.html
19587: http://www.softpedia.com/get/Programming/Other-Programming-Files/maXbox.shtml
19588: https://www.facebook.com/pages/Programming-maXbox/166844836691703
19589:
19590: ---- bigbitbox code_cleared_checked----
```