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1: ****
2: Constructor Function and Procedure List of maxbox 3.9.9
3: ****
4:
5: //////////////////////////////////////////////////////////////////
6: ref Help Extraxt of EXE Functions of maxbox3.exe BigBitBox API HEX in BOX
7: -----
8:
9: File Size of EXE: 22041600 V3.9.9.96 July 2014 To EKON/BASTA/JAX/IBZ/SWS
10: *****Now the Funclist*****
11: Funclist Function : 12728 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 7881 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1276 //995 //
16: def head:max: maxBox7: 13.06.2014 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: 21885! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 21230
22: ASize of EXE: 22041600 (16586240) (13511680) (13023744)
23: SHA1 Hash of maxbox 3.9.9.96: 6DF0415E1645C98C2298DA0A3F613A016AD72EEE
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, OverlayImageIdx,
    Indent:Int;Data:Ptr ) : TComboExItem

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

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

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268: Function BooleanToInteger( const Pb : Boolean) : Integer
269: Function BoolToStr(B: Boolean; UseBoolStrs: Boolean): string
270: Function BoolToStrl(value : boolean) : string;
271: Function booltoint( aBool : Boolean) : LongInt
272: Function inttobool( aInt : LongInt) : Boolean
273: Function Bounds( ALeft, ATop, AWidth, AHeight : Integer) : TRect
274: function Bounds(ALeft, ATOP, AWidth, AHeight: Integer): TRect
275: Function BreakApart( BaseString, BreakString : string; StringList : TStrings) : TStrings
276: Function BrightColor( const Color : TColor; const Pct : Single) : TColor
277: Function BrightColorChannel( const Channel : Byte; const Pct : Single) : Byte
278: Function BufferRequest( Length : Integer) : TStream
279: Function BuildfileList( const Path : string; const Attr : Integer; const List : TStrings) : Boolean
280: Function Buttons : PTaskDialogButton
281: Function BytesPerScanline( PixelsPerScanline, BitsPerPixel, Alignment : Longint) : Longint
282: Function BytesToCardinal( const AValue : 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 CharIsEOF( const AString : string; ACharPos : Integer) : Boolean
327: Function CharIsInSet( const AString : string; const ACharPos : Integer; const ASet : String) : Boolean
328: Function CharLength( S : String; Index : Integer) : Integer
329: Function CharRange( const AMin, AMax : Char) : String
330: function CharsetToIdent(Charset: Longint; var Ident: string): Boolean)
331: Function CharToBin(vchr: Char): String;
332: Function CharNext(lpsz: PChar): PChar; stdcall;
333: Function CharToByteIndex( S : string; Index : Integer) : Integer
334: function CharToByteIndex(const S: string; Index: Integer): Integer
335: Function CharToByteLen( S : string; MaxLen : Integer) : Integer
336: function CharToByteLen(const S: string; MaxLen: Integer): Integer
337: Function CharToHex(const APrefix : String; const cc : Char) : shortstring;
338: function CharToHexStr(Value: char): string);
339: function CharToOem(ins, outs: PChar):boolean;
340: function CharToUniCode(Value: Char): string;
341: Function CheckMenuDropdown : Boolean
342: Function CheckMessages : longint
343: Function CheckBox: string;
344: Function CheckOpen( Status : DBIResult) : Boolean
345: Function CheckPassword( const APassword : String) : Boolean
346: Function CheckResponse(const AResponse:SmallInt;const AAllowedResponses:array of SmallInt): SmallInt
347: Function CheckCrc32( var X : array of Byte; N : Integer; Crc : Cardinal) : Integer;
348: function CheckSynchronize(Timeout: Integer): Boolean
349: Function CheckWin32Version( AMajor : Integer; AMinor : Integer) : Boolean
350: function ChrA(const a: byte): char;
351: Function ClassIDToProgID(const ClassID: TGUID): string;
352: Function ClassNameIs(const Name: string): Boolean
353: Function ClearBit( const Value : Byte; const Bit : TBitRange) : Byte;
354: Function ClearBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
355: Function ClearBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
356: Function ClearBit3( const Value : Word; const Bit : TBitRange) : Word;

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357: Function ClearBit4( const Value : Integer; const Bit : TBitRange) : Integer;
358: Function ClearBit5( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
359: Function ClearBit6( const Value : Int64; const Bit : TBitRange) : Int64;
360: function CLIENTTOSCREEN(POINT:TPOINT):TPOINT
361: Function Clipboard : TClipboard
362: Function ClipCodes( const X, Y, MinX, MinY, MaxX, MaxY : Float) : TClipCodes;
363: Function ClipCodes1( const X, Y : Float; const ClipRect : TRect) : TClipCodes;
364: Function ClipLine( var X1, Y1, X2, Y2 : Integer; const ClipRect : TRect) : Boolean;
365: Function ClipLineToRect( var P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean
366: Function Clone( out stm : IStream) : HResult
367: Function CloneConnection : TSQLConnection
368: Function CloneMemoryStream( Original : TMemoryStream) : TMemoryStream
369: function CLOSEQUERY:BOOLEAN
370: Function CloseVolume( var Volume : THandle) : Boolean
371: Function CloseHandle(Handle: Integer): Integer; stdcall;
372: Function CPLApplet( hwndCPL : THandle; uMsg : DWORD; lParam1, lParam2 : Longint) : Longint
373: Function CmdLine: PChar;
374: function CmdShow: Integer;
375: Function Color32( const R, G, B : Byte; const A : Byte) : TColor32;
376: Function Color32( WinColor : TColor) : TColor32;
377: Function Color32I( const Index : Byte; const Palette : TPalette32) : TColor32;
378: Function ColorAdjustLuma( clrRGB : TColor; n : Integer; fScale : Boolean) : TColor
379: Function ColorHLSToRGB( Hue, Luminance, Saturation : Word) : TColorRef
380: Function ColorToHTML( const Color : TColor) : String
381: function ColorToIdent(Color: Longint; var Ident: string): Boolean
382: Function ColorToRGB(color: TColor): Longint
383: function ColorToString(Color: TColor): string
384: Function ColorToWebColorName( Color : TColor) : string
385: Function ColorToWebColorStr( Color : TColor) : string
386: Function ColumnAtDepth( Col : TColumn; ADepth : Integer) : TColumn
387: Function Combination(npr, ncr: integer): extended;
388: Function CombinationInt(npr, ncr: integer): Int64;
389: Function CombineInfo( Bitmap : TCustomBitmap32) : TCombineInfo
390: Function CommaAdd( const AStr1, AStr2 : String) : string
391: Function CommercialRound( const X : Extended) : Int64
392: Function Commit( grfCommitFlags : Longint) : HResult
393: Function Compare( const NameExt : string) : Boolean
394: function CompareDate(const A, B: TDateTime): TValueRelationship;
395: Function CompareDateTime( const ADateTime1, ADateTime2 : TDateTime) : Integer
396: Function CompareFiles(const FN1, FN2 : string; Breathe:TNotifyEvent;BreathingSender:TObject) : boolean
397: Function CompareMemoryStreams( S1, S2 : TMemoryStream) : boolean
398: Function CompareStr( S1, S2 : string) : Integer
399: function CompareStr(const S1: string; const S2: string): Integer
400: function CompareString(const S1: string; const S2: string): Integer
401: Function CompareText( S1, S2 : string) : Integer
402: function CompareText(const S1: string; const S2: string): Integer
403: Function CompareTextLike(cWildStr,cStr:string;const cWildChar:char;lCaseSensitive:boolean): boolean
404: function CompareTime( const A, B: TDateTime): TValueRelationship;
405: Function CompatibleConversionType( const AType : TConvType; const AFamily : TConvFamily) : Boolean
406: Function CompatibleConversionTypes( const AFrom, ATo : TConvType) : Boolean
407: Function ComponentTypeToString( const ComponentType : DWORD) : string
408: Function CompToCurrency( Value : Comp) : Currency
409: Function Comp.ToDouble( Value : Comp) : Double
410: function ComputeFileCRC32(const FileName : String) : Integer;
411: function ComputeSHA256(astr: string; amode: char): string //mode F:File, S:String
412: function ComputeSHA512(astr: string; amode: char): string //mode F:File, S:String
413: Function Concat(s: string): string
414: Function ConnectAndGetAll : string
415: Function Connected : Boolean
416: function constrain(x, a, b: integer): integer;
417: Function ConstraintCallBack( Req : DsInfoReq; var ADataSources : DataSources) : DBIResult
418: Function ConstraintsDisabled : Boolean
419: function CONTAINSCONTROL(CONTROL:TCONTROL):BOOLEAN
420: Function ContainsState( oState : ThiRegularExpressionState) : boolean
421: Function ContainsStr( const AText, ASubText : string) : Boolean
422: Function ContainsText( const AText, ASubText : string) : Boolean
423: Function ContainsTransition( oTransition : ThiRegularExpressionTransition) : boolean
424: Function Content : string
425: Function ContentFromStream( Stream : TStream) : string
426: Function ContentFromString( const S : string) : string
427: Function CONTROLSDISABLED : BOOLEAN
428: Function Convert( const AValue : Double; const AFrom, ATo : TConvType) : Double;
429: Function Convert1( const AValue : Double; const AFrom1, AFrom2, ATo1, ATo2 : TConvType) : Double;
430: Function ConvertFrom( const AFrom : TConvType; const AValue : Double) : Double
431: Function ConvertReadStream( Stream : TStream; Buffer : PChar; BufSize : Integer) : Integer
432: Function ConvertTo( const AValue : Double; const ATo : TConvType) : Double
433: Function ConvertWriteStream( Stream : TStream; Buffer : PChar; Bufsize : Integer) : Integer
434: Function ConvFamilyToDescription( const AFamily : TConvFamily) : string
435: Function ConvTypeToDescription( const AType : TConvType) : string
436: Function ConvtypeToFamily( const AFrom, ATo : TConvType) : TConvFamily;
437: Function ConvTypeToFamily( const AType : TConvType) : TConvFamily;
438: Function ConvAdd(const AVal:Double;const AType1:TConvType;const AVal2:Double;const AType2,
AResultType:TConvType): Double
439: Function ConvCompareValue(const AValue1:Double;const AType1:TConvType;const AValue2:Double;const
AType2:TConvType): TValueRelationship
440: Function ConvDec( const AValue : Double; const AType, AAmountType : TConvType) : Double;
441: Function ConvDecl(const AValue:Double; const AType: TConvType;const AAmount:Double;const
AAmountType:TConvType):Double;
442: Function ConvDiff(const AVal1:Double;const AType1:TConvType;const AVal2:Double;const AType2,
AResuType:TConvType):Double

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

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

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613: Function DelChar( const pStr : string; const pChar : Char ) : string
614: Function DelEnvironmentVar( const Name : string ) : Boolean
615: Function Delete( const MsgNum : Integer ) : Boolean
616: Function DeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
617: Function DeleteFile( const FileName : string ) : boolean
618: Function DeleteFileEx( FileName : string; Flags : FILEOP_FLAGS ) : Boolean
619: Function DelimiterPosn( const sString : string; const sDelimiters: string): integer;
620: Function DelimiterPosnl(const sString:string;const sDelimiters:string;out cDelimiter: char) : integer;
621: Function DelSpace( const pStr : string ) : string
622: Function DelString( const pStr, pDelStr : string ) : string
623: Function DelTree( const Path : string ) : Boolean
624: Function Depth : Integer
625: Function Description : string
626: Function DescriptionsAvailable : Boolean
627: Function DescriptionToConvFamily( const ADescription : string; out AFamily : TConvFamily ) : Boolean
628: Function DescriptionToConvType( const ADescription : string; out AType : TConvType ) : Boolean;
629: Function DescriptionToConvTypel(const AFamil:TConvFamily;const ADescr:string;out AType:TConvType):Boolean;
630: Function DetectUTF8Encoding( const s : UTF8String ) : TEcodeType
631: Function DialogsTopixelsX( const Dialogs : Word ) : Word
632: Function DialogsTopixelsY( const Dialogs : Word ) : Word
633: Function Digits( const X : Cardinal ) : Integer
634: Function DirectoryExists( const Name : string ) : Boolean
635: Function DirectoryExists( Directory : string ) : Boolean
636: Function DiskFree( Drive : Byte ) : Int64
637: function DiskFree(Drive: Byte): Int64)
638: Function DiskInDrive( Drive : Char ) : Boolean
639: Function DiskSize( Drive : Byte ) : Int64
640: function DiskSize(Drive: Byte): Int64)
641: Function DISPATCHCOMMAND( ACOMMAND : WORD ) : BOOLEAN
642: Function DispatchEnabled : Boolean
643: Function DispatchMask : TMask
644: Function DispatchMethodType : TMethodType
645: Function DISPATCHPOPUP( AHANDLE : HMENU ) : BOOLEAN
646: Function DispatchRequest( Sender : TObject; Request : TWebRequest; Response : TWebResponse ) : Boolean
647: Function DisplayCase( const S : String ) : String
648: Function DisplayRect( Code : TDisplayCode ) : TRect
649: Function DisplayRect( TextOnly : Boolean ) : TRect
650: Function DisplayStream( Stream : TStream ) : string
651: TBufferCoord', 'record Char : integer; Line : integer; end
652: TDisplayCoord', 'record Column : integer; Row : integer; end
653: Function DisplayCoord( AColumn, ARow : Integer ) : TDisplayCoord
654: Function BufferCoord( AChar, ALine : Integer ) : TBufferCoord
655: Function DomainName( const AHost : String ) : String
656: Function DosPathToUnixPath( const Path : string ) : string
657: Function DottedLineTo( const Canvas : TCanvas; const X, Y : Integer ) : Boolean;
658: Function DoubleDecliningBalance( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
659: Function DoubleToBcd( const AValue : Double ) : TBcd;
660: Function DoubleToHex( const D : Double ) : string
661: Function DoUpdates : Boolean
662: function Dragging: Boolean;
663: Function DrawCaption( pl : HWND; p2 : HDC; const p3 : TRect; p4 : UInt ) : BOOL
664: Function DrawAnimatedRects( hwnd : HWND; idAni : Integer; const lprcFrom, lprcTo : TRect ) : BOOL
665: Function DrawEdge( hdc : HDC; var qrc : TRect; edge : UInt; grfFlags : UInt ) : BOOL
666: Function DrawFrameControl( DC : HDC; const Rect : TRect; uType, uState : UInt ) : BOOL
667: {Works like InputQuery but displays 2 edits. If PasswordChar <> #0, the second edit's PasswordChar is set}
668: Function DualInputQuery(const ACapt,Prpt1,Prpt2:string;var AVall,AVal2:string;PasswrDChar:Char= #0):Bool;
669: Function DupeString( const AText : string; ACount : Integer ) : string
670: Function Edit : Boolean
671: Function EditCaption : Boolean
672: Function EditText : Boolean
673: Function EditFolderList( Folders : TStrings ) : Boolean
674: Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
675: Function Elapsed( const Update : Boolean ) : Cardinal
676: Function EnableProcessPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
677: Function EnableThreadPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
678: Function EncodeDate( Year, Month, Day : Word ) : TDateTime
679: function EncodeDate(Year, Month, Day: Word): TDateTime;
680: Function EncodeDateDay( const AYear, ADayOfYear : Word ) : TDateTime
681: Function EncodeDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : TDateTime
682: Function EncodeDateTime( const AYear, AMonth, ADay, AHour, AMinute, ASecond, AMilliSecond: Word): TDateTime
683: Function EncodeDateWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
684: Function EncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word ) : TDateTime
685: Function EncodeString( s : string ) : string
686: Function DecodeString( s : string ) : string
687: Function EncodeTime( Hour, Min, Sec, MSec : Word ) : TDateTime
688: function EncodeTime(Hour, Min, Sec, MSec: Word): TDateTime;
689: Function EndIP : String
690: Function EndOfDay( const AYear, AMonth, ADay : Word ) : TDateTime;
691: Function EndOfDay1( const AYear, ADayOfYear : Word ) : TDateTime;
692: Function EndOfAMonth( const AYear, AMonth : Word ) : TDateTime
693: Function EndOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
694: Function EndOfAYear( const AYear : Word ) : TDateTime
695: Function EndOfTheDay( const AValue : TDateTime ) : TDateTime
696: Function EndOfTheMonth( const AValue : TDateTime ) : TDateTime
697: Function EndOfTheWeek( const AValue : TDateTime ) : TDateTime
698: Function EndOfTheYear( const AValue : TDateTime ) : TDateTime
699: Function EndPeriod( const Period : Cardinal ) : Boolean
700: Function EndsStr( const ASubText, AText : string ) : Boolean
701: Function EndsText( const ASubText, AText : string ) : Boolean

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

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

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

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963: Function FormatValue( AValue : Cardinal ) : string
964: Function FormatVersionString( const HiV, LoV : Word ) : string;
965: Function FormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
966: function Frac(X: Extended): Extended;
967: Function FreeResource( ResData : HGLOBAL ) : LongBool
968: Function FromCommon( const AValue : Double ) : Double
969: function FromCommon(const AValue: Double): Double;
970: Function FTPGMTDateToMLS( const ATimestamp : TDateTime; const AIIncludeMSecs : Boolean ) : String
971: Function FTPLocalDateToMLS( const ATimestamp : TDateTime; const AIIncludeMSecs : Boolean ) : String
972: Function FTPMLSToGMTDateTime( const ATimestamp : String ) : TDateTime
973: Function FTPMLSToLocalDateTime( const ATimestamp : String ) : TDateTime
974: Function FuncIn(AValue: Variant; ASet: Variant): Boolean;
975: //Function FuncIn Size is: 6444 of mX3.9.8.9
976: Function FutureValue(const Rate:Extended;NPeriods:Integer;const Payment,PresentValue:Extended;PaymentTime:TPaymentTime):Extended
977: Function Gauss( const x, Spread : Double ) : Double
978: function Gauss(const x,Spread: Double): Double;
979: Function GCD(x, y : LongInt) : LongInt;
980: Function GCDJ( X, Y : Cardinal ) : Cardinal
981: Function GDAL: LongWord
982: Function GdiFlush : BOOL
983: Function GdiSetBatchLimit( Limit : DWORD ) : DWORD
984: Function GdiGetBatchLimit : DWORD
985: Function GenerateHeader : TIdHeaderList
986: Function GeometricMean( const X : TDynFloatArray ) : Float
987: Function Get( AURL : string ) : string;
988: Function Get2( AURL : string ) : string;
989: Function Get8087CW : Word
990: function GetActiveOleObject(const ClassName: String): IDispatch;
991: Function GetAliasDriverName( const AliasName : string ) : string
992: Function GetAPMBatteryFlag : TAPMBatteryFlag
993: Function GetAPMBatteryFullLifeTime : DWORD
994: Function GetAPMBatteryLifePercent : Integer
995: Function GetAPMBatteryLifeTime : DWORD
996: Function GetAPMLineStatus : TAPMLineStatus
997: Function GetAppdataFolder : string
998: Function GetAppDispatcher : TComponent
999: function GetArrayLength: integer;
1000: Function GetASCII: string;
1001: Function GetASCIILine: string;
1002: Function GetAsHandle( Format : Word ) : THandle
1003: function GetAssociatedProgram(const Extension: string; var Filename, Description: string): boolean;
1004: Function GetBackupfileName( const FileName : string ) : string
1005: Function GetBBitmap( Value : TBitmap ) : TBitmap
1006: Function GetBIOSCopyright : string
1007: Function GetBIOSDate : TDateTime
1008: Function GetBIOSExtendedInfo : string
1009: Function GetBIOSName : string
1010: Function getBitmap(apath: string): TBitmap;
1011: Function GetBitmap( Index : Integer; Image : TBitmap ) : Boolean //object
1012: Function getBitMapObject(const bitmappath: string): TBitmap;
1013: Function GetButtonState( Button : TPageScrollerButton ) : TPageScrollerButtonState
1014: Function GetCapsLockKeyState : Boolean
1015: function GetCaptureControl: TControl;
1016: Function GetCDAudioTrackList( var TrackList : TJclCdTrackInfoArray; Drive : Char ) : TJclCdTrackInfo;
1017: Function GetCDAudioTrackList1( TrackList : TStrings; IncludeTrackType : Boolean; Drive : Char ) : string;
1018: Function GetCdInfo( InfoType : TJclCdMediaInfo; Drive : Char ) : string
1019: Function GetChangedText( const Text : string; SelStart, SelLength : Integer; Key : Char ) : string
1020: Function GetClientThread( ClientSocket : TServerClientWinSocket ) : TServerClientThread
1021: Function GetClockValue : Int64
1022: function getCmdLine: PChar;
1023: function getCmdShow: Integer;
1024: function GetCPUSpeed: Double;
1025: Function GetColField( DataCol : Integer ) : TField
1026: Function GetColorBlue( const Color : TColor ) : Byte
1027: Function GetColorFlag( const Color : TColor ) : Byte
1028: Function GetColorGreen( const Color : TColor ) : Byte
1029: Function GetColorRed( const Color : TColor ) : Byte
1030: Function GetComCtlVersion : Integer
1031: Function GetComPorts: TStringlist;
1032: Function GetCommonAppdataFolder : string
1033: Function GetCommonDesktopdirectoryFolder : string
1034: Function GetCommonFavoritesFolder : string
1035: Function GetCommonFilesFolder : string
1036: Function GetCommonProgramsFolder : string
1037: Function GetCommonStartmenuFolder : string
1038: Function GetCommonStartupFolder : string
1039: Function GetComponent( Owner, Parent : TComponent ) : TComponent
1040: Function GetConnectionRegistryFile( DesignMode : Boolean ) : string
1041: Function GetCookiesFolder : string
1042: Function GetCPUSpeed( var CpuSpeed : TFreqInfo ) : Boolean
1043: Function GetCurrent : TFavoriteLinkItem
1044: Function GetCurrent : TListItem
1045: Function GetCurrent : TTaskDialogBaseButtonItem
1046: Function GetCurrent : TToolButton
1047: Function GetCurrent : TTreenode
1048: Function GetCurrent : WideString
1049: Function GetCurrentDir : string
1050: function GetCurrentDir: string)

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1051: Function GetCurrentFolder : string
1052: Function GETCURRENTRECORD( BUFFER : PCHAR ) : BOOLEAN
1053: Function GetCurrentProcessId : TIdPID
1054: Function GetCurrentThreadHandle : THandle
1055: Function GetCurrentThreadID: LongWord; stdcall;
1056: Function GetCustomHeader( const Name : string ) : String
1057: Function GetDataItem( Value : Pointer ) : Longint
1058: Function GetDataLinkFiles( FileNames : TWideStrings; Directory : string ) : Integer;
1059: Function GetDataLinkFiles1( FileNames : TStrings; Directory : string ) : Integer;
1060: Function GETDATASIZE : INTEGER
1061: Function GetDC(hdwnd: HWND): HDC;
1062: Function GetDefaultFileExt( const MIMEType : string ) : string
1063: Function GetDefaults : Boolean
1064: Function GetDefaultSchemaName : WideString
1065: Function GetDefaultStreamLoader : IStreamLoader
1066: Function GetDesktopDirectoryFolder : string
1067: Function GetDesktopFolder : string
1068: Function GetDFAState( oStates : TList ) : TniRegularExpressionState
1069: Function GetDirectorySize( const Path : string ) : Int64
1070: Function GetDisplayWidth : Integer
1071: Function GetDLLVersion( const DLLName : string; var pdwMajor, pdwMinor : Integer ) : Boolean
1072: Function GetDomainName : string
1073: Function GetDriverRegistryFile( DesignMode : Boolean ) : string
1074: function GetDriveType(rootpath: pchar): cardinal;
1075: Function GetDriveTypeStr( const Drive : Char ) : string
1076: Function GetEnumerator : TFavoriteLinkItemsEnumerator
1077: Function GetEnumerator : TListItemsEnumerator
1078: Function GetEnumerator : TTaskDialogButtonsEnumerator
1079: Function GetEnumerator : TToolBarEnumerator
1080: Function GetEnumerator : TTreeNodesEnumerator
1081: Function GetEnumerator : TWideStringsEnumerator
1082: Function GetEnvVar( const VarName : string ) : string
1083: Function GetEnvironmentVar( const AVariableName : string ) : string
1084: Function GetEnvironmentVariable( const VarName : string ) : string
1085: Function GetEnvironmentVar( const Name : string; var Value : string; Expand : Boolean ) : Boolean
1086: Function GetEnvironmentVars( const Vars : TStrings; Expand : Boolean ) : Boolean
1087: Function getEnvironmentString: string;
1088: Function GetExceptionHandler : TObject
1089: Function GetFavoritesFolder : string
1090: Function GetFieldByName( const Name : string ) : string
1091: Function GetFieldInfo( const Origin : Widestring; var FieldInfo : TFieldInfo ) : Boolean
1092: Function GetFieldValue( ACol : Integer ) : string
1093: Function GetFileAgeCoherence( const FileName : string ) : Boolean
1094: Function GetFileCreation( const FileName : string ) : TFileTime
1095: Function GetFileCreationTime( const Filename : string ) : TDateTime
1096: Function GetFileInfo( const FileName : string ) : TSearchRec
1097: Function GetFileLastAccess( const FileName : string ) : TFileTime
1098: Function GetFileLastWrite( const FileName : string ) : TFileTime
1099: Function GetFileList(FileList: TStringlist; apath: string): TStringlist;
1100: Function GetFileList1(apath: string): TStringlist;
1101: Function GetFileMIMEType( const AFileName : string ) : string
1102: Function GetFileSize( const FileName : string ) : Int64
1103: Function GetFileVersion( AFileName : string ) : Cardinal
1104: Function GetFileVersion( const AFilename : string ) : Cardinal
1105: Function GetFileSize2(Handle: Integer; x: Integer): Integer; stdcall;
1106: Function GetFileDate(aFile:string; aWithTime:Boolean):string;
1107: Function GetFilterData( Root : PExprNode ) : TExprData
1108: Function getChild : LongInt
1109: Function getChild : TTreeNode
1110: Function GetFirstDelimitedToken( const cDelim : char; const cStr : string ) : string
1111: Function GetFirstNode : TTreeNode
1112: Function GetFontsFolder : string
1113: Function GetFormulaValue( const Formula : string ) : Extended
1114: Function GetFreePageFileMemory : Integer
1115: Function GetFreePhysicalMemory : Integer
1116: Function GetFreeSystemResources( const ResourceType : TFreeSysResKind ) : Integer;
1117: Function GetFreeSystemResources1 : TFreeSystemResources;
1118: Function GetFreeVirtualMemory : Integer
1119: Function GetFromClipboard : Boolean
1120: Function GetFullURI( const AOptionalFields : TIdURIOptionalFieldsSet ) : string
1121: Function GetGBitmap( Value : TBitmap ) : TBitmap
1122: Function GetGMTDateByName( const AFileName : TIdFileName ) : TDateTime
1123: Function GetGroupState( Level : Integer ) : TGroupPosInds
1124: Function GetHandle : HWND
1125: Function GETHELPCONTEXT( VALUE : INTEGER; BYCOMMAND : BOOLEAN ) : THELPCONTEXT
1126: function GetHexArray(ahexdig: THexArray): THexArray;
1127: Function GetHighLightColor( const Color : TColor; Luminance : Integer ) : TColor
1128: function GetHINSTANCE: longword;
1129: Function GetHistoryFolder : string
1130: Function GetHitTestInfoAt( X, Y : Integer ) : THitTests
1131: function getHMODULE: longword;
1132: Function GetHostName(const AComputerName: String): String;
1133: Function GetHostName : string
1134: Function getHostIP: string;
1135: Function GetHotSpot : TPoint
1136: Function GetHueBitmap( Value : TBitmap ) : TBitmap
1137: Function GetImageBitmap : HBITMAP
1138: Function GETIMAGELIST : TCUSTOMIMAGELIST
1139: Function GetIncome( const aNetto : Currency ) : Currency

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1140: Function GetIncome( const aNetto : Extended ) : Extended
1141: Function GetIncome( const aNetto : Extended ) : Extended
1142: Function GetIncome( const aNetto : Extended ) : Extended
1143: function GetIncome( const aNetto : Currency ) : Currency
1144: Function GetIncome2( const aNetto : Currency ) : Currency
1145: Function GetIncome2( const aNetto : Currency ) : Currency
1146: Function getIndex_Attrs( tag : string; var idx : Integer; var Attrs : string ) : string
1147: Function GETINDEXFORFIELDS( const FIELDS : String; CASEINSENSITIVE : Boolean ) : TIndexDef
1148: Function GetIndexForOrderBy( const SQL : WideString; DataSet : TDataSet ) : TIndexDef
1149: Function GetInstRes( Instance:THandle;ResType:TResType;const
Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor ):Boolean;
1150: Function
GetInstRes1( Instance:THandle;ResType:TResType;ResID:DWORD;Width:Integer;LoadFlags:TLoadResources;MaskColor:
TColor ):Boolean;
1151: Function GetIntelCacheDescription( const D : Byte ) : string
1152: Function GetInteractiveUserName : string
1153: Function GetInternetCacheFolder : string
1154: Function GetInternetFormattedFileTimeStamp( const AFilename : String ) : String
1155: Function GetIPAddress( const HostName : string ) : string
1156: Function GetIP( const HostName : string ) : string
1157: Function GetIPHostName( const AComputerName: String ) : String;
1158: Function GetIsAdmin: Boolean;
1159: Function GetItem( X, Y : Integer ) : LongInt
1160: Function GetItemAt( X, Y : Integer ) : TListItem
1161: Function GetItemHeight( Font : TFont ) : Integer;
1162: Function GetItemPath( Index : Integer ) : string
1163: Function GetKeyFieldNames( List : TStrings ) : Integer;
1164: Function GetKeyFieldNames1( List : TWideStrings ) : Integer;
1165: Function GetKeyState( const VirtualKey : Cardinal ) : Boolean
1166: Function GetLastChild : LongInt
1167: Function GetLastChild : TTreeNode
1168: Function GetLastDelimitedToken( const cDelim : char; const cStr : string ) : string
1169: function GetLastError: Integer
1170: Function GetLAT_CONV_FACTOR: double; //for WGS84 power(1 - 1 / 298.257223563, 2);
1171: Function GetLoader( Ext : string ) : TBitmapLoader
1172: Function GetLoadFilter : string
1173: Function GetLocalComputerName : string
1174: Function GetLocaleChar( Locale, LocaleType : Integer; Default : Char ) : Char
1175: Function GetLocaleStr( Locale, LocaleType : Integer; Default : string ) : string
1176: Function GetLocalUserName : string
1177: Function GetLoginUsername : WideString
1178: function getLongDayNames: string)
1179: Function GetLongHint( const hint: string): string
1180: function getLongMonthNames: string)
1181: Function GetMacAddresses( const Machine : string; const Addresses : TStrings ) : Integer
1182: Function GetMainAppWndFromPid( PID : DWORD ) : HWND
1183: Function GetMaskBitmap : HBITMAP
1184: Function GetMaxAppAddress : Integer
1185: Function GetMciErrorMessage( const MciErrNo : MCIERROR ) : string
1186: Function GetMemoryLoad : Byte
1187: Function GetMIMEDefaultFileExt( const MIMEType : string ) : TIdFileName
1188: Function GetMIMETypeFromFile( const AFile : string ) : string
1189: Function GetMIMETypeFromFile( const AFile : TIdFileName ) : string
1190: Function GetMinAppAddress : Integer
1191: Function GetModule : TComponent
1192: Function GetModuleHandle( ModuleName : PChar ) : HMODULE
1193: Function GetModuleName( Module : HMODULE ) : string
1194: Function GetModulePath( const Module : HMODULE ) : string
1195: Function GetModuleFileName( Module: Integer; Filename: PChar; Size: Integer ): Integer; stdcall;
1196: Function GetCommandLine: PChar; stdcall;
1197: Function GetMonochromeBitmap( Value : TBitmap ) : TBitmap
1198: Function GetMultiN(aval: integer): string;
1199: Function GetName : string
1200: Function GetNearestItem( Point : TPoint; Direction : TSearchDirection ) : TListItem
1201: Function GetNethoodFolder : string
1202: Function GetNext : TTreeNode
1203: Function GetNextChild( Value : LongInt ) : LongInt
1204: Function GetNextChild( Value : TTreeNode ) : TTreeNode
1205: Function GetNextDelimitedToken( const cDelim : char; var cStr : String ) : String
1206: Function GetNextItem( StartItem: TListItem;Direction:TSearchDirection;States:TItemStates ) : TListItem
1207: Function GetNextPacket : Integer
1208: Function getNextSibling : TTreeNode
1209: Function GetNextVisible : TTreeNode
1210: Function GetNode( ItemId : HTreeItem ) : TTreeNode
1211: Function GetNodeAt( X, Y : Integer ) : TTreeNode
1212: Function GetNodeDisplayWidth( Node : TOutlineNode ) : Integer
1213: function GetNumberOfProcessors: longint;
1214: Function GetNumLockKeyState : Boolean
1215: Function GetObjectProperty( Instance : TPersistent; const PropName : string ) : TObject
1216: Function GetOnlyTransitionOn( cChar : char ) : TniRegularExpressionState
1217: Function GetOptionalParam( const ParamName : string ) : OleVariant
1218: Function GetOSName: string;
1219: Function GetOSVersion: string;
1220: Function GetOSNumber: string;
1221: Function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
1222: Function GetPackageModuleHandle( PackageName : PChar ) : HMODULE
1223: function GetPageSize: Cardinal;
1224: Function GetParameterFileName : string
1225: Function GetParams( var OwnerData : OleVariant ) : OleVariant

```

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1226: Function GETPARENTCOMPONENT : TCOMPONENT
1227: Function GetParentForm(control: TControl): TForm
1228: Function GETPARENTMENU : TMENU
1229: Function GetPassword : Boolean
1230: Function GetPassword : string
1231: Function GetPersonalFolder : string
1232: Function GetPidFromProcessName( const ProcessName : string ) : DWORD
1233: Function GetPosition : TPoint
1234: Function GetPrev : TTreeNode
1235: Function GetPrevChild( Value : LongInt ) : LongInt
1236: Function GetPrevChild( Value : TTreeNode ) : TTreeNode
1237: Function getPrevSibling : TTreeNode
1238: Function GetPrevVisible : TTreeNode
1239: Function GetPrinthoodFolder : string
1240: Function GetPrivilegeDisplayName( const PrivilegeName : string ) : string
1241: Function getProcessList: TString;
1242: Function GetProcessId : TIdPID
1243: Function GetProcessNameFromPid( PID : DWORD ) : string
1244: Function GetProcessNameFromWnd( Wnd : HWND ) : string
1245: Function GetProcessMemoryInfo(Process: THandle; ppsmemCounters: TProcessMemoryCounters; cb: DWORD):BOOL
1246: Function getProcessAllMemory(ProcessID : DWORD): TProcessMemoryCounters;
1247: Function getProcessMemoryInfo2(ProcessID : DWORD): TProcessMemoryCounters;
1248: Function GetProgramFilesFolder : string
1249: Function GetProgramsFolder : string
1250: Function GetProxy : string
1251: Function GetQuoteChar : WideString
1252: Function GetQrCode4(Width,Height:Word; Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1253: Function GetQrCodeToFile(Width,Height:Word;Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1254: Function GetRate : Double
1255: Function getPerfTime: string;
1256: Function getRuntime: string;
1257: Function GetRBitmap( Value : TBitmap ) : TBitmap
1258: Function GetReadableName( const AName : string ) : string
1259: Function GetRecentDocs : TStringList
1260: Function GetRecentFolder : string
1261: Function GetRecords( Count : Integer; out RecsOut : Integer; Options : Integer ) : OleVariant;
1262: Function GetRecords1(Count:Integer; out RecsOut:Integer;Options:Integer;const CommandText:WideString;var Params, OwnerData : OleVariant) : OleVariant;
1263: Function GetRecordset( const CommandText : WideString; ConnectionString : WideString ) : _Recordset
1264: Function GetRegisteredCompany : string
1265: Function GetRegisteredOwner : string
1266: Function GetResource(ResType:TResType;const Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor:Boolean)
1267: Function GetResourceName( ObjStream : TStream; var AName : string ) : Boolean
1268: Function GetResponse( const AAallowedResponses : array of SmallInt ) : SmallInt;
1269: Function GetResponse1( const AAallowedResponse : SmallInt ) : SmallInt;
1270: Function GetRValue( rgb : DWORD ) : Byte
1271: Function GetGValue( rgb : DWORD ) : Byte
1272: Function GetBValue( rgb : DWORD ) : Byte
1273: Function GetCValue( cmyk : COLORREF ) : Byte
1274: Function GetMValue( cmyk : COLORREF ) : Byte
1275: Function GetYValue( cmyk : COLORREF ) : Byte
1276: Function GetKValue( cmyk : COLORREF ) : Byte
1277: Function CMYK( c, m, y, k : Byte ) : COLORREF
1278: Function GetOSName: string;
1279: Function GetProcAddress( hModule : HMODULE; lpProcName : LPCSTR ) : FARPROC
1280: Function GetProcAddress(Module : HMODULE; Proc : PChar): Dword
1281: Function GetSafeCallExceptionMsg : string
1282: Function GetSaturationBitmap( Value : TBitmap ) : TBitmap
1283: Function GetSaveFilter : string
1284: Function GetSaver( Ext : string ) : TBitmapLoader
1285: Function GetScrollLockKeyState : Boolean
1286: Function GetSearchString : string
1287: Function GetSelections( Alist : TList ) : TTreeNode
1288: function GETSELTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1289: Function GetSendToFolder : string
1290: Function GetServer : IAppServer
1291: Function GetServerList : OleVariant
1292: Function GetShadowColor( const Color : TColor; Luminance : Integer ) : TColor
1293: Function GetShellProcessHandle : THandle
1294: Function GetShellProcessName : string
1295: Function GetShellVersion : Cardinal
1296: function getShortDayNames: string)
1297: Function GetShortHint(const hint: string): string
1298: function getShortMonthNames: string)
1299: Function GetSizeOfFile( const FileName : string ) : Int64;
1300: Function GetSizeOfFile1( Handle : THandle ) : Int64;
1301: Function GetStdHandle(nStdHandle: Integer): Integer; stdcall;
1302: Function GetStartmenuFolder : string
1303: Function GetStartupFolder : string
1304: Function GetStringProperty( Instance : TPersistent; const PropName : string ) : WideString
1305: Function GetSuccessor( cChar: char ) : TniRegularExpressionState
1306: Function GetSwapFileSize : Integer
1307: Function GetSwapFileUsage : Integer
1308: Function GetSystemLocale : TIdCharSet
1309: Function GetSystemMetrics( nIndex : Integer ) : Integer
1310: Function GetSystemPathSH(Folder: Integer): TFilename ;

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1311: Function GetTableNameFromQuery( const SQL : Widestring ) : Widestring
1312: Function GetTableNameFromSQL( const SQL : WideString ) : WideString
1313: Function GetTableNameFromSQLEx( const SQL : WideString; IdOption : IDENTIFIEROption ) : WideString
1314: Function GetTasksList( const List : TStrings ) : Boolean
1315: Function getTeamViewerID: string;
1316: Function GetTemplatesFolder : string
1317: Function GetText : PwideChar
1318: function GetText: PChar
1319: Function GetTextBuf( Buffer : PChar; BufSize : Integer ) : Integer
1320: function GETTEXTBUF(BUFFER:PCCHAR;BUFSIZE:INTEGER):INTEGER
1321: Function GetTextItem( const Value : string ) : Longint
1322: function GETTEXTLEN:INTEGER
1323: Function GetThreadLocale: Longint; stdcall
1324: Function GetCurrentThreadID: LongWord; stdcall;
1325: Function GetTickCount : Cardinal
1326: Function GetTickDiff( const AOldTickCount, ANewTickCount : Cardinal ) : Cardinal
1327: Function GetTicketNr : longint
1328: Function GetTime : Cardinal
1329: Function GetTime : TDateTime
1330: Function GetTimeout : Integer
1331: Function GetTimeStr: String
1332: Function GetTimeString: String
1333: Function GetTodayFiles(startdir, amask: string): TStringlist;
1334: Function getTokenCounts : integer
1335: Function GetTotalPageFileMemory : Integer
1336: Function GetTotalPhysicalMemory : Integer
1337: Function GetTotalVirtualMemory : Integer
1338: Function GetUniqueFileName( const APrefix, AExt : String ) : String
1339: Function GetUseNowForDate : Boolean
1340: Function GetUserDomainName( const CurUser : string ) : string
1341: Function GetUserName : string
1342: Function GetUserName: string;
1343: Function GetUserObjectName( hUserObject : THandle ) : string
1344: Function GetValueBitmap( Value : TBitmap ) : TBitmap
1345: Function GetValueMSec : Cardinal
1346: Function GetValueStr : String
1347: Function GetVersion: int;
1348: Function GetVersionString(FileName: string): string;
1349: Function GetVisibleNode( Index : LongInt ) : TOutlineNode
1350: Function GetVolumeFileSystem( const Drive : string ) : string
1351: Function GetVolumeName( const Drive : string ) : string
1352: Function GetVolumeSerialNumber( const Drive : string ) : string
1353: Function GetWebAppServices : IWebAppServices
1354: Function GetWebRequestHandler : IWebRequestHandler
1355: Function GetWindowCaption( Wnd : HWND ) : string
1356: Function GetWindowDC(hdwnd: HWND): HDC;
1357: Function GetWindowIcon( Wnd : HWND; LargeIcon : Boolean ) : HICON
1358: Function GetWindowRect(hwnd: HWND; arect: TRect): Boolean
1359: Function GetWindowsComputerID : string
1360: function GetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
1361: Function GetWindowsFolder : string
1362: Function GetWindowsServicePackVersion : Integer
1363: Function GetWindowsServicePackVersionString : string
1364: Function GetWindowsSystemFolder : string
1365: Function GetWindowsTempFolder : string
1366: Function GetWindowsUserID : string
1367: Function GetWindowsVersion : TWindowsVersion
1368: Function GetWindowsVersionString : string
1369: Function GmtOffsetStrToDateTime( S : string ) : TDateTime
1370: Function GMTToLocalDateTime( S : string ) : TDateTime
1371: Function GotoKey : Boolean
1372: Function GradToCycle( const Grads : Extended ) : Extended
1373: Function GradToDeg( const Grads : Extended ) : Extended
1374: Function GradToDeg( const Value : Extended ) : Extended;
1375: Function GradToDegl( const Value : Double ) : Double;
1376: Function GradToDeg2( const Value : Single ) : Single;
1377: Function GradToRad( const Grads : Extended ) : Extended
1378: Function GradToRad( const Value : Extended ) : Extended;
1379: Function GradToRadl( const Value : Double ) : Double;
1380: Function GradToRad2( const Value : Single ) : Single;
1381: Function Gray32( const Intensity : Byte; const Alpha : Byte ) : TColor32
1382: Function GreenComponent( const Color32 : TColor32 ) : Integer
1383: function GUIDToString(const GUID: TGUID): string)
1384: Function HandleAllocated : Boolean
1385: function HandleAllocated: Boolean;
1386: Function HandleRequest : Boolean
1387: Function HandleRequest( Request : TWebRequest; Response : TWebResponse ) : Boolean
1388: Function HarmonicMean( const X : TDynFloatArray ) : Float
1389: Function HasAsParent( Value : TTreeNode ) : Boolean
1390: Function HASCHILDDEFS : BOOLEAN
1391: Function HasCurValues : Boolean
1392: Function HasExtendCharacter( const s : UTF8String ) : Boolean
1393: Function HasFormat( Format : Word ) : Boolean
1394: Function HashValue( AStream : TStream ) : T5x4LongWordRecord;
1395: Function HashValue(AStream : TStream) : T4x4LongWordRecord
1396: Function HashValue(AStream: TStream): LongWord
1397: Function HashValue(AStream: TStream): Word
1398: Function HashValue1( AStream : TStream; const ABeginPos, AEndPos : Int64 ) : T5x4LongWordRecord;
1399: Function HashValue1(AStream : TStream): T4x4LongWordRecord

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1400: Function HashValue128(const ASrc: string): T4x4LongWordRecord;
1401: Function HashValue128Stream(Astream: TStream): T4x4LongWordRecord;
1402: Function HashValue16( const ASrc : string ) : Word;
1403: Function HashValue16Stream( Astream : TStream ) : Word;
1404: Function HashValue32( const ASrc : string ) : LongWord;
1405: Function HashValue32Stream( Astream : TStream ) : LongWord;
1406: Function HasMergeConflicts : Boolean;
1407: Function hasMoreTokens : boolean;
1408: Function HASPARENT : BOOLEAN;
1409: function HasParent: Boolean;
1410: Function HasTransaction( Transaction : TDBXTransaction ) : Boolean;
1411: Function HasUTF8BOM( S : TStream ) : boolean;
1412: Function HasUTF8BOM1( S : AnsiString ) : boolean;
1413: Function Haversine( X : Float ) : Float;
1414: Function Head( s : string; const subs : string; var tail : string ) : string;
1415: function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN;
1416: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN;
1417: function HELPJUMP(JUMPID:STRING):BOOLEAN;
1418: Function HeronianMean( const a, b : Float ) : Float;
1419: function HexStrToStr(Value: string): string;
1420: function HexToBin(Text,Buffer:PChar;BufSize:Integer):Integer;
1421: function HexToBin2(HexNum: string): string;
1422: Function Hex.ToDouble( const Hex : string ) : Double;
1423: function HexToInt(hexnum: string): LongInt;
1424: function HexToStr(Value: string): string;
1425: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string;
1426: function Hi(vdat: word): byte;
1427: function HiByte(W: Word): Byte;
1428: function High: Int64;
1429: Function HighlightCell(DataCol,DataRow: Integer; const Value:string; AState:TGridDrawState): Boolean;
1430: function HINSTANCE: longword;
1431: function HiWord(l: DWORD): Word;
1432: function HMODULE: longword;
1433: Function HourOf( const AValue : TDateTime ) : Word;
1434: Function HourOfTheDay( const AValue : TDateTime ) : Word;
1435: Function HourOfTheMonth( const AValue : TDateTime ) : Word;
1436: Function HourOfTheWeek( const AValue : TDateTime ) : Word;
1437: Function HourOfTheYear( const AValue : TDateTime ) : Word;
1438: Function HoursBetween( const ANow, AThen : TDateTime ) : Int64;
1439: Function HourSpan( const ANow, AThen : TDateTime ) : Double;
1440: Function HLSLToRGB1( const H, S, L : Single ) : TColor32;
1441: Function HTMLDecode( const AStr : String ) : String;
1442: Function HTMLEncode( const AStr : String ) : String;
1443: Function HTMLEscape( const Str : string ) : string;
1444: Function HtmlTable( DataSet : TDataSet; DataSetHandler : TDSTableProducer; MaxRows : Integer ) : string;
1445: Function HTTPDecode( const AStr : String ) : string;
1446: Function HTTPEncode( const AStr : String ) : string;
1447: Function Hypot( const X, Y : Extended ) : Extended;
1448: Function IBMx( n1, n2 : Integer ) : Integer;
1449: Function IBMin( n1, n2 : Integer ) : Integer;
1450: Function IBRandomString( iLength : Integer ) : String;
1451: Function IBRandomInteger( iLow, iHigh : Integer ) : Integer;
1452: Function IBStripString( st : String; CharsToStrip : String ) : String;
1453: Function IBFormatIdentifier( Dialect : Integer; Value : String ) : String;
1454: Function IBFormatIdentifierValue( Dialect : Integer; Value : String ) : String;
1455: Function IBExtractIdentifier( Dialect : Integer; Value : String ) : String;
1456: Function IBQuoteIdentifier( Dialect : Integer; Value : String ) : String;
1457: Function IBAddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1458: Procedure IBDecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1459: Function RandomString( iLength : Integer ) : String';
1460: Function RandomInteger( iLow, iHigh : Integer ) : Integer';
1461: Function StripString( st : String; CharsToStrip : String ) : String';
1462: Function FormatIdentifier( Dialect : Integer; Value : String ) : String';
1463: Function FormatIdentifierValue( Dialect : Integer; Value : String ) : String';
1464: Function ExtractIdentifier( Dialect : Integer; Value : String ) : String';
1465: Function QuoteIdentifier( Dialect : Integer; Value : String ) : String';
1466: Function AddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1467: Procedure DecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1468: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLEToken): TSQLEToken;
1469: Function IconToBitmap( Ico : HICON ) : TBitmap;
1470: Function IconToBitmap2( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1471: Function IconToBitmap3( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1472: function IdentToCharset(const Ident: string; var Charset: Longint): Boolean;
1473: function IdentToColor(const Ident: string; var Color: Longint): Boolean;
1474: function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1475: Function IdGetDefaultCharSet : TIdCharSet;
1476: function IDispatchInvoke(Self:IDispatch;ProperSet:Boolean;const Name:String;Par:array of variant):variant;
1477: Function IdPorts2 : TStringList;
1478: Function IdToMib( const Id : string ) : string;
1479: Function IdSHA1Hash(apath: string): string;
1480: Function IdHashSHA1(apath: string): string;
1481: Function IfStr( const bCondition : boolean; const sTrue : string; const sFalse : string ) : string;
1482: Function IfThen( AValue : Boolean; const ATrue : string; AFalse : string ) : string;
1483: Function IfThenInt( AValue : Boolean; const ATrue : integer; AFALSE : integer ): integer';
1484: Function IfThenDouble( AValue : Boolean; const ATrue : double; AFALSE : double ): double';
1485: Function IfThenBool( AValue : Boolean; const ATrue : boolean; AFALSE : boolean ): boolean';
1486: Function iif1( ATest : Boolean; const ATrue : Integer; const AFALSE : Integer ) : Integer;
1487: Function iif2( ATest : Boolean; const ATrue : string; const AFALSE : string ) : string;
1488: Function iif3( ATest : Boolean; const ATrue : Boolean; const AFALSE : Boolean ) : Boolean;

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1489: function ImportTest(S1: string; s2: longint; s3: Byte; s4: word; var s5: string): string;
1490: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer ) : TDateTime
1491: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64 ) : TDateTime
1492: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1493: Function IncLimit( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1494: Function IncLimit( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1495: Function IncLimit( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1496: Function IncLimit( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1497: Function IncLimit( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1498: Function IncLimit( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1499: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1500: Function IncLimitClamp( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1501: Function IncLimitClamp( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1502: Function IncLimitClamp( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1503: Function IncLimitClamp( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1504: Function IncLimitClamp( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1505: Function IncLimitClamp( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1506: Function IncludeTrailingBackslash( S : string ) : string
1507: function IncludeTrailingBackslash( const S: string): string
1508: Function IncludeTrailingPathDelimiter( const APath : string ) : string
1509: Function IncludeTrailingPathDelimiter( S : string ) : string
1510: function IncludeTrailingPathDelimiter( const S: string): string
1511: Function IncludeTrailingSlash( const APath : string ) : string
1512: Function IncMillisecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64 ) : TDateTime
1513: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64 ) : TDateTime
1514: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer ) : TDateTime
1515: function IncMonth( const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime
1516: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64 ) : TDateTime
1517: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer ) : TDateTime
1518: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer ) : TDateTime
1519: Function IndexOf( AClass : TClass ) : Integer
1520: Function IndexOf( AComponent : TComponent ) : Integer
1521: Function IndexOf( AObject : TObject ) : Integer
1522: Function INDEXOF( const ANAME : String ) : INTEGER
1523: Function IndexOf( const DisplayName : string ) : Integer
1524: Function IndexOf( const Item : TBookmarkStr ) : Integer
1525: Function IndexOf( const S : WideString ) : Integer
1526: Function IndexOf( const View : TJclFileMapView ) : Integer
1527: Function INDEXOF( FIELD : TFIELD ) : INTEGER
1528: Function IndexOf( ID : LCID ) : Integer
1529: Function INDEXOF( ITEM : TMENUITEM ) : INTEGER
1530: Function IndexOf( Value : TListItem ) : Integer
1531: Function IndexOf( Value : TTreeNode ) : Integer
1532: function IndexOf( const S: string): Integer;
1533: Function IndexOfName( const Name : WideString ) : Integer
1534: function IndexOfName( Name: string): Integer;
1535: Function IndexOfObject( AObject : TObject ) : Integer
1536: function IndexOfObject( AObject:tObject):Integer
1537: Function IndexOfTabAt( X, Y : Integer ) : Integer
1538: Function IndexStr( const AText : string; const AValues : array of string ) : Integer
1539: Function IndexText( const AText : string; const AValues : array of string ) : Integer
1540: Function IndexOfInteger( AList : TStringList; Value : Variant ) : Integer
1541: Function IndexOfFloat( AList : TStringList; Value : Variant ) : Integer
1542: Function IndexOfDate( Alist : TStringList; Value : Variant ) : Integer
1543: Function IndexOfString( Alist : TStringList; Value : Variant ) : Integer
1544: Function IndyCompareStr( const A1 : string; const A2 : string ) : Integer
1545: Function IndyGetHostName : string
1546: Function IndyInterlockedDecrement( var I : Integer ) : Integer
1547: Function IndyInterlockedExchange( var A : Integer; B : Integer ) : Integer
1548: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer ) : Integer
1549: Function IndyInterlockedIncrement( var I : Integer ) : Integer
1550: Function IndyLowerCase( const A1 : string ) : string
1551: Function IndyStrToBool( const AString : String ) : Boolean
1552: Function IndyUpperCase( const A1 : string ) : string
1553: Function InitCommonControl( CC : Integer ) : Boolean
1554: Function InitTempPath : string
1555: Function InMainThread : boolean
1556: Function inOpArray( W : WideString; sets : array of WideChar ) : boolean
1557: Function Input : Text)
1558: Function InputBox( const ACaption, APrompt, ADefault : string ) : string
1559: function InputBox( const ACaption: string; const APrompt: string; const ADefault: string): string
1560: Function InputLn( const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1561: Function InputQuery( const ACaption, APrompt : string; var Value : string ) : Boolean
1562: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean
1563: Function InquireSignal( RtlSigNum: Integer ) : TSignalState
1564: Function InRangeR( const A, Min, Max : Double ) : Boolean
1565: function Insert( Index : Integer ) : TCollectionItem
1566: Function Insert( Index : Integer ) : TComboExItem
1567: Function Insert( Index : Integer ) : THeaderSection
1568: Function Insert( Index : Integer ) : TListItem
1569: Function Insert( Index : Integer ) : TStatusPanel
1570: Function Insert( Index : Integer ) : TWorkArea
1571: Function Insert( Index : LongInt; const Text : string ) : LongInt
1572: Function Insert( Sibling : TTreeNode; const S : string ) : TTreeNode
1573: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM ) : INTEGER
1574: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM ) : INTEGER
1575: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
1576: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer ) : LongInt
1577: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode

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1578: Function Instance : Longint
1579: function InstanceSize: Longint
1580: Function Int(e : Extended) : Extended;
1581: function Int64ToStr(i: Int64): String;
1582: Function IntegerToBcd( const AValue : Integer) : TBcd
1583: Function Intensity( const Color32 : TColor32) : Integer;
1584: Function Intensity( const R, G, B : Single) : Single;
1585: Function InterestPayment( const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1586: Function InterestRate(NPeriods:Integer;const Payment,PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime): Extended
1587: Function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1588: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1589: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1590: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1591: function IntersectRect(out Rect : TRect; const R1, R2: TRect): Boolean)
1592: Function IntMibToStr( const Value : string) : string
1593: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1594: Function IntToBin( Value : cardinal) : string
1595: Function IntToHex( Value : Integer; Digits : Integer) : string;
1596: function IntToHex(a: integer; b: integer): string;
1597: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1598: function IntToHex64(Value: Int64; Digits: Integer): string)
1599: Function IntTo3Str( Value : LongInt; separator: string) : string
1600: Function inttobool( aInt : LongInt) : Boolean
1601: function IntToStr(i: Int64): String;
1602: Function IntToStr64(Value: Int64): string)
1603: function IOResult: Integer
1604: Function IPv6AddressToStr(const AValue: TIdIPv6Address): string
1605: Function IsAccel(VK: Word; const Str: string): Boolean
1606: Function IsAddressInNetwork( Address : String) : Boolean
1607: Function IsAdministrator : Boolean
1608: Function IsAlias( const Name : string) : Boolean
1609: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1610: Function IsASCII( const AByte : Byte) : Boolean;
1611: Function IsASCIILDH( const AByte : Byte) : Boolean;
1612: Function IsAssembly(const FileName: string): Boolean;
1613: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1614: Function IsBinary(const AChar : Char) : Boolean
1615: function IsConsole: Boolean)
1616: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1617: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean)
1618: Function IsDelphiDesignMode : boolean
1619: Function IsDelphiRunning : boolean
1620: Function IsDFAState : boolean
1621: Function IsDirectory( const FileName : string) : Boolean
1622: Function IsDomain( const S : String) : Boolean
1623: function IsDragObject(Sender: TObject): Boolean;
1624: Function IsEditing : Boolean
1625: Function ISEMPYTY : BOOLEAN
1626: Function IsEqual( Value : TParameters) : Boolean
1627: Function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1628: function IsEqualGUID(const guid1, guid2: TGUID): Boolean
1629: Function IsFirstNode : Boolean
1630: Function IsFloatZero( const X : Float) : Boolean
1631: Function IsFormatRegistered( Extension, AppID : string) : Boolean
1632: Function IsFormOpen(const FormName: string): Boolean;
1633: Function IsFQDN( const S : String) : Boolean
1634: Function IsGrayScale : Boolean
1635: Function IsHex( AChar : Char) : Boolean;
1636: Function IsHexString(const AString: string): Boolean;
1637: Function IsHostname( const S : String) : Boolean
1638: Function IsInfinite( const AValue : Double) : Boolean
1639: Function IsInLeapYear( const AValue : TDateTime) : Boolean
1640: Function IsInternet: boolean;
1641: Function IsLeadChar( ACh : Char) : Boolean
1642: Function IsLeapYear( Year : Word) : Boolean
1643: function IsLeapYear(Year: Word): Boolean)
1644: function IsLibrary: Boolean)
1645: Function ISLINE : BOOLEAN
1646: Function IsLinkedTo( DataSet : TDataSet) : Boolean
1647: Function ISLINKEDTO( DATA SOURCE : TDATASOURCE) : BOOLEAN
1648: Function IsLiteralChar( const EditMask : string; Offset : Integer) : Boolean
1649: Function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1650: Function IsMainAppWindow( Wnd : HWND) : Boolean
1651: Function IsMediaPresentInDrive( Drive : Char) : Boolean
1652: function IsMemoryManagerSet: Boolean)
1653: Function IsMultiTableQuery( const SQL : WideString) : Boolean
1654: function IsMultiThread: Boolean)
1655: Function IsNumeric( AChar : Char) : Boolean;
1656: Function IsNumeric2( const AString : string) : Boolean;
1657: Function IsNTFS: Boolean;
1658: Function IsOctal( AChar : Char) : Boolean;
1659: Function IsOctalString(const AString: string) : Boolean;
1660: Function IsPathDelimiter( S : string; Index : Integer) : Boolean
1661: function IsPathDelimiter(const S: string; Index: Integer): Boolean)
1662: Function IsPM( const AValue : TDateTime) : Boolean
1663: Function IsPositiveFloatArray( const X : TDynFloatArray) : Boolean
1664: Function IsPrimeFactor( const F, N : Cardinal) : Boolean

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1665: Function IsPrimeRM( N : Cardinal ) : Boolean //rabin miller
1666: Function IsPrimeTD( N : Cardinal ) : Boolean //trial division
1667: Function IsPrivilegeEnabled( const Privilege : string ) : Boolean
1668: Function ISqrt( const I : Smallint ) : Smallint
1669: Function IsReadOnly( const Filename: string): boolean;
1670: Function IsRectEmpty( const Rect : TRect ) : Boolean
1671: function IsRectEmpty(const Rect: TRect): Boolean)
1672: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1673: Function ISRIGHTTOLEFT : BOOLEAN
1674: function IsRightToLeft: Boolean
1675: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1676: Function ISSEQUENCED : BOOLEAN
1677: Function IsSystemModule( const Module : HMODULE ) : Boolean
1678: Function IsSystemResourcesMeterPresent : Boolean
1679: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: string): boolean;
1680: Function IsToday( const AValue : TdateTime ) : Boolean
1681: function IsToday(const AValue: TDateTime): Boolean;
1682: Function IsTopDomain( const AStr : string ) : Boolean
1683: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1684: Function IsUTF8String( const s : UTF8String ) : Boolean
1685: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1686: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1687: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1688: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1689: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1690: Function IsValidDateTime(const AYear,AMonth,ADay,AHour,AMinute, ASecond, AMilliSecond: Word): Boolean
1691: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1692: Function IsValidIdent( Ident : string ) : Boolean
1693: function IsValidIdent(const Ident: string; AllowDots: Boolean): Boolean)
1694: Function IsValidIP( const S : String ) : Boolean
1695: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1696: Function IsvalidISBN( const ISBN : AnsiString ) : Boolean
1697: Function IsVariantManagerSet: Boolean; //deprecated;
1698: Function IsVirtualPcGuest : Boolean;
1699: Function IsVmWareGuest : Boolean;
1700: Function IsVCLControl(Handle: HWnd): Boolean;
1701: Function IsWhiteString( const AStr : String ) : Boolean
1702: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1703: Function IsWoW64: boolean;
1704: Function IsWin64: boolean;
1705: Function IsWow64String(var s: string): Boolean;
1706: Function IsWin64String(var s: string): Boolean;
1707: Function IsWindowsVista: boolean;
1708: Function isPowerof2(num: int64): boolean;
1709: Function powerOf2(exponent: integer): int64;
1710: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1711: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1712: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1713: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1714: function ITEMATPOS(POS:TPOINT:EXISTING:BOOLEAN):INTEGER
1715: Function ItemRect( Index : Integer) : TRect
1716: function ITEMRECT(INDEX:INTEGER):TRECT
1717: Function ItemWidth( Index : Integer) : Integer
1718: Function JavahashCode(val: string): Integer;
1719: Function JosephusG(n,k: integer; var graphout: string): integer;
1720: Function JulianDateToDate( const AValue : Double ) : TDateTime
1721: Function JvMessageBox( const Text, Caption : string; Flags : DWORD ) : Integer;
1722: Function JvMessageBox1( const Text : string; Flags : DWORD ) : Integer;
1723: Function KeepAlive : Boolean
1724: Function KeysToShiftState(Keys: Word): TShiftState;
1725: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1726: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1727: Function KeyboardStateToShiftState: TShiftState; overload;
1728: Function Languages : TLanguages
1729: Function Last : TClass
1730: Function Last : TComponent
1731: Function Last : TObject
1732: Function LastDelimiter( Delimiters, S : string ) : Integer
1733: function LastDelimiter(const Delimiters: string; const S: string): Integer
1734: Function LastPos( const ASubstr : string; const AStr : string ) : Integer
1735: Function Latitude2WGS84(lat: double): double;
1736: Function LCM(m,n:longint):longint;
1737: Function LCMJ( const X, Y : Cardinal ) : Cardinal
1738: Function Ldexp( const X : Extended; const P : Integer ) : Extended
1739: Function LeftStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
1740: Function LeftStr( const AText : WideString; const ACount : Integer ) : WideString;
1741: function Length: Integer;
1742: Procedure LetfileList(FileList: TStringlist; apath: string);
1743: function lengthmp3(mp3path: string):integer;
1744: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect ) : Boolean;
1745: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean;
1746: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1747: function LineStart(Buffer, BufPos: PChar): PChar
1748: function LineStart(Buffer, BufPos: PChar): PChar)
1749: function ListSeparator: char;
1750: function Ln(x: Extended): Extended;
1751: Function LnXP1( const X : Extended ) : Extended
1752: function Lo(vdat: word): byte;

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1753: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1754: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean) : Boolean
1755: Function LoadFileAsString( const FileName : string) : string
1756: Function LoadFromFile( const FileName : string) : TBitmapLoader
1757: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1758: Function LoadPackage(const Name: string): HMODULE
1759: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1760: Function LoadStr( Ident : Integer) : string
1761: Function LoadString(Instance: Longint; IIdent: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1762: Function LoadWideStr( Ident : Integer) : WideString
1763: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1764: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HRESULT
1765: Function LockServer( fLock : LongBool) : HRESULT
1766: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1767: Function Log( const X : Extended) : Extended
1768: Function Log10( const X : Extended) : Extended
1769: Function Log2( const X : Extended) : Extended
1770: function LogBase10(X: Float): Float;
1771: Function LogBase2(X: Float): Float;
1772: Function LogBaseN(Base, X: Float): Float;
1773: Function LogN( const Base, X : Extended) : Extended
1774: Function LogOffOS : Boolean
1775: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1776: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1777: Function LongDateFormat: string;
1778: function LongTimeFormat: string;
1779: Function LongWordToFourChar( AC Cardinal : LongWord) : string
1780: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1781: Function LookupName( const name : string) : TInAddr
1782: Function LookupService( const service : string) : Integer
1783: function Low: Int64;
1784: Function LowerCase( S : string) : string
1785: Function Lowercase(s : AnyString) : AnyString;
1786: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1787: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1788: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1789: function MainInstance: longword
1790: function MainThreadID: longword
1791: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1792: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1793: Function MakeCanonicalIPv4Address( const AAAddr : string) : string
1794: Function MakeCanonicalIPv6Address( const AAAddr : string) : string
1795: Function MakeIDB( out Bitmap : PBitmapInfo) : Integer
1796: Function MakeWordIntoIPv4Address( const ADWord : Cardinal) : string
1797: function Makelong(A, B: Word): Longint)
1798: Function MakeTempFilename( const APPath : String) : string
1799: Function MakeValidFileName( const Str : string) : string
1800: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1801: function MakeWord(A, B: Byte): Word)
1802: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1803: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1804: Function MapValues( Mapping : string; Value : string) : string
1805: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1806: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1807: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1808: Function MaskGetFldSeparator( const EditMask : string) : Integer
1809: Function MaskGetMaskBlank( const EditMask : string) : Char
1810: Function MaskGetMaskSave( const EditMask : string) : Boolean
1811: Function MaskInitLiteralToChar( IChar : Char) : Char
1812: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1813: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1814: Function MaskString( Mask, Value : String) : String
1815: Function Match( const sString : string) : TniRegularExpressionMatchResult
1816: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1817: Function Matches( const Filename : string) : Boolean
1818: Function MatchesMask( const Filename, Mask : string) : Boolean
1819: Function MatchStr( const AText : string; const AValues : array of string) : Boolean
1820: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1821: Function Max( AValueOne, AValueTwo : Integer) : Integer
1822: function Max(const x,y: Integer): Integer;
1823: Function Max1( const B1, B2 : Shortint) : Shortint;
1824: Function Max2( const B1, B2 : Smallint) : Smallint;
1825: Function Max3( const B1, B2 : Word) : Word;
1826: function Max3(const x,y,z: Integer): Integer;
1827: Function Max4( const B1, B2 : Integer) : Integer;
1828: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1829: Function Max6( const B1, B2 : Int64) : Int64;
1830: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1831: Function MaxFloat( const X, Y : Float) : Float
1832: Function MaxFloatArray( const B : TDynFloatArray) : Float
1833: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1834: function MaxIntValue(const Data: array of Integer):Integer)
1835: Function MaxJ( const B1, B2 : Byte) : Byte;
1836: function MaxPath: string;
1837: function MaxValue(const Data: array of Double): Double)
1838: Function MaxCalc( const Formula : string) : Extended //math expression parser
1839: Procedure MaxCalcF( const Formula : string); //out to console memo2
1840: function MD5(const fileName: string): string;
1841: Function Mean( const Data : array of Double) : Extended

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1842: Function Median( const X : TDynFloatArray ) : Float
1843: Function Memory : Pointer
1844: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer ) : Integer
1845: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1846: function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1847: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1848: Function MessageDlg1(const
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1849: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
  Y:Integer):Integer;
1850: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
1851: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
1852: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn ) : Integer;
1853: Function MibToId( Mib : string ) : string
1854: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer ) : AnsiString;
1855: Function MidStr( const AText : WideString; const AStart, ACount : Integer ) : WideString;
1856: Function microsecondsToCentimeters(mseconds:longint): longint; //340m/s speed of sound
1857: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64'
1858: Function MIDIOut( DeviceID : Cardinal ) : IJclMIDIOut
1859: Procedure GetMidiOutputs( const List : TStrings )
1860: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single ) : TSingleNoteTuningData
1861: Function MIDINoteToStr( Note : TMIDINote ) : string
1862: Function WinMidiOut( DeviceID : Cardinal ) : IJclWinMidiOut
1863: Procedure GetMidiOutputs( const List : TStrings )
1864: Procedure MidiOutCheck( Code : MMResult )
1865: Procedure MidiInCheck( Code : MMResult )
1866: Function MillisecondOf( const AValue : TDateTime ) : Word
1867: Function MillisecondOfTheDay( const AValue : TDateTime ) : LongWord
1868: Function MillisecondOfTheHour( const AValue : TDateTime ) : LongWord
1869: Function MillisecondOfTheMinute( const AValue : TDateTime ) : LongWord
1870: Function MillisecondOfTheMonth( const AValue : TDateTime ) : LongWord
1871: Function MillisecondOfTheSecond( const AValue : TDateTime ) : Word
1872: Function MillisecondOfTheWeek( const AValue : TDateTime ) : LongWord
1873: Function MillisecondOfTheYear( const AValue : TDateTime ) : Int64
1874: Function MillisecondsBetween( const ANow, AThen : TDateTime ) : Int64
1875: Function MillisecondSpan( const ANow, AThen : TDateTime ) : Double
1876: Function milliToDate( Millisecond : LongInt ) : TDateTime );
1877: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean ) : Int64
1878: Function millis: int64;
1879: Function Min( AValueOne, AValueTwo : Integer ) : Integer
1880: Function Min1( const B1, B2 : Shortint ) : Shortint;
1881: Function Min2( const B1, B2 : Smallint ) : Smallint;
1882: Function Min3( const B1, B2 : Word ) : Word;
1883: Function Min4( const B1, B2 : Integer ) : Integer;
1884: Function Min5( const B1, B2 : Cardinal ) : Cardinal;
1885: Function Min6( const B1, B2 : Int64 ) : Int64;
1886: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1887: Function MinClientRect : TRect;
1888: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1889: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1890: Function MinFloat( const X, Y : Float ) : Float
1891: Function MinFloatArray( const B : TDynFloatArray ) : Float
1892: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1893: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1894: Function MinimizeName( const Filename : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1895: function MinimizeName(const Filename: String; Canvas: TCanvas;MaxLen: Integer): TFileName
1896: Function MinIntValue( const Data : array of Integer ) : Integer
1897: function MinIntValue(const Data: array of Integer):Integer)
1898: Function MinJ( const B1, B2 : Byte ) : Byte;
1899: Function MinuteOf( const AValue : TDateTime ) : Word
1900: Function MinuteOfTheDay( const AValue : TDateTime ) : Word
1901: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1902: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1903: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1904: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1905: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1906: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1907: Function minValue( const Data : array of Double ) : Double
1908: function minValue(const Data: array of Double):Double)
1909: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1910: Function MMCheck( const MciError : MCIERROr; const Msg : string ) : MCIERROr
1911: Function ModFloat( const X, Y : Float ) : Float
1912: Function ModifiedJulianDateToDate( const AValue : Double ) : TDateTime
1913: Function Modify( const Key : string; Value : Integer ) : Boolean
1914: Function ModuleCacheID : Cardinal
1915: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1916: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1917: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1918: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1919: Function Monthof( const AValue : TDateTime ) : Word
1920: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1921: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1922: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1923: Function MonthStr( DateTime : TDateTime ) : string
1924: Function MouseCoord( X, Y : Integer ) : TGridCoord
1925: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER

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1926: Function MoveFile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1927: Function MoveNext : Boolean
1928: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1929: function MSecsToTimeStamp(MSecs: Comp): TTimeStamp
1930: Function Name : string
1931: Function NetPresentValue(const Rate:Extended;const CashFlows:array of
  Double;PaymentTime:TPaymentTime):Extended
1932: function NetworkVolume(DriveChar: Char): string
1933: Function NEWBOTTONLINE : INTEGER
1934: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant ) : PExprNode
1935: Function NEWITEM( const ACAPTION : String; ASHORTCUT : TSHORTCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK : TNOTIFYEVENT; HCTX : WORD; const ANAME : String ) : TMENUITEM
1936: Function NEWLINE : TMENUITEM
1937: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem ) : TMAINMENU
1938: Function NewNode(Kind : TExprNodeKind; Operator:TCANOperator; const Data:Variant; Left,
  Right:PExprNode):PExprNode
1939: Function NEWPOPUPMENU(OWNER:TCOMPONENT;const ANAME:String; ALIGNMENT:TPOPUPALIGNMENT;AUTOPOPUP:BOOLEAN;
  const ITEMS : array of TMenuItem) : TPOPUPMENU
1940: Function NewState( eType : TniRegularExpressionStateType ) : TniRegularExpressionState
1941: Function NEWSUBMENU(const ACAPT:String;HCTX:WORD;const ANAME:String;ITEMS:array of
  TMenuItem;AENABLED:BOOL): TMENUITEM
1942: Function NEWTOPLINE : INTEGER
1943: Function Next : TIdAuthWhatsNext
1944: Function NextCharIndex( S : String; Index : Integer ) : Integer
1945: Function NextRecordSet : TCustomSQLDataSet
1946: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1947: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLToken ) : TSQLToken;
1948: Function NextToken : Char
1949: Function nextToken : WideString
1950: function NextToken:Char
1951: Function Norm( const Data : array of Double ) : Extended
1952: Function NormalizeAngle( const Angle : Extended ) : Extended
1953: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
1954: Function NormalizeRect( const Rect : TRect ) : TRect
1955: function NormalizeRect(const Rect: TRect): TRect;
1956: Function Now : TDateTime
1957: function Now2: tDateTime
1958: Function NumProcessThreads : integer
1959: Function NumThreadCount : integer
1960: Function NthDayOfWeek( const AValue : TDateTime ) : Word
1961: Function NtProductType : TNTProductType
1962: Function NtProductTypeString : string
1963: function Null: Variant;
1964: Function NullPoint : TPoint
1965: Function NullRect : TRect
1966: Function Null2Blank(aString:String):String;
1967: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue :
  Extended; PaymentTime : TPaymentTime ) : Extended
1968: Function NumIP : integer
1969: function Odd(x: Longint): boolean;
1970: Function OffsetFromUTC : TDateTime
1971: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
1972: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
1973: function OffsetRect(var Rect: TRect; DX:Integer; DY:Integer): Boolean
1974: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
1975: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
1976: Function OldBCDTOCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
1977: Function OldCurrToBCD(const Curr:Currency; var BCD:TBcd; Precision:Integer;Decimals:Integer): Boolean
1978: function OpenBit:Integer
1979: Function OpenDatabase : TDatabase
1980: Function OpenDatabase( const DatabaseName : string ) : TDatabase
1981: Procedure OpenDir(adir: string);
1982: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
1983: Function OpenObject( Value : PChar ) : Boolean;
1984: Function OpenObject1( Value : string ) : Boolean;
1985: Function OpenSession( const SessionName : string ) : TSession
1986: Function OpenVolume( const Drive : Char ) : THandle
1987: function OrdFourByteToCardinal(AByte1, AByte2, AByte3, AByte4 : Byte): Cardinal
1988: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
1989: Function OrdToBinary( const Value : Byte ) : string;
1990: Function OrdToBinary1( const Value : Shortint ) : string;
1991: Function OrdToBinary2( const Value : Smallint ) : string;
1992: Function OrdToBinary3( const Value : Word ) : string;
1993: Function OrdToBinary4( const Value : Integer ) : string;
1994: Function OrdToBinary5( const Value : Cardinal ) : string;
1995: Function OrdToBinary6( const Value : Int64 ) : string;
1996: Function OSCheck( RetVal : Boolean ) : Boolean
1997: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
1998: Function OSIdentToString( const OSIdent : DWORD ) : string
1999: Function Output: Text)
2000: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
2001: Function Owner : TCustomListView
2002: function Owner : TPersistent
2003: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2004: Function PadL( pStr : String; plth : integer ) : String
2005: Function Padl(s : AnyString;I : longInt) : AnyString;
2006: Function PadLCh( pStr : String; plth : integer; pChr : char ) : String
2007: Function PadR( pStr : String; plth : integer ) : String
2008: Function Padr(s : AnyString;I : longInt) : AnyString;

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2009: Function PadRCh( pStr : String; pLth : integer; pChr : char) : String
2010: Function PadString( const AString : String; const ALen : Integer; const AChar : Char) : String
2011: Function Padz(s : AnyString; I : longInt) : AnyString;
2012: Function PaethPredictor( a, b, c : Byte) : Byte
2013: Function PARAMBYNAME( const VALUE : String) : TPARAM
2014: Function ParamByName( const Value : WideString) : TParameter
2015: Function ParamCount: Integer
2016: Function ParamsEncode( const ASrc : string) : string
2017: function ParamStr(Index: Integer): string
2018: Function ParseDate( const DateStr : string) : TDateTime
2019: Function PARSESQL( SQL : string; DOCREATE : BOOLEAN) : String
2020: Function ParseSQL( SQL : WideString; DoCreate : Boolean) : WideString
2021: Function PathAddExtension( const Path, Extension : string) : string
2022: Function PathAddSeparator( const Path : string) : string
2023: Function PathAppend( const Path, Append : string) : string
2024: Function PathBuildRoot( const Drive : Byte) : string
2025: Function PathCanonicalize( const Path : string) : string
2026: Function PathCommonPrefix( const Path1, Path2 : string) : Integer
2027: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer:CmpFmt:TCompactPath):string;
2028: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int:CmpFmt:TCompactPath):string;
2029: Function PathEncode( const ASrc : string) : string
2030: Function PathExtractFileDirFixed( const S : AnsiString) : AnsiString
2031: Function PathExtractFileNameNoExt( const Path : string) : string
2032: Function PathExtractPathDepth( const Path : string; Depth : Integer) : string
2033: Function PathGetDepth( const Path : string) : Integer
2034: Function PathGetLongName( const Path : string) : string
2035: Function PathGetLongName2( Path : string) : string
2036: Function PathGetShortName( const Path : string) : string
2037: Function PathIsAbsolute( const Path : string) : Boolean
2038: Function PathIsChild( const Path, Base : AnsiString) : Boolean
2039: Function PathIsDiskDevice( const Path : string) : Boolean
2040: Function PathIsUNC( const Path : string) : Boolean
2041: Function PathRemoveExtension( const Path : string) : string
2042: Function PathRemoveSeparator( const Path : string) : string
2043: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2044: Function Peek : Pointer
2045: Function Peek : TObject
2046: function PERFORM(MSG:CARDINAL;WPARAM:LPARAM:LONGINT):LONGINT
2047: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime) : Extended
2048: function Permutation(npr, k: integer): extended;
2049: function PermutationInt(npr, k: integer): Int64;
2050: Function PermutationJ( N, R : Cardinal) : Float
2051: Function Pi : Extended;
2052: Function PiE : Extended;
2053: Function PixelsToDialogsX( const Pixels : Word) : Word
2054: Function PixelsToDialogsY( const Pixels : Word) : Word
2055: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2056: Function Point( X, Y : Integer) : TPoint
2057: function Point(X, Y: Integer): TPoint)
2058: Function PointAssign( const X, Y : Integer) : TPoint
2059: Function PointDist( const P1, P2 : TPoint) : Double;
2060: function PointDist(const P1,P2: TFloatPoint): Double;
2061: Function PointDist1( const P1, P2 : TFloatPoint) : Double;
2062: function PointDist2(const P1,P2: TPoint): Double;
2063: Function PointEqual( const P1, P2 : TPoint) : Boolean
2064: Function PointIsNull( const P : TPoint) : Boolean
2065: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint) : Double
2066: Function Poly( const X : Extended; const Coefficients : array of Double) : Extended
2067: Function PortTCPISOpen(dwPort : Word; ipAddressStr: String): boolean;
2068: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2069: Function Pop : Pointer
2070: Function Pop : TObject
2071: Function PopnStdDev( const Data : array of Double) : Extended
2072: Function PopnVariance( const Data : array of Double) : Extended
2073: Function PopulationVariance( const X : TDynFloatArray) : Float
2074: function Pos(SubStr, S: AnyString): Longint;
2075: Function PosEqual( const Rect : TRect) : Boolean
2076: Function PosEx( const SubStr, S : string; Offset : Integer) : Integer
2077: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt) : Integer
2078: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2079: Function Post1( AURL : string; const ASource : TStrings) : string;
2080: Function Post2( AURL : string; const ASource : TStream) : string;
2081: Function Post3( AURL : string; const ASource : TIdMultiPartFormDataStream) : string;
2082: Function PostData( const UserData : WideString; const CheckSum : DWORD) : Boolean
2083: Function PostData( const UserData : WideString; const CheckSum : integer): Boolean
2084: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2085: Function Power( const Base, Exponent : Extended) : Extended
2086: Function PowerBig(aval, n:integer): string;
2087: Function PowerIntJ( const X : Float; N : Integer) : Float;
2088: Function PowerJ( const Base, Exponent : Float) : Float;
2089: Function PowerOfOS : Boolean
2090: Function PreformatDateString( Ps : string) : string
2091: Function PresentValue(const Rate:Extend/NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2092: Function PrimeFactors( N : Cardinal) : TDynCardinalArray
2093: Function Printer : TPrinter
2094: Function ProcessPath2( const ABasePath:String; const APATH: String; const APATHDelim:string): string

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2095: Function ProcessResponse : TIdHTTPWhatsNext
2096: Function ProduceContent : string
2097: Function ProduceContentFromStream( Stream : TStream ) : string
2098: Function ProduceContentFromString( const S : string ) : string
2099: Function ProgIDToClassID( const ProgID: string): TGUID;
2100: Function PromptDataLinkfile( ParentHandle : THandle; InitialFile : WideString ) : WideString
2101: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString ) : WideString
2102: Function PromptFileName( var AFileName : string; const AFiliter : string; const ADefaultExt : string;
  const ATitle : string; const AInitialDir : string; SaveDialog : Boolean ) : Boolean
2103: function PromptFileName(var AFileName: string; const AFiliter: string; const ADefaultExt: string;const
  ATitle: string; const AInitialDir: string; SaveDialog: Boolean): Boolean)
2104: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FileName,Output:String):Boolean
2105: Function PtInRect( const Rect : TRect; const P : TPoint ) : Boolean
2106: function PtInRect(const Rect: TRect; const P: TPoint): Boolean
2107: Function Push( AItem : Pointer ) : Pointer
2108: Function Push( AObject : TObject ) : TObject
2109: Function Putl( AURL : string; const ASource : TStream ) : string;
2110: Function Pythagoras( const X, Y : Extended ) : Extended
2111: Function queryDLLInterface( var queryList : TStringList ) : TStringList
2112: Function queryDLLInterfaceTwo( var queryList : TStringList ) : TStringList
2113: Function QueryInterface( const IID: TGUID; out Obj: HResult, CdStdCall
2114: Function queryPerformanceCounter2(mse: int64): int64;
2115: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2116: //Function QueryPerformanceFrequency(mse: int64): boolean;
2117: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2118: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2119: Procedure QueryPerformanceCounter1(var aC: Int64);
2120: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2121: Function Quote( const ACommand : String ) : SmallInt
2122: Function QuotedStr( S : string ) : string
2123: Function RadToCycle( const Radians : Extended ) : Extended
2124: Function RadToDeg( const Radians : Extended ) : Extended
2125: Function RadToDeg( const Value : Extended ) : Extended;
2126: Function RadToDeg1( const Value : Double ) : Double;
2127: Function RadToDeg2( const Value : Single ) : Single;
2128: Function RadToGrad( const Radians : Extended ) : Extended
2129: Function RadToGrad( const Value : Extended ) : Extended;
2130: Function RadToGrad1( const Value : Double ) : Double;
2131: Function RadToGrad2( const Value : Single ) : Single;
2132: Function RandG( Mean, StdDev : Extended ) : Extended
2133: function Random(const ARange: Integer): Integer;
2134: function random2(a: integer): double
2135: function RandomE: Extended;
2136: function RandomF: Extended;
2137: Function RandomFrom( const AValues : array of string ) : string;
2138: Function RandomRange( const AFrom, ATo : Integer ) : Integer
2139: function randSeed: longint
2140: Function RawToDataColumn( ACol : Integer ) : Integer
2141: Function Read : Char
2142: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint ) : HResult
2143: function Read(Buffer:String;Count:LongInt):LongInt
2144: Function ReadBinaryStream( const Section, Name : string; Value : TStream ) : Integer
2145: Function ReadBool( const Section, Ident : string; Default : Boolean ) : Boolean
2146: Function ReadCardinal( const AConvert : boolean ) : Cardinal
2147: Function ReadChar : Char
2148: Function ReadClient( var Buffer, Count : Integer ) : Integer
2149: Function ReadDate( const Section, Name : string; Default : TDateTime ) : TDateTime
2150: Function ReadDateTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2151: Function ReadFloat( const Section, Name : string; Default : Double ) : Double
2152: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptionTimeout:
  Boolean):Integer
2153: Function ReadInteger( const AConvert : boolean ) : Integer
2154: Function ReadInteger( const Section, Ident : string; Default : Longint ) : Longint
2155: Function ReadLn : string
2156: Function ReadLn( ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer ) : string
2157: function ReadLn(question: string): string;
2158: Function ReadLnWait( AFailCount : Integer ) : string
2159: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2160: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2161: Function ReadSmallInt( const AConvert : boolean ) : SmallInt
2162: Function ReadString( const ABytes : Integer ) : string
2163: Function ReadString( const Section, Ident, Default : string ) : string
2164: Function ReadString( Count : Integer ) : string
2165: Function ReadTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2166: Function ReadTimeStampCounter : Int64
2167: Function RebootOS : Boolean
2168: Function Receive( ATimeOut : Integer ) : TReplyStatus
2169: Function ReceiveBuf( var Buf, Count : Integer ) : Integer
2170: Function ReceiveLength : Integer
2171: Function ReceiveText : string
2172: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2173: Function ReceiveSerialText: string
2174: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word ) : TDateTime
2175: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,
  AMilliSec:Word):TDateTime
2176: Function RecodeDay( const AValue : TDateTime; const ADay : Word ) : TDateTime
2177: Function RecodeHour( const AValue : TDateTime; const AHour : Word ) : TDateTime
2178: Function RecodeMillisecond( const AValue : TDateTime; const AMilliSecond : Word ) : TDateTime
2179: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word ) : TDateTime

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2180: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word ) : TDateTime
2181: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word ) : TDateTime
2182: Function RecodeTime( const AValue: TDateTime; const AHour,AMinute,ASecond,AMilliSecond:Word):TDateTime
2183: Function RecodeYear( const AValue : TDateTime; const AYear : Word ) : TDateTime
2184: Function Reconcile( const Results : OleVariant ) : Boolean
2185: Function Rect( Left, Top, Right, Bottom : Integer ) : TRect
2186: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABOTTOM: Integer): TRect
2187: Function Rect2( const ATopLeft, ABottomRight : TPoint ) : TRect;
2188: Function RectAssign( const Left, Top, Right, Bottom : Integer ) : TRect
2189: Function RectAssignPoints( const TopLeft, BottomRight : TPoint ) : TRect
2190: Function RectBounds( const Left, Top, Width, Height : Integer ) : TRect
2191: Function RectCenter( const R : TRect ) : TPoint
2192: Function RectEqual( const R1, R2 : TRect ) : Boolean
2193: Function RectHeight( const R : TRect ) : Integer
2194: Function RectIncludesPoint( const R : TRect; const Pt : TPoint ) : Boolean
2195: Function RectIncludesRect( const R1, R2 : TRect ) : Boolean
2196: Function RectIntersection( const R1, R2 : TRect ) : TRect
2197: Function RectIntersectRect( const R1, R2 : TRect ) : Boolean
2198: Function RectIsEmpty( const R : TRect ) : Boolean
2199: Function RectIsNull( const R : TRect ) : Boolean
2200: Function RectIsSquare( const R : TRect ) : Boolean
2201: Function RectisValid( const R : TRect ) : Boolean
2202: Function RectsAreValid( R : array of TRect ) : Boolean
2203: Function RectUnion( const R1, R2 : TRect ) : TRect
2204: Function RectWidth( const R : TRect ) : Integer
2205: Function RedComponent( const Color32 : TColor32 ) : Integer
2206: Function Refresh : Boolean
2207: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2208: Function RegisterConversionFamily( const ADescription : string ) : TConvFamily
2209: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType ) : Boolean;
2210: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType
2211: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2212: Function ReleaseDC(hdwnd: HWND; hdc: HDC): integer;
2213: Function ReleaseHandle : HBITMAP
2214: Function ReleaseHandle : HENHMETAFILE
2215: Function ReleaseHandle : HICON
2216: Function ReleasePalette : HPALETTE
2217: Function RemainderFloat( const X, Y : Float ) : Float
2218: Function Remove( AClass : TClass ) : Integer
2219: Function Remove( AComponent : TComponent ) : Integer
2220: Function Remove( AItem : Integer ) : Integer
2221: Function Remove( AItem : Pointer ) : Pointer
2222: Function Remove( AItem : TObject ) : TObject
2223: Function Remove( AObject : TObject ) : Integer
2224: Function RemoveBackslash( const PathName : string ) : string
2225: Function RemoveDF( aString : String ) : String //removes thousand separator
2226: Function RemoveDir( Dir : string ) : Boolean
2227: function RemoveDir(const Dir: string): Boolean
2228: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2229: Function RemoveFileExt( const FileName : string ) : string
2230: Function RemoveHeaderEntry( AHeader, AEntry : string ) : string
2231: Function RenameFile( OldName, NewName : string ) : Boolean
2232: function RenameFile(const OldName: string; const NewName: string): Boolean
2233: Function ReplaceStr( const AText, AFromText, AToText : string ) : string
2234: Function ReplaceText( const AText, AFromText, AToText : string ) : string
2235: Function Replicate(c : char;I : longInt) : String;
2236: Function Request : TWebRequest
2237: Function ResemblesText( const AText, AOther : string ) : Boolean
2238: Function Reset : Boolean
2239: function Reset2(mypath: string):string;
2240: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2241: Function ResourceLoad( RestType : TResType; const Name : string; MaskColor : TColor ) : Boolean
2242: Function Response : TWebResponse
2243: Function ResumeSupported : Boolean
2244: Function RETHINKHOTKEYS : BOOLEAN
2245: Function RETHINKLINES : BOOLEAN
2246: Function Retrieve( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2247: Function RetrieveCurrentDir : string
2248: Function RetrieveDeltas( const cdsArray : array of TClientDataset ) : Variant
2249: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2250: Function RetrieveMailBoxSize : integer
2251: Function RetrieveMsgSize( const MsgNum : Integer ) : Integer
2252: Function RetrieveProviders( const cdsArray : array of TClientDataset ) : Variant
2253: Function RetrieveRaw( const MsgNum: Integer; const Dest : TStrings ) : boolean
2254: Function ReturnMIMETYPE( var MediaType, EncType : String ) : Boolean
2255: Function ReverseBits( Value : Byte) : Byte;
2256: Function ReverseBits1( Value : Shortint ) : Shortint;
2257: Function ReverseBits2( Value : Smallint ) : Smallint;
2258: Function ReverseBits3( Value : Word) : Word;
2259: Function ReverseBits4( Value : Cardinal) : Cardinal;
2260: Function ReverseBits4( Value : Integer) : Integer;
2261: Function ReverseBits5( Value : Int64) : Int64;
2262: Function ReverseBytes( Value : Word) : Word;
2263: Function ReverseBytes1( Value : Smallint ) : Smallint;
2264: Function ReverseBytes2( Value : Integer) : Integer;
2265: Function ReverseBytes3( Value : Cardinal ) : Cardinal;
2266: Function ReverseBytes4( Value : Int64) : Int64;
2267: Function ReverseString( const AText : string ) : string
2268: Function ReverseDNSLookup(const IPAddrs:String;DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;

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2269: Function Revert : HResult
2270: Function RGB(R,G,B: Byte): TColor;
2271: Function RGB2BGR( const Color : TColor) : TColor
2272: Function RGB2TColor( R, G, B : Byte) : TColor
2273: Function RGBToWebColorName( RGB : Integer) : string
2274: Function RGBToWebColorStr( RGB : Integer) : string
2275: Function RgbToHtml( Value : TColor) : string
2276: Function HtmlToRgb(const Value: string): TColor;
2277: Function RightStr( const AStr : String; Len : Integer) : String
2278: Function RightStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
2279: Function RightStr( const AText : WideString; const ACount : Integer) : WideString;
2280: Function ROL( AVal : LongWord; AShift : Byte) : LongWord
2281: Function ROR( AVal : LongWord; AShift : Byte) : LongWord
2282: Function RotatePoint( Point : TFloatPoint; const Center : TFloatPoint; const Angle : Float) : TFloatPoint
2283: function RotatePoint(Point: TFloatPoint; const Center: TFloatPoint; const Angle: Double): TFloatPoint;
2284: Function Round(e : Extended) : Longint;
2285: Function Round64(e: extended): Int64;
2286: Function RoundAt( const Value : string; Position : SmallInt) : string
2287: Function RoundFrequency( const Frequency : Integer) : Integer
2288: Function RoundInt( Value : Integer; StepSize : Integer) : Integer
2289: Function RoundPoint( const X, Y : Double) : TPoint
2290: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double) : TRect
2291: Function RowCount : Integer
2292: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant
2293: Function RowRequest( Row : OleVariant; Options : TFetchOptions) : OleVariant
2294: Function RPos( const ASub, AIn : String; AStart : Integer) : Integer
2295: Function RRot( const Value : Byte; const Count : TBitRange) : Byte;
2296: Function RRot1( const Value : Word; const Count : TBitRange) : Word;
2297: Function RRot2( const Value : Integer; const Count : TBitRange) : Integer;
2298: Function RunDLL32(const ModuleNa,FuncName,CmdLine:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean
2299: Function RunningProcessesList( const List : TStrings; FullPath : Boolean) : Boolean
2300: Function S_AddBackSlash( const ADirName : string) : string
2301: Function S_AllTrim( const cStr : string) : string
2302: Function S_AtRepl( const cAT, cStr, cRepl : string) : string
2303: Function S_Cut( const cStr : string; const iLen : integer) : string
2304: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer) : integer
2305: Function S_DirExists( const Adir : string) : Boolean
2306: Function S_Empty( const cStr : string) : boolean
2307: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer) : string
2308: Function S_LargeFontsActive : Boolean
2309: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer) : Extended
2310: Function S_LTrim( const cStr : string) : string
2311: Function S_ReadNextTextLineFromStream( stream : TStream) : string
2312: Function S_RepeatChar( const iLen : integer; const AChar : Char) : String
2313: Function S_ReplFirst( const cAT, cStr, cRepl : string) : string
2314: Function S_RoundDecimal( AValue : Extended; APlaces : Integer) : Extended
2315: Function S_RTrim( const cStr : string) : string
2316: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer) : string
2317: //Type TS_ShellExecuteCmd = (seCmdOpen,seCmdPrint,seCmdExplore);
2318: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd) : string
2319: Function S_Space( const iLen : integer) : String
2320: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2321: Function S_StrBlanksCuttoLong( const cStr : string; const iLen : integer) : string
2322: Function S_StrCRC32( const Text : string) : LongWORD
2323: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2324: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2325: Function S_StringtoUTF_8( const AString : string) : string
2326: Function S_StrLBlanks( const cStr : string; const iLen : integer) : string
2327: function S_StrToReal( const cStr: string; var R: Double): Boolean
2328: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean) : boolean
2329: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean) : string
2330: Function S_UTF_8ToString( const AString : string) : string
2331: Function S_WBox( const AText : string) : integer
2332: Function SameDate( const A, B : TDateTime) : Boolean
2333: function SameDate( const A, B: TDateTime): Boolean;
2334: Function SameDateTime( const A, B : TDateTime) : Boolean
2335: function SameDateTime( const A, B: TDateTime): Boolean;
2336: Function SameFileName( S1, S2 : string) : Boolean
2337: Function SameText( S1, S2 : string) : Boolean
2338: function SameText( const S1: string; const S2: string): Boolean)
2339: Function SameTime( const A, B : TDateTime) : Boolean
2340: function SameTime( const A, B: TDateTime): Boolean;
2341: function SameValue( const A, B : Extended; Epsilon: Extended): Boolean //overload;
2342: function SameValue1( const A, B: Double; Epsilon: Double): Boolean //overload;
2343: function SameValue2( const A, B: Single; Epsilon: Single): Boolean //overload;
2344: Function SampleVariance( const X : TDynFloatArray) : Float
2345: Function Sar( const Value : Shortint; const Count : TBitRange) : Shortint;
2346: Function Sar1( const Value : Smallint; const Count : TBitRange) : Smallint;
2347: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2348: Function SaveToFile( const AFileName : TFileName) : Boolean
2349: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2350: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2351: Function ScanF(const aformat: String; const args: array of const): string;
2352: Function SCREENTOCLIENT(POINT:TPOINT):TPOINT
2353: Function SearchBuf(Buf:PChar; BufLen:Integer; SelStart,SelLength:Integer;SearchString:String;Options:TStringSearchOptions):PChar
2354: Function SearchBuf2(Buf: string;SelStart,SelLength:Integer; SearchString: String;Options:TStringSearchOptions):Integer;
2355: function SearchRecattr: integer;

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2356: function SearchRecExcludeAttr: integer;
2357: Function SearchRecFileSize64( const SearchRec : TSearchRec) : Int64
2358: function SearchRecname: string;
2359: function SearchRecsize: integer;
2360: function SearchRecTime: integer;
2361: Function Sec( const X : Extended) : Extended
2362: Function Secant( const X : Extended) : Extended
2363: Function SecH( const X : Extended) : Extended
2364: Function SecondOf( const AValue : TDateTime) : Word
2365: Function SecondOfTheDay( const AValue : TDateTime) : LongWord
2366: Function SecondOfTheHour( const AValue : TDateTime) : Word
2367: Function SecondOfTheMinute( const AValue : TDateTime) : Word
2368: Function SecondOfTheMonth( const AValue : TDateTime) : LongWord
2369: Function SecondOfTheWeek( const AValue : TDateTime) : LongWord
2370: Function SecondOfTheYear( const AValue : TDateTime) : LongWord
2371: Function SecondsBetween( const ANow, AThen : TDateTime) : Int64
2372: Function SecondSpan( const ANow, AThen : TDateTime) : Double
2373: Function SectionExists( const Section : string) : Boolean
2374: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption) : Boolean
2375: Function Seek( libMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint) : HResult
2376: function Seek(Offset:LongInt;Origin:Word):LongInt
2377: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2378: Function SelectDirectory1( const Caption : string; const Root : WideString; var Directory : string;
Options : TSelectDirExtOpts; Parent : TWinControl) : Boolean;
2379: Function SelectImage( var AFileName : string; const Extensions, Filter : string) : Boolean
2380: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2381: Function SendBuf( var Buf, Count : Integer) : Integer
2382: Function SendCmd( const AOut : string; const AResponse : SmallInt) : SmallInt;
2383: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt) : SmallInt;
2384: Function SendKey( AppName : string; Key : Char) : Boolean
2385: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2386: Function SendStream( AStream : TStream) : Boolean
2387: Function SendStreamThenDrop( AStream : TStream) : Boolean
2388: Function SendText( const S : string) : Integer
2389: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2390: Function SendSerialText(Data: String): cardinal
2391: Function Sent : Boolean
2392: Function ServicesFilePath: string
2393: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer) : TColor32
2394: Function SetBit( const Value : Byte; const Bit : TBitRange) : Byte;
2395: Function SetBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2396: Function SetBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2397: Function SetBit3( const Value : Word; const Bit : TBitRange) : Word;
2398: Function SetBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2399: Function SetBit4( const Value : Integer; const Bit : TBitRange) : Integer;
2400: Function SetBit5( const Value : Int64; const Bit : TBitRange) : Int64;
2401: Function SetClipboard( NewClipboard : TClipboard) : TClipboard
2402: Function SetColorBlue( const Color : TColor; const Blue : Byte) : TColor
2403: Function SetColorFlag( const Color : TColor; const Flag : Byte) : TColor
2404: Function SetColorGreen( const Color : TColor; const Green : Byte) : TColor
2405: Function SetColorRed( const Color : TColor; const Red : Byte) : TColor
2406: Function SetCurrentDir( Dir : string) : Boolean
2407: function SetCurrentDir(const Dir: string): Boolean
2408: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2409: Function SetDirCreation( const DirName : string; const DateTime : TDateTime) : Boolean
2410: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime) : Boolean
2411: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime) : Boolean
2412: Function SetDisplayResolution( const XRes, YRes : DWORD) : Longint
2413: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2414: Function SetEnvironmentVar( const Name, Value : string) : Boolean
2415: Function SetErrorProc( ErrorProc : TSocketErrorProc) : TSocketErrorProc
2416: Function SetFileCreation( const FileName : string; const DateTime : TDateTime) : Boolean
2417: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime) : Boolean
2418: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime) : Boolean
2419: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer) : Boolean
2420: function SETFOCUSCONTROL(CONTROL:TWINCONTROL):BOOLEAN
2421: Function SetLocalTime( Value : TDateTime) : boolean
2422: Function SetPrecisionTolerance( NewTolerance : Float) : Float
2423: Function SetPrinter( NewPrinter : TPrinter) : TPrinter
2424: Function SetPrivilege(privilegeName: string; enable: boolean): boolean;
2425: Function SetRGBValue( const Red, Green, Blue : Byte) : TColor
2426: Function SetSequence( S, Localizar, Substituir : shortstring) : shortstring
2427: Function SetSize( libNewSize : Longint) : HResult
2428: Function SetUserObjectFullAccess( hUserObject : THandle) : Boolean
2429: Function Sgn( const X : Extended) : Integer
2430: function SHA1(const fileName: string): string;
2431: function SHA256(astr: string; amode: char): string
2432: function SHA512(astr: string; amode: char): string
2433: Function ShareMemoryManager: Boolean
2434: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2435: function Shellexecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2436: Function Shellexecute3(aFilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2437: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE) : TSHORCUT
2438: Function SHORTCUTTOTEXT( SHORTCUT : TSHORCUT) : String
2439: function ShortDateFormat: string;
2440: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
RTL:Bool;EllipsisWidth:Int):WideString
2441: function ShortTimeFormat: string;
2442: function SHOWMODAL:INTEGER

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2443: Function ShowModalControl(aControl : TControl; BS : TFormBorderStyle; BI : TBorderIcons; WS :
  TWindowState; aColor : TColor; BW : Integer; Title : String; BeforeShowModal : TNotifyEvent) :
  TModalResult';
2444: Function
  ShowModalPanel(aPnl:TCustomPanel;Titl:String;ShowCloseIcn:Bool;BefShowModal:TNotifyEvent):TModalResult;
2445: function ShowWindow(C1: HWND; C2: integer): boolean;
2446: procedure ShowMemory //in Dialog
2447: function ShowMemory2: string;
2448: Function ShutdownOS : Boolean
2449: Function Signe( const X, Y : Extended) : Extended
2450: Function Sign( const X : Extended) : Integer
2451: Function Sin(e : Extended) : Extended;
2452: Function sinc( const x : Double) : Double
2453: Function SinJ( X : Float) : Float
2454: Function Size( const AFileName : String) : Integer
2455: function SizeOf: Longint;
2456: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer
2457: function SlashSep(const Path, S: String): String
2458: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended
2459: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
2460: Function SmallPoint(X, Y: Integer): TSmallPoint
2461: Function Soundex( const AText : string; ALengtH : TSoundexLength) : string
2462: Function SoundexCompare( const AText, AOther : string; ALengtH : TSoundexLength) : Integer
2463: Function SoundexInt( const AText : string; ALengtH : TSoundexIntLength) : Integer
2464: Function SoundexProc( const AText, AOther : string) : Boolean
2465: Function SoundexSimilar( const AText, AOther : string; ALengtH : TSoundexLength) : Boolean
2466: Function SoundexWord( const AText : string) : Word
2467: Function SourcePos : Longint
2468: function SourcePos:LongInt
2469: Function Split0( Str : string; const substr : string) : TStringList
2470: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
2471: Function SQLRequiresParams( const SQL : WideString) : Boolean
2472: Function Sqr(e : Extended) : Extended;
2473: Function Sqrt(e : Extended) : Extended;
2474: Function StartIP : String
2475: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean
2476: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2477: Function StartOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
2478: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime
2479: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
2480: Function StartOfAYear( const AYear : Word) : TDateTime
2481: Function StartOfTheDay( const AValue : TDateTime) : TDateTime
2482: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime
2483: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime
2484: Function StartOfTheYear( const AValue : TDateTime) : TDateTime
2485: Function StartsStr( const ASubText, AText : string) : Boolean
2486: Function StartsText( const ASubText, AText : string) : Boolean
2487: Function StartsWith( const ANSIStr, APattern : String) : Boolean
2488: Function StartsWith( const str : string; const sub : string) : Boolean
2489: Function StartsWithACE( const ABytes : TIdBytes) : Boolean
2490: Function StatusString( StatusCode : Integer) : string
2491: Function StdDev( const Data : array of Double) : Extended
2492: Function Stop : Float
2493: Function StopCount( var Counter : TJclCounter) : Float
2494: Function StoreColumns : Boolean
2495: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2496: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2497: Function StrAlloc( Size : Cardinal) : PChar
2498: function StrAlloc(Size: Cardinal): PChar
2499: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2500: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2501: Function StrBufSize( Str : PChar) : Cardinal
2502: function StrBufSize(const Str: PChar): Cardinal
2503: Function StrByteType( Str : PChar; Index : Cardinal) : TMbcsByteType
2504: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType
2505: Function StrCat( Dest : PChar; Source : PChar) : PChar
2506: function StrCat(Dest: PChar; const Source: PChar): PChar
2507: Function StrCharLength( Str : PChar) : Integer
2508: Function StrComp( Str1, Str2 : PChar) : Integer
2509: function StrComp(const Str1: PChar; const Str2: PChar): Integer
2510: Function StrCopy( Dest : PChar; Source : PChar) : PChar
2511: function StrCopy(Dest: PChar; const Source: PChar): PChar
2512: Function Stream_to_AnsiString( Source : TStream) : ansistring
2513: Function Stream_to_Base64( Source : TStream) : ansistring
2514: Function Stream_to_decimalbytes( Source : TStream) : string
2515: Function Stream2WideString( oStream : TStream) : WideString
2516: Function StreamtoAnsiString( Source : TStream) : ansistring
2517: Function StreamToByte( Source : TStream) : string
2518: Function StreamToDecimalbytes( Source : TStream) : string
2519: Function StreamtoOrd( Source : TStream) : string
2520: Function StreamToString( Source : TStream) : string
2521: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2522: Function StrEmpty( const sString : string) : boolean
2523: Function StrEnd( Str : PChar) : PChar
2524: function StrEnd(const Str: PChar): PChar
2525: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2526: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar
2527: Function StrGet(var S : String; I : Integer) : Char;
2528: Function StrGet2(S : String; I : Integer) : Char;

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2529: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2530: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2531: Function StrHtmlDecode( const AStr : String) : String
2532: Function StrHtmlEncode( const AStr : String) : String
2533: Function StrToBytes(const Value: String): TBytes;
2534: Function StrIComp( Str1, Str2 : PChar) : Integer
2535: Function StringOfChar(c : char;i : longInt) : String;
2536: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2537: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2538: Function StringRefCount(const s: String): integer;
2539: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2540: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2541: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2542: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2543: Function String.ToBoolean( const Ps : string) : Boolean
2544: function StringToColor(const S: string): TColor)
2545: function StringToCursor(const S: string): TCursor;
2546: function StringToGUID(const S: string): TGUID)
2547: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2548: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2549: Function StringWidth( S : string) : Integer
2550: Function StrInternetToDateTIme( Value : string) : TDateTIme
2551: Function StrIsDateTIme( const Ps : string) : Boolean
2552: Function StrIsFloatMoney( const Ps : string) : Boolean
2553: Function StrIsInteger( const S : string) : Boolean
2554: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2555: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2556: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2557: Function StrLen( Str : PChar) : Cardinal
2558: function StrLen(const Str: PChar): Cardinal)
2559: Function StrLessPrefix( const sString : string; const sPrefix : string) : string
2560: Function StrLessSuffix( const sString : string; const sSuffix : string) : string
2561: Function StrLIComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2562: Function StrLower( Str : PChar) : PChar
2563: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal) : PChar
2564: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar)
2565: Function StrNew( Str : PChar) : PChar
2566: function StrNew(const Str: PChar): PChar)
2567: Function StrNextChar( Str : PChar) : PChar
2568: Function StrPad( const sString : string; const sPad : string; const iLength : integer) : string
2569: Function StrParse( var sString : string; const sDelimiters : string) : string;
2570: Function StrParse1( var sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2571: Function StrPas( Str : PChar) : string
2572: function StrPas(const Str: PChar): string)
2573: Function StrPCopy( Dest : PChar; Source : string) : PChar
2574: function StrPCopy(Dest: PChar; const Source: string): PChar)
2575: Function StrPLCopy( Dest : PChar; Source : string; MaxLen : Cardinal) : PChar
2576: Function StrPos( Str1, Str2 : PChar) : PChar
2577: Function StrScan(const Str: PChar; Chr: Char): PChar)
2578: Function StrRScan(const Str: PChar; Chr: Char): PChar)
2579: Function StrToBcd( const AValue : string) : TBcd
2580: Function StrToBool( S : string) : Boolean
2581: Function StrToBoolDef( S : string; Default : Boolean) : Boolean
2582: Function StrToCard( const AStr : String) : Cardinal
2583: Function StrToConv( AText : string; out ATyPe : TConvType) : Double
2584: Function StrToCurr( S : string) : Currency
2585: function StrToCurr(const S: string): Currency)
2586: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2587: Function StrToDate( S : string) : TDateTIme;
2588: function StrToDate(const s : string): TDateTIme;
2589: Function StrToDateDef( S : string; Default : TDateTIme) : TDateTIme;
2590: Function StrToDateTIme( S : string) : TDateTIme;
2591: function StrToDateTIme(const S: string): TDateTIme)
2592: Function StrToDateTImeDef( S : string; Default : TDateTIme) : TDateTIme;
2593: Function StrToDay( const ADay : string) : Byte
2594: Function StrToFloat( S : string) : Extended;
2595: function StrToFloat(s: String): Extended;
2596: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2597: function StrToFloatDef(const S: string; const Default: Extended): Extended)
2598: Function StrToFloat( S : string) : Extended;
2599: Function StrToFloat2( S : string; FormatSettings : TFormatSettings) : Extended;
2600: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2601: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2602: Function StrToCurr( S : string) : Currency;
2603: Function StrToCurr2( S : string; FormatSettings : TFormatSettings) : Currency;
2604: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2605: Function StrToCurrDef2( S : string; Default : Currency; FormatSettings : TFormatSettings) : Currency;
2606: Function StrToTime2( S : string; FormatSettings : TFormatSettings) : TDateTIme;
2607: Function StrToTimeDef( S : string; Default : TDateTIme) : TDateTIme;
2608: Function StrToTimeDef2( S : string; Default : TDateTIme; FormatSettings:TFormatSettings):TDateTIme;
2609: Function TryStrToTime( S : string; Value : TDateTIme) : Boolean;
2610: Function StrToDateTIme( S : string) : TDateTIme;
2611: Function StrToDateTIme2( S : string; FormatSettings : TFormatSettings) : TDateTIme;
2612: Function StrToDateTImeDef( S : string; Default : TDateTIme) : TDateTIme;
2613: Function StrToFloatRegionalIndependent(AValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2614: Function StrToInt( S : string) : Integer
2615: function StrToInt(s: String): Longint;
2616: Function StrToInt64( S : string) : Int64
2617: function StrToInt64(s: String): int64;

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2618: Function StrToInt64Def( S : string; Default : Int64 ) : Int64
2619: function StrToInt64Def(const S: string; const Default: Int64):Int64)
2620: Function StrToIntDef( S : string; Default : Integer ) : Integer
2621: function StrToIntDef(const S: string; Default: Integer): Integer)
2622: function StrToIntDef(s: String; def: Longint): Longint;
2623: Function StrToMonth( const AMonth : string) : Byte
2624: Function StrToTime( S : string ) : TDateTime;
2625: function StrToTime(const S: string): TDateTime)
2626: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2627: Function StrToWord( const Value : String ) : Word
2628: Function StrToXmlDate( const DateStr : string; const Format : string ) : string
2629: Function StrToXmlDateTIme( const DateStr : string; const Format : string ) : string
2630: Function StrToXmlTime( const TimeStr : string; const Format : string ) : string
2631: Function StrUpper( Str : PChar ) : PChar
2632: Function StuffString( const AText : string; AStart, ALen : Cardinal; const ASubText : string ) : string
2633: Function Sum( const Data : array of Double ) : Extended
2634: Function SumFloatArray( const B : TDynFloatArray ) : Float
2635: Function SumInt( const Data : array of Integer ) : Integer
2636: Function SumOfSquares( const Data : array of Double ) : Extended
2637: Function SumPairProductFloatArray( const X, Y : TDynFloatArray ) : Float
2638: Function SumSquareDiffFloatArray( const B : TDynFloatArray; Diff : Float ) : Float
2639: Function SumSquareFloatArray( const B : TDynFloatArray ) : Float
2640: Function Supports( CursorOptions : TCursorOptions ) : Boolean
2641: Function SupportsClipboardFormat( AFormat : Word ) : Boolean
2642: Function SwapWord(w : word): word)
2643: Function SwapInt(i : integer): integer)
2644: Function SwapLong(L : longint): longint)
2645: Function Swap(i : integer): integer)
2646: Function SYDDepreciation( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
2647: Function SyncTime : Boolean
2648: Function SysErrorMessage( ErrorCode : Integer ) : string
2649: function SysErrorMessage(ErrorCode: Integer): string)
2650: Function SystemTimeToDateTIme( SystemTime : TSystemTime ) : TDateTime
2651: function SystemTimeToDateTIme(const SystemTime: TSystemTime): TDateTime;
2652: Function SysStringLen(const S: WideString): Integer; stdcall;
2653: Function TabRect( Index : Integer ) : TRect
2654: Function Tan( const X : Extended ) : Extended
2655: Function TaskMessageDlg(const Title,
    Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
2656: Function TaskMessageDlg1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx : Longint; DefaultButton : TMsgDlgBtn ) : Integer;
2657: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx : Longint; X, Y : Integer ) : Integer;
2658: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
2659: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons :
    TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
2660: Function TaskMessageDlgPosHelp1(const Title, Msg:string;DlgType: TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx:Longint; X,Y: Integer;const HelpFileName:string;DefaultButton:TMsgDlgBtn): Integer;
2661: Function TenToY( const Y : Float ) : Float
2662: Function TerminateApp( ProcessID : DWORD; Timeout : Integer ) : TJclTerminateAppResult
2663: Function TerminateTask( Wnd : HWND; Timeout : Integer ) : TJclTerminateAppResult
2664: Function TestBit( const Value : Byte; const Bit : TBitRange ) : Boolean;
2665: Function TestBit2( const Value : Shortint; const Bit : TBitRange ) : Boolean;
2666: Function TestBit3( const Value : Smallint; const Bit : TBitRange ) : Boolean;
2667: Function TestBit4( const Value : Word; const Bit : TBitRange ) : Boolean;
2668: Function TestBit5( const Value : Cardinal; const Bit : TBitRange ) : Boolean;
2669: Function TestBit6( const Value : Integer; const Bit : TBitRange ) : Boolean;
2670: Function TestBit7( const Value : Int64; const Bit : TBitRange ) : Boolean;
2671: Function TestBits( const Value, Mask : Byte ) : Boolean;
2672: Function TestBits1( const Value, Mask : Shortint ) : Boolean;
2673: Function TestBits2( const Value, Mask : Smallint ) : Boolean;
2674: Function TestBits3( const Value, Mask : Word ) : Boolean;
2675: Function TestBits4( const Value, Mask : Cardinal ) : Boolean;
2676: Function TestBits5( const Value, Mask : Integer ) : Boolean;
2677: Function TestBits6( const Value, Mask : Int64 ) : Boolean;
2678: Function TestFDIVInstruction : Boolean
2679: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
2680: Function TextExtent( const Text : string ) : TSize
2681: function TextHeight(Text: string): Integer;
2682: Function TextIsSame( const A1 : string; const A2 : string ) : Boolean
2683: Function TextStartsWith( const S, SubS : string ) : Boolean
2684: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatValue): Boolean)
2685: Function ConvInteger(i : integer):string;
2686: Function IntegerToText(i : integer):string;
2687: Function TEXTTOSHORTCUT( TEXT : String ) : TSHORCUT
2688: function TextWidth(Text: string): Integer;
2689: Function ThreadCount : integer
2690: function ThousandSeparator: char;
2691: Function Ticks : Cardinal
2692: Function Time : TDateTime
2693: function Time: TDateTime;
2694: function TimeGetTime: int64;
2695: Function TimeOf( const AValue : TDateTime ) : TDateTime
2696: function TimeSeparator: char;
2697: functionTimeStampToDateTIme(const TimeStamp: TTimeStamp): TDateTime
2698: FunctionTimeStampToMSEcs( TimeStamp : TTimeStamp ) : Comp
2699: functionTimeStampToMSEcs(const TimeStamp: TTimeStamp): Comp)
2700: Function TimeToStr( DateTIme : TDateTime ) : string;

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2701: function TimeToStr(const DateTime: TDateTime): string;
2702: Function TimeZoneBias : TDateTime
2703: Function ToCommon( const AValue : Double ) : Double
2704: function ToCommon(const AValue: Double): Double;
2705: Function Today : TDateTime
2706: Function ToggleBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2707: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2708: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2709: Function ToggleBit3( const Value : Word; const Bit : TBitRange ) : Word;
2710: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2711: Function ToggleBit5( const Value : Integer; const Bit : TBitRange ) : Integer;
2712: Function ToggleBit6( const Value : Int64; const Bit : TBitRange ) : Int64;
2713: function TokenComponentIdent:String
2714: Function TokenFloat : Extended
2715: function TokenFloat:Extended
2716: Function TokenInt : Longint
2717: function TokenInt:LongInt
2718: Function TokenString : string
2719: function TokenString:String
2720: Function TokenSymbolIs( const S : string ) : Boolean
2721: function TokenSymbolIs(S:String):Boolean
2722: Function Tomorrow : TDateTime
2723: Function ToRightOf( const pc : TControl; piSpace : Integer ) : Integer
2724: Function ToString : string
2725: Function TotalVariance( const Data : array of Double ) : Extended
2726: Function Trace2( AURL : string ) : string;
2727: Function TrackMenu( Button : TToolButton ) : Boolean
2728: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN ) : INTEGER
2729: Function TranslateURI( const URI : string ) : string
2730: Function TranslationMatchesLanguages( Exact : Boolean ) : Boolean
2731: Function TransparentStretchBlt( DstDC : HDC;DstX,DstY,DstW,DstH:Integer;SrcDC:HDC;SrcX,SrcY,SrcW,
  SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer ) : Boolean
2732: Function Trim( S : string ) : string;
2733: Function Trim( S : WideString ) : WideString;
2734: Function Trim(s : AnyString) : AnyString;
2735: Function TrimAllOf( ATrim, AText : String ) : String
2736: Function TrimLeft( S : string ) : string;
2737: Function TrimLeft( S : WideString ) : WideString;
2738: function TrimLeft(const S: string): string
2739: Function TrimRight( S : string ) : string;
2740: Function TrimRight( S : WideString ) : WideString;
2741: function TrimRight(const S: string): string
2742: function TrueBoolStrs: array of string
2743: Function Trunc(e : Extended) : Longint;
2744: Function Trunc64(e: extended): Int64;
2745: Function TruncPower( const Base, Exponent : Float ) : Float
2746: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily ) : Boolean;
2747: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily ) : Boolean;
2748: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2749: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime ) : Boolean
2750: Function TryEncodeDateMonthWeek( const AY,AMonth,AWeekOfMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean
2751: Function TryEncodeDateTime( const AYear,AMonth,ADay,AHour,AMin,ASec,AMilliSecond:Word; out
  AValue:TDateTime):Boolean
2752: Function TryEncodeDateWeek( const AY,AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean
2753: Function TryEncodeDayOfWeekInMonth( const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out
  AVal:TDateTime):Bool
2754: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2755: Function TryFloatToDate( Value : Extended; AResult : TDateTime ) : Boolean
2756: Function TryJulianDateToDate( const AValue : Double; out ADate : TDateTime ) : Boolean
2757: Function TryLock : Boolean
2758: Function TryModifiedJulianDateToDate( const AValue : Double; out ADate : TDateTime ) : Boolean
2759: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
  AMilliSecond : Word; out AResult : TDateTime ) : Boolean
2760: Function TryStrToBcd( const AValue : string; var Bcd : TBcd ) : Boolean
2761: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType ) : Boolean
2762: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2763: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2764: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2765: Function TryStrToInt( const S: AnsiString; var I: Integer): Boolean;
2766: Function TryStrToInt64( const S: AnsiString; var I: Int64): Boolean;
2767: Function TwoByteToWord( AByte1, AByte2 : Byte ) : Word
2768: Function TwoCharToWord( AChar1, AChar2 : Char ) : Word
2769: Function TwoToY( const Y : Float ) : Float
2770: Function UCS4StringToWideString( const S : UCS4String ) : WideString
2771: Function UIDL( const ADest : TStrings; const AMsgNum : Integer ) : Boolean
2772: function Unassigned: Variant;
2773: Function UndoLastChange( FollowChange : Boolean ) : Boolean
2774: function UniCodeToStr(Value: string): string;
2775: Function UnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean
2776: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean
2777: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal ) : TDateTime
2778: Function UnixPathToDosPath( const Path : string ) : string
2779: Function UnixToDateTime( const AValue : Int64 ) : TDateTime
2780: function UnixToDateTime(U: Int64): TDateTime;
2781: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint ) : HResult
2782: Function UnlockResource( ResData : HGLOBAL ) : LongBool
2783: Function UnlockVolume( var Handle : THandle ) : Boolean
2784: Function UnMaskString( Mask, Value : String ) : String
2785: function UpCase(ch : Char ) : Char;

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2786: Function UpCaseFirst( const AStr : string ) : string
2787: Function UpCaseFirstWord( const AStr : string ) : string
2788: Function UpdateAction( Action : TBasicAction ) : Boolean
2789: Function UpdateKind : TUpdateKind
2790: Function UPDATESTATUS : TUPDATESTATUS
2791: Function UpperCase( S : string ) : string
2792: Function Uppercase(s : AnyString) : AnyString;
2793: Function URLDecode( ASrc : string ) : string
2794: Function URLEncode( const ASrc : string ) : string
2795: Function UseRightToLeftAlignment : Boolean
2796: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment ) : Boolean
2797: Function UseRightToLeftReading : Boolean
2798: Function UTF8CharLength( Lead : Char ) : Integer
2799: Function UTF8CharSize( Lead : Char ) : Integer
2800: Function UTF8Decode( const S : UTF8String ) : WideString
2801: Function UTF8Encode( const WS : WideString ) : UTF8String
2802: Function UTF8LowerCase( const S : UTF8String ) : UTF8String
2803: Function Utf8ToAnsi( const S : UTF8String ) : string
2804: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer ) : string
2805: Function UTF8UpperCase( const S : UTF8String ) : UTF8String
2806: Function ValidFieldIndex( FieldIndex : Integer ) : Boolean
2807: Function ValidParentForm(control: TControl): TForm
2808: Function Value : Variant
2809: Function ValueExists( const Section, Ident : string ) : Boolean
2810: Function ValueOf( const Key : string ) : Integer
2811: Function ValueInSet(AValue: Variant; ASet: Variant): Boolean;
2812: Function VALUEOFKEY( const AKEY : VARIANT ) : VARIANT
2813: Function VarArrayFromStrings( Strings : TStrings ) : Variant
2814: Function VarArrayFromWideStrings( Strings : TWideStrings ) : Variant
2815: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2816: Function VarFMTBcd : TVarType
2817: Function VarFMTBcdCreate1 : Variant;
2818: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word ) : Variant;
2819: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word ) : Variant;
2820: Function VarFMTBcdCreate4( const ABCd : TBcd ) : Variant;
2821: Function Variance( const Data : array of Double ) : Extended
2822: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant
2823: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant
2824: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant
2825: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
2826: Function VariantGetElement1( const V : Variant; ii, i2 : integer ) : Variant;
2827: Function VariantGetElement2( const V : Variant; ii, i2, i3 : integer ) : Variant;
2828: Function VariantGetElement3( const V : Variant; ii, i2, i3, i4 : integer ) : Variant;
2829: Function VariantGetElement4( const V : Variant; ii, i2, i3, i4, i5 : integer ) : Variant;
2830: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant
2831: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant
2832: Function VariantNeg( const V1 : Variant ) : Variant
2833: Function VariantNot( const V1 : Variant ) : Variant
2834: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant
2835: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant
2836: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant
2837: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant
2838: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant
2839: function VarIsEmpty(const V: Variant): Boolean;
2840: Function VarIsFBcd( const AValue : Variant ) : Boolean;
2841: function VarIsNull(const V: Variant): Boolean;
2842: Function VarToBcd( const AValue : Variant ) : TBcd
2843: function VarType(const V: Variant): TVarType;
2844: Function VarType( const V : Variant ) : TVarType
2845: Function VarAsType( const V : Variant; AVarType : TVarType ) : Variant
2846: Function VarIsType( const V : Variant; AVarType : TVarType ) : Boolean;
2847: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType ) : Boolean;
2848: Function VarIsByRef( const V : Variant ) : Boolean
2849: Function VarIsEmpty( const V : Variant ) : Boolean
2850: Procedure VarCheckEmpty( const V : Variant )
2851: Function VarIsNull( const V : Variant ) : Boolean
2852: Function VarIsClear( const V : Variant ) : Boolean
2853: Function VarIsCustom( const V : Variant ) : Boolean
2854: Function VarIsOrdinal( const V : Variant ) : Boolean
2855: Function VarIsFloat( const V : Variant ) : Boolean
2856: Function VarIsNumeric( const V : Variant ) : Boolean
2857: Function VarIsStr( const V : Variant ) : Boolean
2858: Function VarToStr( const V : Variant ) : string
2859: Function VarToStrDef( const V : Variant; const ADefault : string ) : string
2860: Function VarToWideStr( const V : Variant ) : WideString
2861: Function VarToWideStrDef( const V : Variant; const ADefault : WideString ) : WideString
2862: Function VarToDateTIme( const V : Variant ) : TDateTIme
2863: Function VarFromDateTIme( const DateTIme : TDateTIme ) : Variant
2864: Function VarInRange( const AValue, AMin, AMax : Variant ) : Boolean
2865: Function VarEnsureRange( const AValue, AMin, AMax : Variant ) : Variant
2866: TVariantRelationship', '( vrEqual, vrLessThan, vrGreater Than, vrNotEqual )
2867: Function VarSameValue( const A, B : Variant ) : Boolean
2868: Function VarCompareValue( const A, B : Variant ) : TVariantRelationship
2869: Function VarIsEmptyParam( const V : Variant ) : Boolean
2870: Function VarIsError( const V : Variant; out AResult : HRESULT ) : Boolean;
2871: Function VarIsError1( const V : Variant ) : Boolean;
2872: Function VarAsError( AResult : HRESULT ) : Variant
2873: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant )
2874: Function VarIsArray( const A : Variant ) : Boolean;

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2875: Function VarIsArray( const A : Variant; AResolveByRef : Boolean) : Boolean;
2876: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType) : Variant
2877: Function VarArrayOf( const Values : array of Variant) : Variant
2878: Function VarArrayRef( const A : Variant) : Variant
2879: Function VarTypeIsValidArrayType( const AVarType : TVarType) : Boolean
2880: Function VarTypeIsValidElementType( const AVarType : TVarType) : Boolean
2881: Function VarArrayDimCount( const A : Variant) : Integer
2882: Function VarArrayLowBound( const A : Variant; Dim : Integer) : Integer
2883: Function VarArrayHighBound( const A : Variant; Dim : Integer) : Integer
2884: Function VarArrayLock( const A : Variant) : __Pointer
2885: Procedure VarArrayUnlock( const A : Variant)
2886: Function VarArrayGet( const A : Variant; const Indices : array of Integer) : Variant
2887: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer)
2888: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer)
2889: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer)
2890: Function Unassigned : Variant
2891: Function Null : Variant
2892: Function VectorAdd( const V1, V2 : TFloatPoint) : TFfloatPoint
2893: function VectorAdd(const V1,V2: TFfloatPoint): TFfloatPoint;
2894: Function VectorDot( const V1, V2 : TFfloatPoint) : Double
2895: function VectorDot(const V1,V2: TFfloatPoint): Double;
2896: Function VectorLengthSqr( const V : TFfloatPoint) : Double
2897: function VectorLengthSqr(const V: TFfloatPoint): Double;
2898: Function VectorMult( const V : TFfloatPoint; const s : Double) : TFfloatPoint
2899: function VectorMult(const V: TFfloatPoint; const s: Double): TFfloatPoint;
2900: Function VectorSubtract( const V1, V2 : TFfloatPoint) : TFfloatPoint
2901: function VectorSubtract(const V1,V2: TFfloatPoint): TFfloatPoint;
2902: Function Verify( AUserName : String) : String
2903: Function Versine( X : Float) : Float
2904: function VersionCheck: boolean;
2905: function VersionCheckAct: string;
2906: Function VersionLanguageId( const LangIdRec : TLangIdRec) : string
2907: Function VersionLanguageName( const LangId : Word) : string
2908: Function VersionResourceAvailable( const FileName : string) : Boolean
2909: Function Visible : Boolean
2910: function VolumeID(DriveChar: Char): string
2911: Function WaitFor( const AString : string) : string
2912: Function WaitFor( const TimeOut : Cardinal) : TJclWaitResult
2913: Function WaitFor1 : TWaitResult;
2914: Function WaitForData( Timeout : Longint) : Boolean
2915: Function WebColorNameToColor( WebColorName : string) : TColor
2916: Function WebColorStrToColor( WebColor : string) : TColor
2917: Function WebColorToRGB( WebColor : Integer) : Integer
2918: Function wGet(aURL, afile: string): boolean;
2919: Function wGet2(aURL, afile: string): boolean; //without file open
2920: Function WebGet(aURL, afile: string): boolean;
2921: Function WebExists: boolean; //alias to isinternet
2922: Function WeekOf( const AValue : TDateTime) : Word
2923: Function WeekOfTheMonth( const AValue : TDateTime) : Word;
2924: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word) : Word;
2925: Function WeekOfTheYear( const AValue : TDateTime) : Word;
2926: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word) : Word;
2927: Function WeeksBetween( const ANow, AThen : TDateTime) : Integer
2928: Function WeeksInAYear( const AYear : Word) : Word
2929: Function WeeksInYear( const AValue : TDateTime) : Word
2930: Function WeekSpan( const ANow, AThen : TDateTime) : Double
2931: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineStyle) : WideString
2932: Function WideCat( const x, y : WideString) : WideString
2933: Function WideCompareStr( S1, S2 : WideString) : Integer
2934: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2935: Function WideCompareText( S1, S2 : WideString) : Integer
2936: function WideCompareText(const S1: WideString; const S2: WideString): Integer
2937: Function WideCopy( const src : WideString; index, count : Integer) : WideString
2938: Function WideDequotedStr( const S : WideString; AQuote : WideChar) : WideString
2939: Function WideEqual( const x, y : WideString) : Boolean
2940: function WideFormat(const Format: WideString; const Args: array of const): WideString
2941: Function WideGreater( const x, y : WideString) : Boolean
2942: Function WideLength( const src : WideString) : Integer
2943: Function WideLess( const x, y : WideString) : Boolean
2944: Function WideLowerCase( S : WideString) : WideString
2945: function WideLowerCase(const S : WideString): WideString
2946: Function WidePos( const src, sub : WideString) : Integer
2947: Function WideQuotedStr( const S : WideString; Quote : WideChar) : WideString
2948: Function WideReplaceStr( const AText, AFromText, AToText : WideString) : WideString
2949: Function WideReplaceText( const AText, AFromText, AToText : WideString) : WideString
2950: Function WideSameStr( S1, S2 : WideString) : Boolean
2951: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
2952: Function WideSameText( S1, S2 : WideString) : Boolean
2953: function WideSameText(const S1: WideString; const S2: WideString): Boolean
2954: Function WideStringReplace(const S,OldPattern, NewPattern: WideString; Flags: TReplaceFlags): WideString
2955: Function WideStringToUCS4String( const S : WideString) : UCS4String
2956: Function WideUpperCase( S : WideString) : WideString
2957: Function Win32BackupFile( const FileName : string; Move : Boolean) : Boolean
2958: function Win32Check(RetVal: boolean): boolean
2959: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
2960: Function Win32RestoreFile( const FileName : string) : Boolean
2961: Function Win32Type : TI32Win32Type
2962: Function WinColor( const Color32 : TColor32) : TColor
2963: function winexec(FileName: pchar; showCmd: integer): integer;

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2964: Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
2965: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
2966: Function WithinPastDays( const ANow, AThen : TDateTime; const ADays : Integer ) : Boolean
2967: Function WithinPastHours( const ANow, AThen : TDateTime; const AHours : Int64 ) : Boolean
2968: Function WithinPastMilliSeconds( const ANow, AThen : TDateTime; const AMilliSeconds : Int64 ) : Boolean
2969: Function WithinPastMinutes( const ANow, AThen : TDateTime; const AMinutes : Int64 ) : Boolean
2970: Function WithinPastMonths( const ANow, AThen : TDateTime; const AMonths : Integer ) : Boolean
2971: Function WithinPastSeconds( const ANow, AThen : TDateTime; const ASconds : Int64 ) : Boolean
2972: Function WithinPastWeeks( const ANow, AThen : TDateTime; const AWeeks : Integer ) : Boolean
2973: Function WithinPastYears( const ANow, AThen : TDateTime; const AYears : Integer ) : Boolean
2974: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar ) : DWORD
2975: Function WordToStr( const Value : Word ) : String
2976: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint ) : Boolean
2977: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string ) : Boolean
2978: Procedure GetWordGridFormatValues( Proc : TGetStrProc )
2979: Function WorkArea : Integer
2980: Function WrapText( Line : string; MaxCol : Integer ) : string;
2981: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer ) : string;
2982: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint ) : HResult
2983: function Write(Buffer:String;Count:LongInt):LongInt
2984: Function WriteClient( var Buffer, Count : Integer ) : Integer
2985: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean ) : Cardinal
2986: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string ) : Boolean
2987: Function WriteString( const AString : string ) : Boolean
2988: Function WStrGet( var S : AnyString; I : Integer ) : WideChar;
2989: Function wvsprintf( Output : PChar; Format : PChar; arglist : va_list ) : Integer
2990: Function wsprintf( Output : PChar; Format : PChar ) : Integer
2991: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string ) : string
2992: Function XmlTimeToStr( const XmlTime : string; const Format : string ) : string
2993: Function XorDecode( const Key, Source : string ) : string
2994: Function XorEncode( const Key, Source : string ) : string
2995: Function XorString( const Key, Src : ShortString ) : ShortString
2996: Function Yield : Bool
2997: Function YearOf( const AValue : TDateTime ) : Word
2998: Function YearsBetween( const ANow, AThen : TDateTime ) : Integer
2999: Function YearSpan( const ANow, AThen : TDateTime ) : Double
3000: Function Yesterday : TDateTime
3001: Function YesNoDialog(const ACaption, AMsg: string): boolean;
3002: Function( const Name : string; Proc : TUserFunction)
3003: Function using Special_Scholz from 3.8.5.0
3004: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3005: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3006: Function FloatToTime2Dec(value:Extended):Extended;
3007: Function MinToStd(value:Extended):Extended;
3008: Function MinToStdAsString(value:Extended):string;
3009: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
3010: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3011: Function Round2Dec (zahl:Extended):Extended;
3012: Function GetAngle(x,y:Extended):Double;
3013: Function AddAngle(a1,a2:Double):Double;
3014:
3015: ****
3016: unit uPSI_StText;
3017: ****
3018: Function TextSeek( var F : TextFile; Target : LongInt ) : Boolean
3019: Function TextFileSize( var F : TextFile ) : LongInt
3020: Function TextPos( var F : TextFile ) : LongInt
3021: Function TextFlush( var F : TextFile ) : Boolean
3022:
3023: ****
3024: from JvVCLUtils;
3025: ****
3026: { Windows resources (bitmaps and icons) VCL-oriented routines }
3027: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3028: procedure DrawBitmapRectTransparent(Dest: TCanvas; DstX,
          DstY:Int;SrcRect:TRect;Bitmap:TBitmap;TransparColor:TColor);
3029: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstY, DstW,DstH: Integer; SrcRect: TRect;
          Bitmap: TBitmap; TransparentColor: TColor);
3030: function MakeBitmap(ResID: PChar): TBitmap;
3031: function MakeBitmapID(ResID: Word): TBitmap;
3032: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3033: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3034: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3035: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
          HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3037: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3038: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3039: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3040: {$IFDEF WIN32}
3041: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
          X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3043: {$ENDIF}
3044: function MakeIcon(ResID: PChar): TIcon;
3045: function MakeIconID(ResID: Word): TIcon;
3046: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3047: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3048: {$IFDEF WIN32}
3049: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3050: {$ENDIF}

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3051: { Service routines }
3052: procedure NotImplemented;
3053: procedure ResourceNotFound(ResID: PChar);
3054: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3055: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3056: function PaletteColor(Color: TColor): Longint;
3057: function WidthOf(R: TRect): Integer;
3058: function HeightOf(R: TRect): Integer;
3059: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3060: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3061: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3062: procedure Delay(MSecs: Longint);
3063: procedure CenterControl(Control: TControl);
3064: Function PaletteEntries( Palette : HPALETTE ) : Integer
3065: Function WindowClassName( Wnd : HWND ) : string
3066: Function ScreenWorkArea : TRect
3067: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3068: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3069: Procedure ActivateWindow( Wnd : HWND)
3070: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)
3071: Procedure CenterWindow( Wnd : HWND)
3072: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3073: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3074: Function DialogsToPixelsX( Dlgs : Word ) : Word
3075: Function DialogsToPixelsY( Dlgs : Word ) : Word
3076: Function PixelsToDialogsX( Pixs : Word ) : Word
3077: Function PixelsToDialogsY( Pixs : Word ) : Word
3078: {$IFDEF WIN32}
3079: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3080: function MakeVariant(const Values: array of Variant): Variant;
3081: {$ENDIF}
3082: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3083: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3084: function MsgDlg(const Msg:string; AType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3085: {$IFDEF CBuilder}
3086: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3087: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3088: {$ELSE}
3089: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3090: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3091: {$ENDIF CBuilder}
3092: function IsForegroundTask: Boolean;
3093: procedure MergeForm(ATControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3094: function GetAveCharSize(Canvas: TCanvas): TPoint;
3095: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3096: procedure FreeUnusedOle;
3097: procedure Beep;
3098: function GetWindowsVersionJ: string;
3099: function LoadDLL(const LibName: string): THandle;
3100: function RegisterServer(const ModuleName: string): Boolean;
3101: {$IFNDEF WIN32}
3102: function IsLibrary: Boolean;
3103: {$ENDIF}
3104: { Gradient filling routine }
3105: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3106: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3107: { String routines }
3108: function GetEnvVar(const VarName: string): string;
3109: function AnsiUpperFirstChar(const S: string): string;
3110: function StringToPChar(var S: string): PChar;
3111: function StrPAlloc(const S: string): PChar;
3112: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3113: function DropT(const S: string): string;
3114: { Memory routines }
3115: function AllocMemo(Size: Longint): Pointer;
3116: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3117: procedure FreeMemo(var fpBlock: Pointer);
3118: function GetMemoSize(fpBlock: Pointer): Longint;
3119: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3120: {$IFNDEF COMPILER5_UP}
3121: procedure FreeAndNil(var Obj);
3122: {$ENDIF}
3123: // from PNGLoader
3124: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3125: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3126: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3127: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3128: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3129: Function IsAnAllResult( const AModalResult : TModalResult) : Boolean
3130: Function InitWndProc( HWindow : HWND; Message, WParam : Longint; LParam : Longint ) : Longint
3131: AddConstantN('CTL3D_ALL','LongWord').SetUInt( $FFFF );
3132: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment )
3133: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint ) : Longint
3134: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer )
3135: Procedure SetIMEMode( hWnd : HWND; Mode : TIMEMode )
3136: Procedure SetIMEName( Name : TIMEName )
3137: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean ) : Boolean

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3138: Function Imm32GetContext( hWnd : HWND ) : HIMC
3139: Function Imm32ReleaseContext( hWnd : HWND; hImc : HIMC ) : Boolean
3140: Function Imm32GetConversionStatus( hImc : HIMC; var Conversion, Sentence : longword ) : Boolean
3141: Function Imm32SetConversionStatus( hImc : HIMC; Conversion, Sentence : longword ) : Boolean
3142: Function Imm32SetOpenStatus( hImc : HIMC; fOpen : Boolean ) : Boolean
3143: // Function Imm32SetCompositionWindow( hImc : HIMC; lpCompForm : PCOMPOSITIONFORM ) : Boolean
3144: //Function Imm32SetCompositionFont( hImc : HIMC; lpLogfont : PLOGFONTA ) : Boolean
3145: Function Imm32GetCompositionString(hImc:HIMC;dWordl:longword;lpBuf:string;dwBufLen:longint):Longint
3146: Function Imm32ISIME( hKl : longword ) : Boolean
3147: Function Imm32NotifyIME( hImc : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3148: Procedure DragDone( Drop : Boolean )
3149:
3150:
3151: //***** added from JVCLutils
3152: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3153: function ReplaceComponentReference(This, NewReference: TComponent; var VarReference: TComponent): Boolean;
3154: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3155: function IsPositiveResult(Value: TModalResult): Boolean;
3156: function IsNegativeResult(Value: TModalResult): Boolean;
3157: function IsAbortResult(const Value: TModalResult): Boolean;
3158: function StripAllFromResult(const Value: TModalResult): TModalResult;
3159: // returns either BrightColor or DarkColor depending on the luminance of AColor
3160: // This function gives the same result (AFAIK) as the function used in Windows to
3161: // calculate the desktop icon text color based on the desktop background color
3162: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3163: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3164:
3165: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3166:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3167:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3168:   var LinkName: string; Scale: Integer = 100); overload;
3169: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3170:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3171:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3172:   var LinkName: string; Scale: Integer = 100); overload;
3173: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3174:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3175: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3176:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3177:   Scale: Integer = 100): string;
3178: function HTMLPlainText(const Text: string): string;
3179: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3180:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3181: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3182:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3183: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3184: function HTMLPrepareText(const Text: string): string;
3185:
3186: ***** uPSI_JvAppUtils;
3187: Function GetDefaultSection( Component : TComponent ) : string
3188: Procedure GetDefaultIniData( Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean )
3189: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string )
3190: Function GetDefaultIniName : string
3191: //OnGetDefaultIniName,'TOnGetDefaultIniName';
3192: Function GetDefaultIniRegKey : string
3193: Function FindForm( FormClass : TFormClass ) : TForm
3194: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm
3195: Function ShowDialog( FormClass : TFormClass ) : Boolean
3196: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm
3197: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3198: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3199: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile )
3200: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string )
3201: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string )
3202: Function GetUniqueFileNameInDir( const Path, FileNameMask : string ) : string
3203: Function StrToInStr( const Str : string ) : string
3204: Function InIstrToStr( const Str : string ) : string
3205: Function IniReadString( IniFile : TObject; const Section, Ident, Default : string ) : string
3206: Procedure IniWriteString( IniFile : TObject; const Section, Ident, Value : string )
3207: Function IniReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint
3208: Procedure IniWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint )
3209: Function IniReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean
3210: Procedure IniWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean )
3211: Procedure IniReadSections( IniFile : TObject; Strings : TStrings )
3212: Procedure IniEraseSection( IniFile : TObject; const Section : string )
3213: Procedure InideleteKey( IniFile : TObject; const Section, Ident : string )
3214: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint )
3215: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint )
3216: Procedure AppTaskbarIcons( AppOnly : Boolean )
3217: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3218: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3219: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject )
3220: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject )
3221: ***** uPSI_JvDBUtils;
3222: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject
3223: Function IsDataSetEmpty( DataSet : TDataSet ) : Boolean
3224: Procedure RefreshQuery( Query : TDataSet )
3225: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean
3226: Function DataSetSectionName( DataSet : TDataSet ) : string

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3227: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObject; const Section : string)
3228: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObject;const Section:string;RestoreVisible:Bool)
3229: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant;
  Options: TLocateOptions) : Boolean
3230: Procedure SaveFields( DataSet : TDataSet; IniFile : TIIniFile)
3231: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIIniFile; RestoreVisible : Boolean)
3232: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean)
3233: Function ConfirmDelete : Boolean
3234: Procedure ConfirmDataSetCancel( DataSet : TDataSet)
3235: Procedure CheckRequiredField( Field : TField)
3236: Procedure CheckRequiredFields( const Fields : array of TField)
3237: Function DateToSQL( Value : TDateTime ) : string
3238: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string ) : string
3239: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string ) : string
3240: Function FormatSQLNumericRange( const FieldName:string;LowVal,HighVal,LowEmpty,
  HighEmpty:Double;Inclusive:Bool):string
3241: Function StrMaskSQL( const Value : string ) : string
3242: Function FormatSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3243: Function FormatAnsiSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3244: Procedure _DBError( const Msg : string )
3245: Const ('TrueExpr','String '0=0
3246: Const ('sdfStandard16','String #####mm//dd//yyyy####')
3247: Const ('sdfStandard32','String #####dd/mm/yyyy####')
3248: Const ('sdfOracle','String ''TO_DATE('''dd/mm/YYYY''', ''DD/MM/YYYY'')"')
3249: Const ('sdfInterbase','String ''CAST('''mm"/dd"/YYYY''' AS DATE)"')
3250: Const ('sdfMSSQL','String ''CONVERT(datetime, '''mm"/dd"/yyyy''' , 103)"')
3251: AddTypeS('Largeint', 'Longint'
3252: addTypeS('TIEException', 'ErNoImport, erCannotImport, erInvalidType, ErInternalError, '+
3253:   'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3254:   'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3255:   'erVersionError, ErDivideByZero, ErMathError,erCouldNotCallProc, erOutOfRecordRange, '+
3256:   'erOutOfMemory,erException,erNullPointerException,erNullVariantError,erInterfaceNotSupportedError);
3257: (*-----*)
3258: procedure SIRegister_JclIniFiles(CL: TPSPascalCompiler);
3259: begin
3260:   Function JIniReadBool( const FileName, Section, Line : string ) : Boolean
3261:   Function JIniReadInteger( const FileName, Section, Line : string ) : Integer
3262:   Function JIniReadString( const FileName, Section, Line : string ) : string
3263:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3264:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3265:   Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3266:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3267:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3268: end;
3269:
3270: (* === compile-time registration functions === *)
3271: (*-----*)
3272: procedure SIRegister_JclDateTime(CL: TPSPascalCompiler);
3273: begin
3274:   'UnixTimeStart','LongInt'( 25569 );
3275:   Function JEncodeDate( const Year : Integer; Month, Day : Word ) : TDateTime
3276:   Procedure JDecodeDate( const Date : TDateTime; var Year, Month, Day : Word );
3277:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word );
3278:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer );
3279:   Function CenturyOfDate( const Date : TDateTime ) : Integer
3280:   Function CenturyBaseYear( const Date : TDateTime ) : Integer
3281:   Function DayOfDate( const Date : TDateTime ) : Integer
3282:   Function MonthOfDay( const Date : TDateTime ) : Integer
3283:   Function YearOfDate( const Date : TDateTime ) : Integer
3284:   Function JDdayOfTheYear( const Date : TDateTime; var Year : Integer ) : Integer;
3285:   Function DayOfTheYear1( const Date : TDateTime ) : Integer;
3286:   Function DayOfTheYearToDate( const Year, Day : Integer ) : TDateTime
3287:   Function HourOfTime( const Date : TDateTime ) : Integer
3288:   Function MinuteOfTime( const Date : TDateTime ) : Integer
3289:   Function SecondOfTime( const Date : TDateTime ) : Integer
3290:   Function GetISOYearNumberOfDays( const Year : Word ) : Word
3291:   Function IsISOYear( const Year : Word ) : Boolean;
3292:   Function IsISOYear1( const Date : TDateTime ) : Boolean;
3293:   Function ISODayOfWeek( const Date : TDateTime ) : Word
3294:   Function JISOWeekNumber( Date : TDateTime; var YearOfWeekNumber, WeekDay : Integer ) : Integer;
3295:   Function ISOWeekNumber1( Date : TDateTime; var YearOfWeekNumber : Integer ) : Integer;
3296:   Function ISOWeekNumber2( Date : TDateTime ) : Integer;
3297:   Function ISOWeekToDate( const Year, Week, Day : Integer ) : TDateTime
3298:   Function JISLeapYear( const Year : Integer ) : Boolean;
3299:   Function IsLeapYear1( const Date : TDateTime ) : Boolean;
3300:   Function JDdaysInMonth( const Date : TDateTime ) : Integer
3301:   Function Make4DigitYear( Year, Pivot : Integer ) : Integer
3302:   Function JMakeYear4Digit( Year, WindowsillYear : Integer ) : Integer
3303:   Function JEasterSunday( const Year : Integer ) : TDateTime // TDosDateTime', 'Integer
3304:   Function JFormatDateTime( Form : string; Date : TDateTime ) : string
3305:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64 ) : Boolean;
3306:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime ) : Boolean;
3307:   Function HoursToMSecs( Hours : Integer ) : Integer
3308:   Function MinutesToMSecs( Minutes : Integer ) : Integer
3309:   Function SecondsToMSecs( Seconds : Integer ) : Integer
3310:   Function TimeOfDateToSeconds( Date : TDateTime ) : Integer
3311:   Function TimeOfDateTimeToMSecs( Date : TDateTime ) : Integer
3312:   Function DateTimeToLocalDateTime( Date : TDateTime ) : TDateTime
3313:   Function LocalDateTimeToDate( Date : TDateTime ) : TDateTime

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3314: Function DateTimeToDosDateTime( const DateTime : TDateTime ) : TDosDateTime
3315: Function JDATimeToFileTime( DateTime : TDateTime ) : TFileTime
3316: Function JDATimeToSystemTime( DateTime : TDateTime ) : TSystemTime;
3317: Procedure JDATimeToSystemTime1( DateTime : TDateTime; var SysTime : TSystemTime );
3318: Function LocalDateTimeToFileTime( DateTime : TDateTime ) : FileTime
3319: Function DosDateTimeToDateTime( const DosTime : TDosDateTime ) : TDateTime
3320: Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3321: Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime );
3322: Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3323: Function DosDateTimeToStr( DateTime : Integer ) : string
3324: Function JFileTimeToDateTime( const FileTime : TFileTime ) : TDateTime
3325: Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3326: Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3327: Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word );
3328: Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3329: Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime );
3330: Function FileTimeToStr( const FileTime : TFileTime ) : string
3331: Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3332: Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3333: Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime );
3334: Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3335: Function CreationDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3336: Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3337: Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3338: TJclUnixTime32', 'Longword
3339: Function JDATimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3340: Function JUnixTimeToDateTime( const UnixTime : TJclUnixTime32 ) : TDateTime
3341: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3342: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3343: Function JNullStamp : TTimeStamp
3344: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3345: Function JEQualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3346: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3347: Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3348: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3349: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3350: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3351: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3352: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3353: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3354: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3355: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3356: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3357: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3358: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3359: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3360: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3361: FindClass('TOBJECT'), 'EJclDateTimeError
3362: end;
3363:
3364: procedure SIRegister_JclMiscel2(CL: TPSPascalCompiler);
3365: begin
3366:   Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3367:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3368:   Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3369:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3370:   Function WinExec32AndRedirectOutput( const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3371:   TJclKillLevel', '( k1Normal, k1NoSignal, k1TimeOut )
3372:   Function ExitWindows( ExitCode : Cardinal ) : Boolean
3373:   Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3374:   Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3375:   Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3376:   Function RebootOS( KillLevel : TJclKillLevel ) : Boolean
3377:   Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3378:   Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3379:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean ):Boolean;
3380:   Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;
3381:   Function AbortShutDown : Boolean;
3382:   Function AbortShutDown1( const MachineName : string ) : Boolean;
3383:   TJclAllowedPowerOperation', '( apoHibernate, apoShutdown, apoSuspend )
3384:   TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3385:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3386:   FindClass('TOBJECT'), 'EJclCreateProcessError
3387:   Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
3388:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar );
3389:   // with Add(EJclCreateProcessError) do
3390:   end;
3391:
3392:
3393: procedure SIRegister_JclAnsiStrings(CL: TPSPascalCompiler);
3394: begin
3395:   //''AnsiSigns','Set').SetSet(['-', '+']);
3396:   'C1_UPPER','LongWord( $0001);
3397:   'C1_LOWER','LongWord( $0002);
3398:   'C1_DIGIT','LongWord').SetUInt( $0004);
3399:   'C1_SPACE','LongWord').SetUInt( $0008);
3400:   'C1_PUNCT','LongWord').SetUInt( $0010);
3401:   'C1_CNTRL','LongWord').SetUInt( $0020);

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3402: 'C1_BLANK','LongWord').SetUInt( $0040);
3403: 'C1_XDIGIT','LongWord').SetUInt( $0080);
3404: 'C1_ALPHA','LongWord').SetUInt( $0100);
3405: AnsiChar', 'Char
3406: Function StrIsAlpha( const S : AnsiString) : Boolean
3407: Function StrIsAlphaNum( const S : AnsiString) : Boolean
3408: Function StrIsAlphaNumUnderscore( const S : AnsiString) : Boolean
3409: Function StrContainsChars( const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean) : Boolean
3410: Function StrConsistsOfNumberChars( const S : AnsiString) : Boolean
3411: Function StrIsDigit( const S : AnsiString) : Boolean
3412: Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet) : Boolean
3413: Function StrSame( const S1, S2 : AnsiString) : Boolean
3414: //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar) : AnsiString
3415: Function StrCharPosLower( const S : AnsiString; CharPos : Integer) : AnsiString
3416: Function StrCharPosUpper( const S : AnsiString; CharPos : Integer) : AnsiString
3417: Function StrDoubleQuote( const S : AnsiString) : AnsiString
3418: Function StrEnsureNoPrefix( const Prefix, Text : AnsiString) : AnsiString
3419: Function StrEnsureNoSuffix( const Suffix, Text : AnsiString) : AnsiString
3420: Function StrEnsurePrefix( const Prefix, Text : AnsiString) : AnsiString
3421: Function StrEnsureSuffix( const Suffix, Text : AnsiString) : AnsiString
3422: Function StrEscapedToString( const S : AnsiString) : AnsiString
3423: Function JStrLower( const S : AnsiString) : AnsiString
3424: Procedure StrLowerInPlace( var S : AnsiString)
3425: //Procedure StrLowerBuff( S : PAnsiChar)
3426: Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;ToIndex,FromIndex,Count:Integer;
3427: Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar) : AnsiString
3428: Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar) : AnsiString
3429: Function StrProper( const S : AnsiString) : AnsiString
3430: //Procedure StrProperBuff( S : PAnsiChar)
3431: Function StrQuote( const S : AnsiString; C : AnsiChar) : AnsiString
3432: Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3433: Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3434: Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3435: Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar) : AnsiString
3436: Function StrReplaceChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString
3437: Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString;
3438: Function StrRepeat( const S : AnsiString; Count : Integer) : AnsiString
3439: Function StrRepeatLength( const S : AnsiString; const L : Integer) : AnsiString
3440: Function StrReverse( const S : AnsiString) : AnsiString
3441: Procedure StrReverseInPlace( var S : AnsiString)
3442: Function StrSingleQuote( const S : AnsiString) : AnsiString
3443: Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet) : AnsiString
3444: Function StrStringToEscaped( const S : AnsiString) : AnsiString
3445: Function StrStripNonNumberChars( const S : AnsiString) : AnsiString
3446: Function StrToHex( const Source : AnsiString) : AnsiString
3447: Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar) : AnsiString
3448: Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3449: Function StrTrimCharRight( const S : AnsiString; C : AnsiChar) : AnsiString
3450: Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3451: Function StrTrimQuotes( const S : AnsiString) : AnsiString
3452: Function JStrUpper( const S : AnsiString) : AnsiString
3453: Procedure StrUpperInPlace( var S : Ansistring)
3454: //Procedure StrUpperBuff( S : PAnsiChar)
3455: Function StrOemToAnsi( const S : AnsiString) : AnsiString
3456: Function StrAnsitoOem( const S : AnsiString) : AnsiString
3457: Procedure StrAddRef( var S : AnsiString)
3458: Function StrAllocSize( const S : AnsiString) : Longint
3459: Procedure StrDecRef( var S : AnsiString)
3460: //Function StrLen( S : PAnsiChar) : Integer
3461: Function StrLength( const S : Ansistring) : Longint
3462: Function StrRefCount( const S : AnsiString) : Longint
3463: Procedure StrResetLength( var S : AnsiString)
3464: Function StrCharCount( const S : AnsiString; C : AnsiChar) : Integer
3465: Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet) : Integer
3466: Function StrStrCount( const S, SubS : AnsiString) : Integer
3467: Function StrCompare( const S1, S2 : AnsiString) : Integer
3468: Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer) : Integer
3469: //Function StrFillChar( const C : AnsiChar; Count : Integer) : AnsiString;
3470: Function StrFillChar1( const C : Char; Count : Integer) : AnsiString;
3471: Function StrFillChar(const C: Char; Count: Integer): string';
3472: Function IntFillChar(const I: Integer; Count: Integer): string';
3473: Function ByteFillChar(const B: Byte; Count: Integer): string';
3474: Function ArrFillChar(const AC: Char; Count: Integer): TCharArray';
3475: Function ArrByteFillChar(const AB: Char; Count: Integer): TByteArray;
3476: Function StrFind( const Substr, S : AnsiString; const Index : Integer) : Integer
3477: //Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString) : Boolean
3478: Function StrIndex( const S : AnsiString; const List : array of AnsiString) : Integer
3479: Function StrLastPos( const SubStr, S : AnsiString) : Integer
3480: Function StrIPos( const SubStr, S : AnsiString) : Integer
3481: Function StrIsOneOf( const S : AnsiString; const List : array of AnsiString) : Boolean
3482: Function StrLastPos( const SubStr, S : AnsiString) : Integer
3483: Function StrMatch( const Substr, S : AnsiString; const Index : Integer) : Integer
3484: Function StrMatches( const Substr, S : AnsiString; const Index : Integer) : Boolean
3485: Function StrNIPos( const S, SubStr : AnsiString; N : Integer) : Integer
3486: Function StrNPos( const S, SubStr : AnsiString; N : Integer) : Integer
3487: Function StrPrefixIndex( const S : AnsiString; const Prefixes : array of AnsiString) : Integer
3488: Function StrSearch( const Substr, S : AnsiString; const Index : Integer) : Integer
3489: //Function StrAfter( const SubStr, S : AnsiString) : AnsiString
3490: //Function StrBefore( const SubStr, S : AnsiString) : AnsiString

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3491: Function StrBetween( const S : AnsiString; const Start, Stop : AnsiChar ) : AnsiString
3492: Function StrChopRight( const S : AnsiString; N : Integer ) : AnsiString
3493: Function StrLeft( const S : AnsiString; Count : Integer ) : AnsiString
3494: Function StrMid( const S : AnsiString; Start, Count : Integer ) : AnsiString
3495: Function StrRestOf( const S : AnsiString; N : Integer ) : AnsiString
3496: Function StrRight( const S : AnsiString; Count : Integer ) : AnsiString
3497: Function CharEqualNoCase( const C1, C2 : AnsiChar ) : Boolean
3498: Function CharIsAlpha( const C : AnsiChar ) : Boolean
3499: Function CharIsAlphaNum( const C : AnsiChar ) : Boolean
3500: Function CharIsBlank( const C : AnsiChar ) : Boolean
3501: Function CharIsControl( const C : AnsiChar ) : Boolean
3502: Function CharIsDelete( const C : AnsiChar ) : Boolean
3503: Function CharIsDigit( const C : AnsiChar ) : Boolean
3504: Function CharIsLower( const C : AnsiChar ) : Boolean
3505: Function CharIsNumberChar( const C : AnsiChar ) : Boolean
3506: Function CharIsPrintable( const C : AnsiChar ) : Boolean
3507: Function CharIsPunctuation( const C : AnsiChar ) : Boolean
3508: Function CharIsReturn( const C : AnsiChar ) : Boolean
3509: Function CharIsSpace( const C : AnsiChar ) : Boolean
3510: Function CharIsUpper( const C : AnsiChar ) : Boolean
3511: Function CharIsWhiteSpace( const C : AnsiChar ) : Boolean
3512: Function CharType( const C : AnsiChar ) : Word
3513: Function CharHex( const C : AnsiChar ) : Byte
3514: Function CharLower( const C : AnsiChar ) : AnsiChar
3515: Function CharUpper( const C : AnsiChar ) : AnsiChar
3516: Function CharToggleCase( const C : AnsiChar ) : AnsiChar
3517: Function CharPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3518: Function CharLastPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3519: Function CharIPos( const S : AnsiString; C : AnsiChar; const Index : Integer ) : Integer
3520: Function CharReplace( var S : AnsiString; const Search, Replace : AnsiChar ) : Integer
3521: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3522: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3523: Function StringsToStr( const List:TStrings;const Sep:AnsiString;const AllowEmptyString:Bool):AnsiString;
3524: Procedure TrimStrings( const List : TStrings; DeleteIfEmpty : Boolean )
3525: Procedure TrimStringsRight( const List : TStrings; DeleteIfEmpty : Boolean )
3526: Procedure TrimStringsLeft( const List : TStrings; DeleteIfEmpty : Boolean )
3527: Function AddStringToStrings( const S:AnsiString;Strings:TStrings; const Unique:Boolean ):Boolean
3528: Function BooleanToStr( B : Boolean ) : AnsiString
3529: Function FileToString( const FileName : AnsiString ) : AnsiString
3530: Procedure StringToFile( const FileName, Contents : AnsiString; Append : Boolean )
3531: Function StrToken( var S : AnsiString; Separator : AnsiChar ) : AnsiString
3532: Procedure StrTokens( const S : AnsiString; const List : TStrings )
3533: Procedure StrTokenToStrings( S : AnsiString; Separator : AnsiChar; const List : TStrings )
3534: //Function StrWord( var S : PAnsiChar; out Word : AnsiString ) : Boolean
3535: Function StrToFloatSafe( const S : AnsiString ) : Float
3536: Function StrToIntSafe( const S : AnsiString ) : Integer
3537: Procedure StrNormIndex( const Strlen : Integer; var Index : Integer; var Count : Integer );
3538: Function ArrayOf( List : TStrings ) : TDynStringArray;
3539: EJclStringError', 'EJclError
3540: function IsClass(Address: TObject): Boolean;
3541: function IsObject(Address: TObject): Boolean;
3542: // Console Utilities
3543: //function ReadKey: Char;
3544: function IntToStrZeroPad(Value, Count: Integer): AnsiString;
3545: function JclGUIDToString(const GUID: TGUID): string;
3546: function JclStringToGUID(const S: string): TGUID;
3547:
3548: end;
3549:
3550:
3551: ***** uPSI_JvDBUtil;
3552: Procedure ExecuteSQLScript(Base:TDataBase; const Script: string; const Commit:TCommit;OnProgress:TOnProgress; const UserData : Integer)
3553: Function GetQueryResult( const DatabaseName, SQL : string ) : Variant
3554: Function GetStoredProcResult( const ADatabaseName, AStoredProcName : string; AParams : array of Variant; const AResultName : string ) : Variant
3555: //Function StrFieldDesc( Field : FLDesc ) : string
3556: Function Var2Type( V : Variant; const VarType : Integer ) : Variant
3557: Procedure CopyRecord( DataSet : TDataSet )
3558: //Procedure AddReference( Tbl : TTable; RefName : string; RefField : Word; MasterTable : string; MasterField : Word; ModOp, DelOp : RINTQual )
3559: Procedure AddMasterPassword( Table : TTable; pswd : string )
3560: Procedure PackTable( Table : TTable )
3561: Procedure PackEncryptedTable( Table : TTable; pswd : string )
3562: Function EncodeQuotes( const S : string ) : string
3563: Function Cmp( const S1, S2 : string ) : Boolean
3564: Function SubStr( const S : string; const Index : Integer; const Separator : string ) : string
3565: Function SubStrEnd( const S : string; const Index : Integer; const Separator : string ) : string
3566: Function ReplaceString( S : string; const OldPattern, NewPattern : string ) : string
3567: Procedure GetXYByPos( const S : string; const Pos : Integer; var X, Y : Integer )
3568: *****uPSI_JvJvBDEUtils;*****
3569: //JvBDEUtils
3570: Function CreateDbLocate : TJvLocateObject
3571: //Function CheckOpen( Status : DBIResult ) : Boolean
3572: Procedure FetchAllRecords( DataSet : TBDEDataSet )
3573: Function TransActive( Database : TDatabase ) : Boolean
3574: Function AsyncQrySupported( Database : TDatabase ) : Boolean
3575: Function GetQuoteChar( Database : TDatabase ) : string
3576: Procedure ExecuteQuery( const DbName, QueryText : string )

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3577: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string)
3578: Function FieldLogicMap( FldType : TFieldType) : Integer
3579: Function FieldSubtypeMap( FldType : TFieldType) : Integer Value : string; Buffer : Pointer)
3580: Function GetAliasPath( const AliasName : string) : string
3581: Function IsDirectory( const DatabaseName : string) : Boolean
3582: Function GetBdeDirectory : string
3583: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent) : Boolean
3584: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value, FieldName : string) : Boolean
3585: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value, FieldName : string) : Boolean
3586: Function DataSetRecNo( DataSet : TDataSet) : Longint
3587: Function DataSetRecordCount( DataSet : TDataSet) : Longint
3588: Function DataSetPositionStr( DataSet : TDataSet) : string
3589: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean)
3590: Function CurrentRecordDeleted( DataSet : TBDEDataSet) : Boolean
3591: Function IsFilterApplicable( DataSet : TDataSet) : Boolean
3592: Function IsBookmarkStable( DataSet : TBDEDataSet) : Boolean
3593: Procedure SetIndex( Table : TTable; const IndexFieldNames : string)
3594: Procedure RestoreIndex( Table : TTable)
3595: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const)
3596: Procedure PackTable( Table : TTable)
3597: Procedure ReindexTable( Table : TTable)
3598: Procedure BdeFlushBuffers
3599: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer) : Pointer
3600: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string)
3601: Procedure DbNotSupported
3602: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint)
3603: Procedure ExportDataSetEx( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter:Char;MaxRecordCount:Longint);
3604: Procedure
  ImportDataSet(Source:TBDEDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3605: Procedure InitRSRUN(Database: TDatabase;const ConName:string; ConType:Integer;const ConServer:string);
3606: ****uPSI_JvDateUtil;
3607: function CurrentYear: Word;
3608: function IsLeapYear(AYear: Integer): Boolean;
3609: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3610: function FirstDayOfPrevMonth: TDateTime;
3611: function LastDayOfPrevMonth: TDateTime;
3612: function FirstDayOfNextMonth: TDateTime;
3613: function ExtractDay(ADate: TDateTime): Word;
3614: function ExtractMonth(ADate: TDateTime): Word;
3615: function ExtractYear(ADate: TDateTime): Word;
3616: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3617: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3618: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3619: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3620: function Validate(ADate: TDateTime): Boolean;
3621: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
3622: function MonthsBetween(Date1, Date2: TDateTime): Double;
3623: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
3624: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
3625: function DaysBetween(Date1, Date2: TDateTime): Longint;
3626: { The same as previous but if Date2 < Date1 result = 0 }
3627: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3628: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3629: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3630: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3631: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3632: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3633: { String to date conversions }
3634: function GetDateOrder(const DateFormat: string): TDateOrder;
3635: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3636: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3637: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3638: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3639: function DefDateFormat(FourDigitYear: Boolean): string;
3640: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3641: -----
3642: ***** JvUtils*****
3643: { GetWordOnPos returns Word from string, S, on the cursor position, P}
3644: function GetWordOnPos(const S: string; const P: Integer): string;
3645: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3646: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3647: { SubStr returns substring from string, S, separated with Separator string}
3648: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3649: { SubStrEnd same to previous function but Index numerated from the end of string }
3650: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3651: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3652: function SubWord(P: PChar; var P2: PChar): string;
3653: { NumberByWord returns the text representation of
3654:   the number, N, in normal russian language. Was typed from Monitor magazine }
3655: function NumberByWord(const N: Longint): string;
3656: // function CurrencyByWord(Value : Currency) : string; GetLineByPos returns Line number, there
3657: //the symbol Pos is pointed. Lines separated with #13 symbol }
3658: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3659: { GetXYByPos is same to previous function, but returns X position in line too}
3660: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3661: { ReplaceString searches for all substrings, OldPattern,in a string, S, replaces them with NewPattern }
3662: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;

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3663: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3664: function ConcatSep(const S, S2, Separator: string): string;
3665: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3666: function ConcatLeftSep(const S, S2, Separator: string): string;
3667: { MinimizeString truns long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3668: function MinimizeString(const S: string; const MaxLen: Integer): string;
3669: { Next 4 function for russian chars transliterating.
3670:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3671: procedure Dos2Win(var S: string);
3672: procedure Win2Dos(var S: string);
3673: function Dos2WinRes(const S: string): string;
3674: function Win2DosRes(const S: string): string;
3675: function Win2Koi(const S: string): string;
3676: { Spaces returns string consists on N space chars }
3677: function Spaces(const N: Integer): string;
3678: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3679: function AddSpaces(const S: string; const N: Integer): string;
3680: { function LastDate for russian users only } { returns date relative to current date: '' }
3681: function LastDate(const Dat: TDateTime): string;
3682: { CurrencyToStr format currency, Cur, using ffcurrency float format}
3683: function CurrencyToStr(const Cur: currency): string;
3684: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3685: function Cmp(const S1, S2: string): Boolean;
3686: { StringCat add S2 string to S1 and returns this string }
3687: function StringCat(var S1: string; S2: string): string;
3688: { HasChar returns True, if Char, Ch, contains in string, S }
3689: function HasChar(const Ch: Char; const S: string): Boolean;
3690: function HasAnyChar(const Chars: string; const S: string): Boolean;
3691: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3692: function CountOfChar(const Ch: Char; const S: string): Integer;
3693: function DefStr(const S: string; Default: string): string;
3694: {**** files routines}
3695: { GetWinDir returns Windows folder name }
3696: function GetWinDir: TFileName;
3697: function GetSysDir: String;
3698: { GetTempDir returns Windows temporary folder name }
3699: function GetTempDir: string;
3700: { GenTempFileName returns temporary file name on drive, there FileName is placed }
3701: function GenTempFileName(FileName: string): string;
3702: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3703: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3704: { ClearDir clears folder Dir }
3705: function ClearDir(const Dir: string): Boolean;
3706: { DeleteDir clears and than delete folder Dir }
3707: function DeleteDir(const Dir: string): Boolean;
3708: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3709: function FileEquMask(FileName, Mask: TFileName): Boolean;
3710: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3711:   Masks must be separated with comma (';') }
3712: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3713: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3714: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3715: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3716: { FileGetInfo finds SearchRec record for specified file attributes}
3717: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3718: { HasSubFolder returns True, if folder APATH contains other folders }
3719: function HasSubFolder(APATH: TFileName): Boolean;
3720: { IsEmptyFolder returns True, if there are no files or folders in given folder, APATH}
3721: function IsEmptyFolder(APATH: TFileName): Boolean;
3722: { AddSlash add slash Char to Dir parameter, if needed }
3723: procedure AddSlash(var Dir: TFileName);
3724: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3725: function AddSlash2(const Dir: TFileName): string;
3726: { AddPath returns FileName with Path, if FileName not contain any path }
3727: function AddPath(const FileName, Path: TFileName): TFileName;
3728: function AddPaths(const PathList, Path: string): string;
3729: function ParentPath(const Path: TFileName): TFileName;
3730: function FindInPath(const FileName, PathList: string): TFileName;
3731: function FindInPaths(const fileName, paths: String): String;
3732: {$IFDEF BCB1}
3733: { BrowseForFolder displays Browse For Folder dialog }
3734: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3735: {$ENDIF BCB1}
3736: Function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3737: Function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3738: Function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3739: Function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3740:
3741: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3742: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3743: { HasParam returns True, if program running with specified parameter, Param }
3744: function HasParam(const Param: string): Boolean;
3745: function HasSwitch(const Param: string): Boolean;
3746: function Switch(const Param: string): string;
3747: { ExePath returns ExtractFilePath(ParamStr(0)) }
3748: function ExePath: TFileName;
3749: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;

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3750: function FileTimeToDateTIme(const FT: TFileTime): TDateTime;
3751: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3752: {**** Graphic routines }
3753: { TTFontSelected returns True, if True Type font is selected in specified device context }
3754: function TTFontSelected(const DC: HDC): Boolean;
3755: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3756: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3757: {**** Windows routines }
3758: { SetWindowTop put window to top without recreating window }
3759: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3760: {**** other routines }
3761: { KeyPressed returns True, if Key VK is now pressed }
3762: function KeyPressed(VK: Integer): Boolean;
3763: procedure SwapInt(var Int1, Int2: Integer);
3764: function IntPower(Base, Exponent: Integer): Integer;
3765: function ChangeTopException(E: TObject): TObject;
3766: function StrToBool(const S: string): Boolean;
3767: {$IFDEF COMPILER3_UP}
3768: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3769: Length of MaxLen bytes. The compare operation is controlled by the
3770: current Windows locale. The return value is the same as for CompareStr. }
3771: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3772: function AnsiStrICmp(S1, S2: PChar): Integer;
3773: {$ENDIF}
3774: function Var2Type(V: Variant; const VarType: Integer): Variant;
3775: function VarToInt(V: Variant): Integer;
3776: function VarToFloat(V: Variant): Double;
3777: { following functions are not documented because they are don't work properly , so don't use them }
3778: function ReplaceSokr1(S: string; const Word, Frase: string): string;
3779: { ReplaceSokr1 is full equal to ReplaceString function - only for compatibility - don't use }
3780: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3781: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3782: function GetParameter: string;
3783: function GetLongFileName(FileName: string): string;
3784: {* from FileCtrl}
3785: function DirectoryExists(const Name: string): Boolean;
3786: procedure ForceDirectories(Dir: string);
3787: {# from FileCtrl}
3788: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3789: function GetComputerID: string;
3790: function GetComputerName: string;
3791: {**** string routines }
3792: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the
3793: same Index.Also see RAUtilsW.ReplaceSokr function }
3793: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3794: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3795: in the list, Words, and if founds, replaces this Word with string from another list, Frases, with the
3796: same Index, and then update NewSelStart variable }
3796: function ReplaceSokr(S:string;PosBeg,Len:Integer;Words,Frases:TStrings;var NewSelStart:Integer): string;
3797: { CountOfLines calculates the lines count in a string,each line separated from another with CrLf sequence }
3798: function CountOfLines(const S: string): Integer;
3799: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3800: procedure DeleteEmptyLines(Ss: TStrings);
3801: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
3802: Note: If strings SQL already contains where-statement, it must be started on beginning of any line }
3803: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3804: {**** files routines - }
3805: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3806: Resource can be compressed using MS Compress program}
3807: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3808: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3809: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3810: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3811: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3812: { IniReadSection read section, Section, from ini-file,
3813: IniFileName, into strings, Ss.This function reads ALL strings from specified section.
3814: Note: TIniFile.ReadSection function reads only strings with '-' symbol.}
3815: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3816: { LoadTextFile load text file, FileName, into string }
3817: function LoadTextFile(const FileName: TFileName): string;
3818: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3819: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3820: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3821: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3822: {$IFDEF COMPILER3_UP}
3823: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3824: function TargetFileName(const FileName: TFileName): TFileName;
3825: { return filename ShortCut linked to }
3826: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3827: {$ENDIF COMPILER3_UP}
3828: {**** Graphic routines - }
3829: { LoadIcoToImage loads two icons from resource named NameRes,into two image lists ALarge and ASmall}
3830: procedure LoadIcoToImage(ALarge, ASmall: TImageList; const NameRes: string);
3831: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3832: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3833: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3834: function RATextOutEx(Canvas:TCanvas; const R,RClip:TRect;const S: string;const CalcHeight:Boolean):Integer;
3835: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3836: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;

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3837: { Cinema draws some visual effect }
3838: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3839: { Roughed fills rect with special 3D pattern }
3840: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3841: { 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 }
3842: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3843: { TextWidth calculate text width for writing using standard desktop font }
3844: function TextWidth(AStr: string): Integer;
3845: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3846: function DefineCursor(Identifier: PChar): TCursor;
3847: {**** other routines - }
3848: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3849: function FindFormByClass(FormClass: TFormClass): TForm;
3850: function FindFormByClassName(FormClassName: string): TForm;
3851: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
  having Tag property value, equaled to Tag parameter }
3852: function FindByTag(WinControl: TWinControl; ComponentClass: TComponentClass; const Tag: Integer): TComponent;
3853: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3854: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3855: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3856: function RBTAG(Parent: TWinControl): Integer;
3857: { AppMinimized returns True, if Application is minimized }
3858: function AppMinimized: Boolean;
3859: { MessageBox is Application.MessageBox with string (not PChar) parameters.
  if Caption parameter = '', it replaced with Application.Title }
3860: function MessageBoxJ(const Msg: string; Caption: string; const Flags: Integer): Integer;
3861: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3862: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; DefButton: TMsgDlgBtn; HelpContext: Integer; Control: TWinControl): Integer;
3863: { Delay stop program execution to MSec msec }
3864: procedure Delay(MSec: Longword);
3865: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3866: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3867: procedure EnableMenuItem(Menuitem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3868: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3869: function PanelBorder(Panel: TCustomPanel): Integer;
3870: function Pixels(Control: TControl; APixels: Integer): Integer;
3871: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3872: procedure Error(const Msg: string);
3873: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3874: {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:Blue>blue</i>'}
3875: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): string;
3876: function ItemHtWidth(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): Integer;
3877: function ItemHtPlain(const Text: string): string;
3878: { ClearList - clears list of TObject }
3879: procedure ClearList(List: TList);
3880: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
3881: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3882: { RTTI support }
3883: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3884: function GetPropStr(Obj: TObject; const PropName: string): string;
3885: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3886: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3887: procedure PrepareIniSection(SS: TStringList);
3888: { following functions are not documented because they are don't work properly, so don't use them }
3889: {$IFDEF COMPILER2}
3890: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3891: {$ENDIF}
3892: begin
3893: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3894: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3895: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
  Accept:Bool;Sorted:Bool;
3896: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3897: Procedure BoxMoveSelected( List : TWinControl; Items : TStringList)
3898: Procedure BoxSetItem( List : TWinControl; Index : Integer)
3899: Function BoxGetFirstSelection( List : TWinControl ) : Integer
3900: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3901: end;
3902: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3903: begin
3904: Const ('MaxInitStrNum', 'LongInt' ( 9 );
3905: Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar: AnsiChar; var OutStrings
  : array of AnsiString; MaxSplit : Integer ) : Integer
3906: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
  string; MaxSplit : Integer ) : Integer
3907: Function JvAnsiStrSplitStrings(const InStr: AnsiString; const SplitChar,
  QuoteChar: AnsiChar; OutStrs: TStringList): Integer;
3908: Function JvAnsiStrStrip( S : AnsiString ) : AnsiString
3909: Function JvStrStrip( S : string ) : string
3910: Function GetString( var Source : AnsiString; const Separator : AnsiString ) : AnsiString

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3921: Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3922: Function BuildPathName( const PathName, FileName : AnsiString ) : AnsiString
3923: Function StrEatWhiteSpace( const S : string ) : string
3924: Function HexToAscii( const S : AnsiString ) : AnsiString
3925: Function AsciiToHex( const S : AnsiString ) : AnsiString
3926: Function StripQuotes( const S1 : AnsiString ) : AnsiString
3927: Function ValidNumericLiteral( S1 : PAnsiChar ) : Boolean
3928: Function ValidIntLiteral( S1 : PAnsiChar ) : Boolean
3929: Function ValidHexLiteral( S1 : PAnsiChar ) : Boolean
3930: Function HexPCharToInt( S1 : PAnsiChar ) : Integer
3931: Function ValidStringLiteral( S1 : PAnsiChar ) : Boolean
3932: Function StripPCharQuotes( S1 : PAnsiChar ) : AnsiString
3933: Function JvValidIdentifierAnsi( S1 : PAnsiChar ) : Boolean
3934: Function JvValidIdentifier( S1 : String ) : Boolean
3935: Function JvEndChar( X : AnsiChar ) : Boolean
3936: Procedure JvGetToken( S1, S2 : PAnsiChar )
3937: Function IsExpressionKeyword( S1 : PAnsiChar ) : Boolean
3938: Function IsKeyword( S1 : PAnsiChar ) : Boolean
3939: Function JvValidVarReference( S1 : PAnsiChar ) : Boolean
3940: Function GetParentthesis( S1, S2 : PAnsiChar ) : Boolean
3941: Procedure JvGetVarReference( S1, S2, SIdx : PAnsiChar )
3942: Procedure JvEatWhitespaceChars( S1 : PAnsiChar );
3943: Procedure JvEatWhitespaceChars1( S1 : PWideChar );
3944: Function GetTokenCount : Integer
3945: Procedure ResetTokenCount
3946: end;
3947:
3948: procedure SIRegister_JvDBQueryParamsForm(CL: TPSPascalCompiler);
3949: begin
3950:   SIRegister_TJvQueryParamsDialog(CL);
3951:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
3952: end;
3953:
3954: ***** JvStringUtil / JvStrUtils;*****
3955: function FindNotBlankCharPos(const S: string): Integer;
3956: function AnsiChangeCase(const S: string): string;
3957: function GetWordOnPos(const S: string; const P: Integer): string;
3958: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3959: function Cmp(const S1, S2: string): Boolean;
3960: { Spaces returns string consists on N space chars }
3961: function Spaces(const N: Integer): string;
3962: { HasChar returns True, if char, Ch, contains in string, S }
3963: function HasChar(const Ch: Char; const S: string): Boolean;
3964: function HasAnyChar(const Chars: string; const S: string): Boolean;
3965: { SubStr returns substring from string, S, separated with Separator string}
3966: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3967: { SubStrEnd same to previous function but Index numerated from the end of string }
3968: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3969: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
3970: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3971: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3972: { GetXYByPos is same to previous function, but returns X position in line too}
3973: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3974: { AddSlash returns string with added slash char to Dir parameter, if needed }
3975: function AddSlash2(const Dir: TFileName): string;
3976: { AddPath returns FileName with Path, if FileName not contain any path }
3977: function AddPath(const FileName, Path: TFileName): TFileName;
3978: { ExePath returns ExtractFilePath(ParamStr(0)) }
3979: function ExePath: TFileName;
3980: function LoadTextFile(const FileName: TFileName): string;
3981: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3982: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3983: function ConcatSep(const S, S2, Separator: string): string;
3984: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3985: function FileEquMask(FileName, Mask: TFileName): Boolean;
3986: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3987:   Masks must be separated with comma (',') }
3988: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3989: function StringEndsWith(const Str, SubStr: string): Boolean;
3990: function ExtractFilePath2(const FileName: string): string;
3991: function StrToOem(const AnsiStr: string): string;
3992: { StrToOem translates a string from the Windows character set into the OEM character set. }
3993: function OemToAnsiStr(const OemStr: string): string;
3994: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
3995: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
3996: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
3997: function ReplaceStr(const S, Srch, Replace: string): string;
3998: { Returns string with every occurrence of Srch string replaced with Replace string. }
3999: function DelSpace(const S: string): string;
4000: { DelSpace return a string with all white spaces removed. }
4001: function DelChars(const S: string; Chr: Char): string;
4002: { DelChars return a string with all Chr characters removed. }
4003: function DelBSpace(const S: string): string;
4004: { DelBSpace trims leading spaces from the given string. }
4005: function DelESpace(const S: string): string;
4006: { DelESpace trims trailing spaces from the given string. }
4007: function DelRSpace(const S: string): string;
4008: { DelRSpace trims leading and trailing spaces from the given string. }
4009: function DelSpace1(const S: string): string;

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4010: { DelSpace1 return a string with all non-single white spaces removed. }
4011: function Tab2Space(const S: string; Numb: Byte): string;
4012: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4013: function NPos(const C: string; S: string; N: Integer): Integer;
4014: { NPos searches for a N-th position of substring C in a given string. }
4015: function MakeStr(C: Char; N: Integer): string;
4016: function MS(C: Char; N: Integer): string;
4017: { MakeStr return a string of length N filled with character C. }
4018: function AddChar(C: Char; const S: string; N: Integer): string;
4019: { AddChar return a string left-padded to length N with characters C. }
4020: function AddCharR(C: Char; const S: string; N: Integer): string;
4021: { AddCharR return a string right-padded to length N with characters C. }
4022: function LeftStr(const S: string; N: Integer): string;
4023: { LeftStr return a string right-padded to length N with blanks. }
4024: function RightStr(const S: string; N: Integer): string;
4025: { RightStr return a string left-padded to length N with blanks. }
4026: function CenterStr(const S: string; Len: Integer): string;
4027: { CenterStr centers the characters in the string based upon the Len specified. }
4028: function CompStr(const S1, S2: string): Integer;
4029: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2,0 if S1 = S2,or 1 if S1>S2. }
4030: function CompText(const S1, S2: string): Integer;
4031: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4032: function Copy2Symb(const S: string; Symb: Char): string;
4033: { Copy2Symb returns a substring of a string S from begining to first character Symb. }
4034: function Copy2SymbDel(var S: string; Symb: Char): string;
4035: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4036: function Copy2Space(const S: string): string;
4037: { Copy2Space returns a substring of a string S from begining to first white space. }
4038: function Copy2SpaceDel(var S: string): string;
4039: { Copy2SpaceDel returns a substring of a string S from begining to first
4040:   white space and removes this substring from S. }
4041: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4042: { Returns string, with the first letter of each word in uppercase,
4043:   all other letters in lowercase. Words are delimited by WordDelims. }
4044: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4045: { WordCount given a set of word delimiters, returns number of words in S. }
4046: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4047: { Given a set of word delimiters, returns start position of N'th word in S. }
4048: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4049: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TCharSet; var Pos: Integer): string;
4050: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4051: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4052:   delimiters, return the N'th word in S. }
4053: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4054: { ExtractSubstr given set of word delimiters, returns the substring from S,that started from position Pos.}
4055: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4056: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4057: function QuotedString(const S: string; Quote: Char): string;
4058: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4059: function ExtractQuotedString(const S: string; Quote: Char): string;
4060: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string,
4061:   and reduces pairs of Quote characters within the quoted string to a single character. }
4062: function FindPart(const HelpWilds, InputStr: string): Integer;
4063: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4064: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4065: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4066: function XorString(const Key, Src: ShortString): ShortString;
4067: function XorEncode(const Key, Source: string): string;
4068: function XorDecode(const Key, Source: string): string;
4069: { ** Command line routines ** }
4070: {$IFNDEF COMPILER4_UP}
4071: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet; IgnoreCase: Boolean): Boolean;
4072: {$ENDIF}
4073: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4074: { ** Numeric string handling routines ** }
4075: function Numb2USA(const S: string): string;
4076: { Numb2USA converts numeric string S to USA-format. }
4077: function Dec2Hex(N: Longint; A: Byte): string;
4078: function D2H(N: Longint; A: Byte): string;
4079: { Dec2Hex converts the given value to a hexadecimal string representation
4080:   with the minimum number of digits (A) specified. }
4081: function Hex2Dec(const S: string): Longint;
4082: function H2D(const S: string): Longint;
4083: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4084: function Dec2Numb(N: Longint; A, B: Byte): string;
4085: { Dec2Numb converts the given value to a string representation with the
4086:   base equal to B and with the minimum number of digits (A) specified. }
4087: function Numb2Dec(S: string; B: Byte): Longint;
4088: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4089: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4090: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4091: function IntToRoman(Value: Longint): string;
4092: { IntToRoman converts the given value to a roman numeric string representation. }
4093: function RomanToInt(const S: string): Longint;
4094: { RomanToInt converts the given string to an integer value. If the string
4095:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4096: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4097: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4098: ***** JvFileUtil;*****

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4099: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4100: procedure CopyFileEx(const FileName, DestName:string;OverwriteReadOnly,ShellDialog:Boolean;ProgressControl:
TControl);
4101: procedure MoveFile(const FileName, DestName: TFileName);
4102: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4103: {$IFDEF COMPILER4_UP}
4104: function GetFileSize(const FileName: string): Int64;
4105: {$ELSE}
4106: function GetFileSize(const FileName: string): Longint;
4107: {$ENDIF}
4108: function FileDateTime(const FileName: string): TDateTime;
4109: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4110: function DeleteFiles(const FileMode: string): Boolean;
4111: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4112: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4113: function NormalDir(const DirName: string): string;
4114: function RemoveBackSlash(const DirName: string): string;
4115: function ValidFileName(const FileName: string): Boolean;
4116: function DirExists(Name: string): Boolean;
4117: procedure ForceDirectories(Dir: string);
4118: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4119: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4120: {$IFDEF COMPILER4_UP}
4121: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4122: {$ENDIF}
4123: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4124: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4125: {$IFDEF COMPILER4_UP}
4126: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4127: {$ENDIF}
4128: function GetTempDir: string;
4129: function GetWindowsDir: string;
4130: function GetSystemDir: string;
4131: function BrowseDirectory(var AFolderPath:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4132: {$IFDEF WIN32}
4133: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4134: function ShortToLongFileName(const ShortName: string): string;
4135: function ShortToLongPath(const ShortName: string): string;
4136: function LongToShortFileName(const LongName: string): string;
4137: function LongToShortPath(const LongName: string): string;
4138: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4139: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4140: {$ENDIF WIN32}
4141: {$IFNDEF COMPILER3_UP}
4142: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4143: {$ENDIF}
4144: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4145: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4146: Function CreatePopupCalculator( AOwner : TComponent ) : TWinControl;
4147: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4148:
4149: //*****procedure SIRegister_VarHlpr(CL: TPSPascalCompiler);
4150: Procedure VariantClear( var V : Variant );
4151: Procedure VariantArrayRedim( var V : Variant; High : Integer );
4152: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer );
4153: Procedure VariantCpy( const src : Variant; var dst : Variant );
4154: Procedure VariantAdd( const src : Variant; var dst : Variant );
4155: Procedure VariantSub( const src : Variant; var dst : Variant );
4156: Procedure VariantMul( const src : Variant; var dst : Variant );
4157: Procedure VariantDiv( const src : Variant; var dst : Variant );
4158: Procedure VariantMod( const src : Variant; var dst : Variant );
4159: Procedure VariantAnd( const src : Variant; var dst : Variant );
4160: Procedure VariantOr( const src : Variant; var dst : Variant );
4161: Procedure VariantXor( const src : Variant; var dst : Variant );
4162: Procedure VariantShl( const src : Variant; var dst : Variant );
4163: Procedure VariantShr( const src : Variant; var dst : Variant );
4164: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4165: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4166: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4167: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4168: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4169: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4170: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4171: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4172: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4173: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4174: Function VariantNot( const V1 : Variant ) : Variant;
4175: Function VariantNeg( const V1 : Variant ) : Variant;
4176: Function VariantGetElement( const V : Variant; i1 : integer ) : Variant;
4177: Function VariantGetElement1( const V : Variant; i1, i2 : integer ) : Variant;
4178: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer ) : Variant;
4179: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer ) : Variant;
4180: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer ) : Variant;
4181: Procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer );
4182: Procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer );
4183: Procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer );
4184: Procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer );
4185: Procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer );
4186: end;

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4187:
4188: *****unit uPSI_JvgUtils;*****
4189: function IsEven(I: Integer): Boolean;
4190: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4191: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4192: procedure SwapInt(var I1, I2: Integer);
4193: function Spaces(Count: Integer): string;
4194: function DupStr(const Str: string; Count: Integer): string;
4195: function DupChar(C: Char; Count: Integer): string;
4196: procedure Msg(const AMsg: string);
4197: function RectW(R: TRect): Integer;
4198: function RectH(R: TRect): Integer;
4199: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4200: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4201: function IsItAFilledBitmap(Bmp: TBitmap): Boolean;
4202: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4203:   HAlign: TglHorAlign; VAlign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4204: procedure DrawTextInRect(DC: HDC; R:TRect; const Text:string;Style:TglTextStyle;Fnt:TFont;Flags: UINT);
4205: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4206:   Style: TglTextStyle; ADelineated, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor:
4207:   TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4208: procedure DrawBox(DC:HDC; var R:TRect; Style:TglBoxStyle;BackgrColor: Longint; ATransparent: Boolean);
4209: BevelInner, BevelOuter: TPanelBevel; Bold:Boolean; BackgrColor: Longint; ATransparent: Boolean): TRect;
4210: procedure GradientBox(DC: HDC; R: TRect; Gradient: TJvgGradient; PenStyle, PenWidth: Integer);
4211: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4212: procedure DrawBitmapExt(DC: HDC; { DC - background & result}
4213:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4214:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4215:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4216: procedure CreateBitmapExt(DC: HDC; { DC - background & result}
4217:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4218:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4219:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4220: procedure BringParentWindowToFront(Wnd: TWinControl);
4221: function GetParentForm(Control: TControl): TForm;
4222: procedure GetWindowImageFrom(Control: TWinControl; X, Y: Integer; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4223: procedure GetWindowImage(Control: TWinControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4224: procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4225: function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4226: function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4227: procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4228: function CalcMathString(AExpression: string): Single;
4229: function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4230: function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4231: function GetTransparentColor(Bitmap: TBitmap; AutoTrColor: TglAutoTransparentColor): TColor;
4232: procedure TypeStringOnKeyboard(const S: string);
4233: function NextStringGridCell(Grid: TStringGrid): Boolean;
4234: procedure DrawTextExtAligned(Canvas: TCanvas; const
4235:   Text: string; R: TRect; Alignment: TglAlignment; WordWrap: Boolean);
4236: procedure LoadComponentFromFile(Component: TComponent; const FileName: string);
4237: function ComponentToString(Component: TComponent): string;
4238: procedure StringToComponent(Component: TComponent; const Value: string);
4239: function PlayWaveResource(const ResName: string): Boolean;
4240: function UserName: string;
4241: function ComputerName: string;
4242: function CreateIniFileName: string;
4243: function ExpandString(const Str: string; Len: Integer): string;
4244: function Transliterate(const Str: string; RusToLat: Boolean): string;
4245: function IsSmallFonts: Boolean;
4246: function SystemColorDepth: Integer;
4247: function GetFileTypeJ(const FileName: string): TglFileType;
4248: Function GetFileType( hfile : THandle ) : DWORD';
4249: function FindControlAtPt(Control: TWinControl; Pt: TPoint; MinClass: TClass): TControl;
4250: function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4251:
4252: { ****Utility routines of unit classes}
4253: function LineStart(Buffer, BufPos: PChar): PChar;
4254: function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar; '+
4255:   'Strings: TStrings): Integer;
4256: Function TestStreamFormat( Stream : TStream ) : TStreamOriginalFormat;
4257: Procedure RegisterClass( AClass : TPersistentClass );
4258: Procedure RegisterClasses( AClasses : array of TPersistentClass );
4259: Procedure RegisterClassAlias( AClass : TPersistentClass; const Alias : string );
4260: Procedure UnRegisterClass( AClass : TPersistentClass );
4261: Procedure UnRegisterClasses( AClasses : array of TPersistentClass );
4262: Procedure UnRegisterModuleClasses( Module : HMODULE );
4263: Function FindGlobalComponent( const Name : string ) : TComponent;
4264: Function IsUniqueGlobalComponentName( const Name : string ) : Boolean;
4265: Function InitInheritedComponent( Instance : TComponent; RootAncestor : TClass ) : Boolean;
4266: Function InitComponentRes( const ResName : string; Instance : TComponent ) : Boolean;
4267: Function ReadComponentRes( const ResName : string; Instance : TComponent ) : TComponent;
4268: Function ReadComponentResEx( HInstance : THandle; const ResName : string ) : TComponent;
4269: Function ReadComponentResFile( const FileName : string; Instance : TComponent ) : TComponent;
4270: Procedure WriteComponentResFile( const FileName : string; Instance : TComponent );
4271: Procedure GlobalFixupReferences;
4272: Procedure GetFixupReferenceNames( Root : TComponent; Names : TStrings );
4273: Procedure GetFixupInstanceNames(Root: TComponent; const ReferenceRootName string; Names : TStrings );

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4274: Procedure RedirectFixupReferences( Root : TComponent; const OldRootName, NewRootName : string)
4275: Procedure RemoveFixupReferences( Root : TComponent; const RootName : string)
4276: Procedure RemoveFixups( Instance : TPersistent)
4277: Function FindNestedComponent( Root : TComponent; const NamePath : string) : TComponent
4278: Procedure BeginGlobalLoading
4279: Procedure NotifyGlobalLoading
4280: Procedure EndGlobalLoading
4281: Function GetUltimateOwner1( ACollection : TCollection) : TPersistent;
4282: Function GetUltimateOwner( APersistent : TPersistent) : TPersistent;
4283: // AddTypeS('TWndMethod', 'Procedure (var Message : TMessage)
4284: //Function MakeObjectInstance( Method : TWndMethod) : Pointer
4285: Procedure FreeObjectInstance( ObjectInstance : Pointer)
4286: // Function AllocateHWnd( Method : TWndMethod) : HWND
4287: Procedure DeAllocateHWnd( Wnd : HWND)
4288: Function AncestorIsValid( Ancestor : TPersistent; Root, RootAncestor : TComponent) : Boolean
4289: *****unit uPSI_SqlTimSt and DB;*****
4290: Procedure VarSQLTimeStampCreate4( var aDest : Variant; const ASQLTimeStamp : TSQSLTimeStamp);
4291: Function VarSQLTimeStampCreate3: Variant;
4292: Function VarSQLTimeStampCreate2( const AValue : string) : Variant;
4293: Function VarSQLTimeStampCreate1( const AValue : TDateTime) : Variant;
4294: Function VarSQLTimeStampCreate( const ASQLTimeStamp : TSQSLTimeStamp) : Variant;
4295: Function VarSQLTimeStamp : TVarType
4296: Function VarIsSQLTimeStamp( const aValue : Variant) : Boolean;
4297: Function LocalToUTC( var TZInfo : TTTimeZone; var Value : TSQSLTimeStamp) : TSQSLTimeStamp //beta
4298: Function UTCToLocal( var TZInfo : TTTimeZone; var Value : TSQSLTimeStamp) : TSQSLTimeStamp //beta
4299: Function VarToSQLTimeStamp( const aValue : Variant) : TSQSLTimeStamp
4300: Function SQLTimeStampToStr( const Format : string; DateTime : TSQSLTimeStamp) : string
4301: Function SQLDayOfWeek( const DateTime : TSQSLTimeStamp) : integer
4302: Function DateTimeToSQLTimeStamp( const DateTime : TDateTime) : TSQSLTimeStamp
4303: Function SQLTimeStampToDate( const Date : TSQSLTimeStamp) : TDate
4304: Function TryStrToSQLTimeStamp( const S : string; var TimeStamp : TSQSLTimeStamp) : Boolean
4305: Function StrToSQLTimeStamp( const S : string) : TSQSLTimeStamp
4306: Procedure CheckSQLTimeStamp( const ASQLTimeStamp : TSQSLTimeStamp)
4307: Function ExtractFieldName( const Fields : string; var Pos : Integer) : string;
4308: Function ExtractFieldName( const Fields : WideString; var Pos : Integer) : WideString;
4309: //Procedure RegisterFields( const FieldClasses : array of TFieldClass)
4310: Procedure DatabaseError( const Message : WideString; Component : TComponent)
4311: Procedure DatabaseErrorFmt( const Message: WideString; const Args:array of const;Component:TComponent)
4312: Procedure DisposeMem( var Buffer, Size : Integer)
4313: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer) : Boolean
4314: Function GetFieldProperty(DataSet:TDataSet; Control:TComponent; const FieldName: WideString): TField
4315: Function VarTypeToDataType( VarType : Integer) : TFieldType
4316: *****unit JVStrings;*****
4317: {template functions}
4318: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4319: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4320: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4321: function RemoveMasterBlocks(const SourceStr: string): string;
4322: function RemoveFields(const SourceStr: string): string;
4323: {http functions}
4324: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4325: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4326: {set functions}
4327: procedure SplitSet(AText: string; AList: TStringList);
4328: function JoinSet(AList: TStringList): string;
4329: function FirstOfSet(const AText: string): string;
4330: function LastOfSet(const AText: string): string;
4331: function CountOfSet(const AText: string): Integer;
4332: function SetRotateRight(const AText: string): string;
4333: function SetRotateLeft(const AText: string): string;
4334: function SetPick(const AText: string; AIndex: Integer): string;
4335: function SetSort(const AText: string): string;
4336: function SetUnion(const Set1, Set2: string): string;
4337: function SetIntersect(const Set1, Set2: string): string;
4338: function SetExclude(const Set1, Set2: string): string;
4339: {replace any <,> etc by &lt;,&gt;}
4340: function XMLSafe(const AText: string): string;
4341: {simple hash, Result can be used in Encrypt}
4342: function Hash(const AText: string): Integer;
4343: { Base64 encode and decode a string }
4344: function B64Encode(const S: AnsiString): AnsiString;
4345: function B64Decode(const S: AnsiString): AnsiString;
4346: {Basic encryption from a Borland Example}
4347: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4348: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4349: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4350: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4351: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4352: procedure CSVToTags(Src, Dst: TStringList);
4353: // converts a csv list to a tagged string list
4354: procedure TagsToCSV(Src, Dst: TStringList);
4355: // converts a tagged string list to a csv list
4356: // only fieldnames from the first record are scanned in the other records
4357: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4358: {selects akey=avalue from Src and returns recordset in Dst}
4359: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4360: {filters Src for akey=avalue}
4361: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4362: {orders a tagged Src list by akey}

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4363: function PosStr(const FindString, SourceString: string;
4364:   StartPos: Integer = 1): Integer;
4365: { PosStr searches the first occurrence of a substring FindString in a string
4366:   given by SourceString with case sensitivity (upper and lower case characters
4367:   are differed). This function returns the index value of the first character
4368:   of a specified substring from which it occurs in a given string starting with
4369:   StartPos character index. If a specified substring is not found Q_PosStr
4370:   returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4371: function PosStrLast(const FindString, SourceString: string): Integer;
4372: {finds the last occurrence}
4373: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4374: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;
4375: { PosText searches the first occurrence of a substring FindString in a string
4376:   given by SourceString without case sensitivity (upper and lower case characters are not differed). This
4377:   function returns the index value of the first character of a specified substring from which it occurs in a
4378:   given string starting with Start
4379: function PosTextLast(const FindString, SourceString: string): Integer;
4380: {finds the last occurrence}
4381: function NameValuesToXML(const AText: string): string;
4382: {$IFDEF MSWINDOWS}
4383: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4384: {$ENDIF MSWINDOWS}
4385: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4386: procedure RecurseDir(const ADir: string; var AFileList: TStringList);
4387: procedure SaveString(const AFile, AText: string);
4388: Procedure SaveStringasFile( const AFile, AText : string)
4389: function LoadStringJ(const AFile: string): string;
4390: Function LoadStringOfFile( const AFile : string) : string
4391: Procedure SaveStringToFile( const AFile, AText : string)
4392: function LoadStringFromFile( const AFile : string) : string
4393: function HexToColor(const AText: string): TColor;
4394: function UppercaseHTMLTags(const AText: string): string;
4395: function LowercaseHTMLTags(const AText: string): string;
4396: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4397: function RelativePath(const ASrc, ADst: string): string;
4398: function GetToken(var Start: Integer; const SourceText: string): string;
4399: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4400: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4401: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4402: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4403: // parses the beginning of an attribute: space + alpha character
4404: function ParseAttribute(var Start: Integer; const SourceText: string; var AName, AValue: string): Boolean;
4405: //parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4406: procedure ParseAttributes(const SourceText: string; Attributes: TStrings);
4407: // parses all name=value attributes to the attributes TStringList
4408: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4409: // checks if a name="value" pair exists and returns any value
4410: function GetStrValue(const AText, AName, ADefault: string): string;
4411: // retrieves string value from a line like:
4412: // name="jan verhoeven" email="jani dott verhoeven att wxs dott nl"
4413: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4414: // same for a color
4415: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4416: // same for an Integer
4417: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4418: // same for a float
4419: function GetBoolValue(const AText, AName: string): Boolean;
4420: // same for Boolean but without default
4421: function GetValue(const AText, AName: string): string;
4422: //retrieves string value from a line like: name="jan verhoeven" email="jani verhoeven att wxs dott nl"
4423: procedure SetValue(var AText: string; const AName, AValue: string);
4424: // sets a string value in a line
4425: procedure DeleteValue(var AText: string; const AName: string);
4426: // deletes a AName="value" pair from AText
4427: procedure GetNames(AText: string; Alist: TStringList);
4428: // get a list of names from a string with name="value" pairs
4429: function GetHTMLColor(AColor: TColor): string;
4430: // converts a color value to the HTML hex value
4431: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4432: // finds a string backward case sensitive
4433: function BackPostText(Start: Integer; const FindString, SourceString: string): Integer;
4434: // finds a string backward case insensitive
4435: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4436:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4437: // finds a text range, e.g. <TD>....</TD> case sensitive
4438: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4439:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4440: // finds a text range, e.g. <TD>....</td> case insensitive
4441: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4442:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4443: // finds a text range backward, e.g. <TD>....</TD> case sensitive
4444: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4445:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4446: // finds a text range backward, e.g. <TD>....</td> case insensitive
4447: function PosTag(Start: Integer; SourceString: string; var RangeBegin: Integer;
4448:   var RangeEnd: Integer): Boolean;
4449: // finds a HTML or XML tag: <....>

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4450: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4451:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4452: // finds the innertext between opening and closing tags
4453: function Easter(NYear: Integer): TDateTime;
4454: // returns the easter date of a year.
4455: function GetWeekNumber(Today: TDateTime): string;
4456: //gets a datecode. Returns year and weeknumber in format: YYWW
4457: function ParseNumber(const S: string): Integer;
4458: // parse number returns the last position, starting from 1
4459: function ParseDate(const S: string): Integer;
4460: // parse a SQL style data string from positions 1,
4461: // starts and ends with #
4462:
4463: *****unit JvJCLUtils;*****
4464:
4465: function VarIsInt(Value: Variant): Boolean;
4466: // VarIsInt returns VarIsOrdinal-[varBoolean]
4467: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4468: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4469: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4470: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4471: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4472: function GetWordOnPos(const S: string; const P: Integer): string;
4473: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4474: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4475: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4476: { GetWordOnPosEx working like GetWordOnPos function, but
4477:   also returns Word position in iBeg, iEnd variables }
4478: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4479: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4480: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4481: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4482: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4483: { GetEndPosCaret returns the caret position of the last char. For the position
4484:   after the last char of Text you must add 1 to the returned X value. }
4485: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4486: { GetEndPosCaret returns the caret position of the last char. For the position
4487:   after the last char of Text you must add 1 to the returned X value. }
4488: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4489: function SubStrBySeparator(const S:string;const Index:Integer;const
Separator:string;startIndex:Int=1):string;
4490: function SubStrBySeparatorW(const S:WideString;const Index:Int;const
Separator:WideString;startIndex:Int:WideString;
4491: { SubStrEnd same to previous function but Index numerated from the end of string }
4492: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4493: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4494: function SubWord(P: PChar; var P2: PChar): string;
4495: function CurrencyByWord(Value: Currency): string;
4496: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4497: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4498: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4499: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4500: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4501: { ReplaceString searches for all substrings, OldPattern,
4502:   in a string, S, and replaces them with NewPattern }
4503: function ReplaceString(S: string; const OldPattern,NewPattern: string; StartIndex:Integer = 1):string;
4504: function ReplaceStringW(S: WideString; const OldPattern,NewPattern:
WideString;StartIndex:Integer=1):WideString;
4505: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4506: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4507: { ConcatLeftSep is same to previous function, but   strings concatenate right to left }
4508: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4509:
4510: { Next 4 function for russian chars transliterating.
4511:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4512: procedure Dos2Win(var S: AnsiString);
4513: procedure Win2Dos(var S: AnsiString);
4514: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4515: function Win2DOSRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4516: function Win2Koi(const S: AnsiString): AnsiString;
4517: { FillString fills the string Buffer with Count Chars }
4518: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4519: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4520: { MoveString copies Count Chars from Source to Dest }
4521: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
inline; {$ENDIF SUPPORTS_INLINE} overload;
4522: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
4523:   DstStartIdx: Integer; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4524: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4525: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4526: { MoveWideChar copies Count WideChars from Source to Dest }
4527: procedure MoveWideChar(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4528: { FillNativeChar fills Buffer with Count NativeChars }
4529: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4530: { MoveWideChar copies Count WideChars from Source to Dest }

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4531: procedure MoveNativeChar(const Source; var Dest; Count: Integer); // D2009 internal error {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4532: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4533: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4534: { Spaces returns string consists on N space chars }
4535: function Spaces(const N: Integer): string;
4536: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4537: function AddSpaces(const S: string; const N: Integer): string;
4538: function SpacesW(const N: Integer): WideString;
4539: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4540: { function LastDateRUS for russian users only }
4541: { returns date relative to current date: 'ðåà áíÿ íàçàâ' }
4542: function LastDateRUS(const Dat: TDateTime): string;
4543: { CurrencyToStr format Currency, Cur, using ffcurrency float format }
4544: function CurrencyToStr(const Cur: Currency): string;
4545: { HasChar returns True, if Char, Ch, contains in string, S }
4546: function HasChar(const Ch: Char; const S: string): Boolean;
4547: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4548: function HasAnyChar(const Chars: string; const S: string): Boolean;
4549: {$IFNDEF COMPILER12_UP}
4550: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4551: {$ENDIF ~COMPILER12_UP}
4552: function CharInSetW(const Ch: WideChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4553: function CountOfChar(const Ch: Char; const S: string): Integer;
4554: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4555: { StrLICompW is a faster replacement for JclUnicode.StrLICompW }
4556: function StrLICompW(S1, S2: PWideChar; MaxLen: Integer): Integer;
4557: function StrPosW(S, SubStr: PWideChar): PWideChar;
4558: function StrLenW(S: PWideChar): Integer;
4559: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4560: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4561: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4562: TPixelFormat', '( pfDevice, pflbit, pf4bit, pf8bit, pf24bit )
4563: TMappingMethod', '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTripel, mmGrayscale )
4564: Function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4565: Function GetPaletteBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4566: Procedure SetBitmapPixelFormat( Bitmap : TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod )
4567: Function BitmapToMemoryStream(Bitmap:TBitmap;PixelFormat:TPixelFormat;Method:TMappingMethod):TMemoryStream;
4568: Procedure GrayscaleBitmap( Bitmap : TBitmap )
4569: Function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4570: Procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer )
4571: Function ScreenPixelFormat : TPixelFormat
4572: Function ScreenColorCount : Integer
4573: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic )
4574: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean ) : TPoint
4575: // SIRegister_TJvGradient(CL);
4576:
4577: {***** files routines}
4578: procedure SetDelimitedText(List: TStringList; const Text: string; Delimiter: Char);
4579: const
4580: {$IFDEF MSWINDOWS}
4581: DefaultCaseSensitivity = False;
4582: {$ENDIF MSWINDOWS}
4583: {$IFDEF UNIX}
4584: DefaultCaseSensitivity = True;
4585: {$ENDIF UNIX}
4586: { GenTempFileName returns temporary file name on
4587:   drive, there FileName is placed }
4588: function GenTempFileName(FileName: string): string;
4589: { GenTempFileNameExt same to previous function, but
4590:   returning filename has given extension, FileExt }
4591: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4592: { ClearDir clears folder Dir }
4593: function ClearDir(const Dir: string): Boolean;
4594: { DeleteDir clears and than delete folder Dir }
4595: function DeleteDir(const Dir: string): Boolean;
4596: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4597: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4598: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4599:   Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4600: function FileEquMasks(FileName, Masks: TFileName);
4601: { CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4602: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4603: {$IFDEF MSWINDOWS}
4604: { LZFileExpand expand file, FileSource,
4605:   into FileDest. Given file must be compressed, using MS Compress program }
4606: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4607: {$ENDIF MSWINDOWS}
4608: { FileGetInfo fills SearchRec record for specified file attributes}
4609: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4610: { HasSubFolder returns True, if folder APath contains other folders }
4611: function HasSubFolder(APath: TFileName): Boolean;
4612: { IsEmptyFolder returns True, if there are no files or
4613:   folders in given folder, APath}
4614: function IsEmptyFolder(APath: TFileName): Boolean;
4615: { AddSlash returns string with added slash Char to Dir parameter, if needed }

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4616: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4617: { AddPath returns FileName with Path, if FileName not contain any path }
4618: function AddPath(const FileName, Path: TFileName): TFileName;
4619: function AddPaths(const PathList, Path: string): string;
4620: function ParentPath(const Path: TFileName): TFileName;
4621: function FindInPath(const FileName, PathList: string): TFileName;
4622: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4623: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4624: { HasParam returns True, if program running with specified parameter, Param }
4625: function HasParam(const Param: string): Boolean;
4626: function HasSwitch(const Param: string): Boolean;
4627: function Switch(const Param: string): string;
4628: { ExePath returns ExtractFilePath(ParamStr(0)) }
4629: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4630: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4631: //function FileTimeToDateTime(const FT: TFileTime): TDateTime;
4632: procedure FileTimeToDosDateTimeDWord(const FT: TFileTime; out Dft: DWORD);
4633: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4634: {**** Graphic routines }
4635: { IsTTFFontSelected returns True, if True Type font is selected in specified device context }
4636: function IsTTFFontSelected(const DC: HDC): Boolean;
4637: function KeyPressed(VK: Integer): Boolean;
4638: Function isKeypressed: boolean; //true if key on memo2 (shell output) is pressed
4639: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4640: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4641: {**** Color routines }
4642: procedure RGBToHSV(R, G, B: Integer; var H, S, V: Integer);
4643: function RGBToBGR(Value: Cardinal): Cardinal;
4644: //function ColorToPrettyName(Value: TColor): string;
4645: //function PrettyNameToColor(const Value: string): TColor;
4646: {**** other routines }
4647: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4648: function IntPower(Base, Exponent: Integer): Integer;
4649: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4650: function StrToBool(const S: string): Boolean;
4651: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4652: function VarToInt(V: Variant): Integer;
4653: function VarToFloat(V: Variant): Double;
4654: { following functions are not documented because they not work properly sometimes, so do not use them }
4655: // (rom) ReplaceStrings1, GetSubStr removed
4656: function GetLongFileName(const FileName: string): string;
4657: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4658: function GetParameter: string;
4659: function GetComputerID: string;
4660: function GetComputerName: string;
4661: {**** string routines }
4662: { ReplaceAllStrings searches for all substrings, Words,
4663:   in a string, S, and replaces them with Frases with the same Index. }
4664: function ReplaceAllStrings(const S: string; Words, Frases: TStrings): string;
4665: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4666:   in the list, Words, and if founds, replaces this Word with string from another list,Frases, with the
4667:   same Index, and then update NewSelStart variable }
4668: function ReplaceStrings(const S:string;PosBeg:Len:Int;Words,Frases:TStrings;var NewSelStart:Int):string;
4669: { CountOfLines calculates the lines count in a string, S,
4670:   each line must be separated from another with CrLf sequence }
4671: function CountOfLines(const S: string): Integer;
4672: { DeleteLines deletes all lines from strings which in the words, words.
4673:   The word of will be deleted from strings. }
4674: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4675: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4676:   Lines contained only spaces also deletes. }
4677: { SQLAddWhere addes or modifies existing where-statement, where,
4678:   to the strings, SQL. Note: If strings SQL already contains where-statement,
4679:   it must be started on the begining of any line }
4680: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4681: {**** files routines - }
4682: {$IFDEF MSWINDOWS}
4683: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4684:   Resource can be compressed using MS Compress program}
4685: function ResSaveToFile(const Typ,Name:string; const Compressed: Boolean; const FileName: string): Boolean;
4686: function ResSaveToFileEx(Instance:HINST;Typ,Name:PChar;const Compressed:Boolean;const FileName:string): Boolean;
4687: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4688: {$ENDIF MSWINDOWS}
4689: { IniReadSection read section, Section, from ini-file,
4690:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
4691:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
4692: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4693: { LoadTextFile load text file, FileName, into string }
4694: function LoadTextFile(const FileName: TFileName): string;
4695: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4696: { ReadFolder reads files list from disk folder,Folder,that are equal to mask, Mask,into strings, FileList}
4697: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
4698: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4699: { RATETextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4700: procedure RATETextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4701: { RATETextOutEx same with RATETextOut function, but can calculate needed height for correct output }
4702: function RATETextOutEx(Canvas:TCanvas;const R,RClip:TRect; const S:string;const CalcHeight:Boolean):Integer;

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4703: { RATextCalcHeight calculate needed height for
4704:   correct output, using RATextOut or RATextOutEx functions }
4705: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4706: { Cinema draws some visual effect }
4707: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4708: { Roughed fills rect with special 3D pattern }
4709: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4710: { 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 }
4711: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4712: { TextWidth calculate text width for writing using standard desktop font }
4713: function TextWidth(const AStr: string): Integer;
4714: { TextHeight calculate text height for writing using standard desktop font }
4715: function TextHeight(const AStr: string): Integer;
4716: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4717: procedure Error(const Msg: string);
4718: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4719:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4720: {example Text parameter:'Item 1<b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4721: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4722:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4723: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4724:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4725: function ItemHtPlain(const Text: string): string;
4726: { ClearList - clears list of TObject }
4727: procedure ClearList(List: TList);
4728: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
4729: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
4730: { RTTI support }
4731: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4732: function GetPropStr(Obj: TObject; const PropName: string): string;
4733: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4734: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4735: procedure PrepareIniSection(Ss: TStrings);
4736: { following functions are not documented because they are don't work properly, so don't use them }
4737: // (rom) from JvBandWindows to make it obsolete
4738: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4739: // (rom) from JvBandUtils to make it obsolete
4740: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4741: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4742: function CreateIconFromClipboard: TIcon;
4743: { begin JvIconClipboardUtils } { Icon clipboard routines }
4744: function CF_ICON: Word;
4745: procedure AssignClipboardIcon(Icon: TIcon);
4746: { Real-size icons support routines (32-bit only) }
4747: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4748: function CreateRealSizeIcon(Icon: TIcon): HICON;
4749: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4750: {end JvIconClipboardUtils }
4751: function CreateScreenCompatibleDC: HDC;
4752: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4753: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4754: { begin JvRLE } // (rom) changed API for inclusion in JCL
4755: procedure RleCompressTo(InStream, OutStream: TStream);
4756: procedure RleDecompressTo(InStream, OutStream: TStream);
4757: procedure RleCompress(Stream: TStream);
4758: procedure RleDecompress(Stream: TStream);
4759: { end JvRLE } { begin JvDateUtil }
4760: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4761: function IsLeapYear(AYear: Integer): Boolean;
4762: function DaysInAMonth(const AYear, AMonth: Word): Word;
4763: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4764: function FirstDayOfPrevMonth: TDateTime;
4765: function LastDayOfPrevMonth: TDateTime;
4766: function FirstDayOfNextMonth: TDateTime;
4767: function ExtractDay(ADate: TDateTime): Word;
4768: function ExtractMonth(ADate: TDateTime): Word;
4769: function ExtractYear(ADate: TDateTime): Word;
4770: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4771: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$IFDEF SUPPORTS_INLINE}
4772: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4773: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4774: function Validate(ADate: TDateTime): Boolean;
4775: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4776: function MonthsBetween(Date1, Date2: TDateTime): Double;
4777: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4778: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4779: function DaysBetween(Date1, Date2: TDateTime): Longint;
4780: { The same as previous but if Date2 < Date1 result = 0 }
4781: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4782: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4783: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4784: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4785: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
4786: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4787: { String to date conversions }
4788: function GetDateOrder(const DateFormat: string): TDateOrder;
4789: function MonthFromName(const S: string; MaxLen: Byte): Byte;

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4790: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4791: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4792: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4793: //function DefDateFormat(ADigitYear: Boolean): string;
4794: //function DefDateMask(BlanksChar: Char; ADigitYear: Boolean): string;
4795: function FormatLongDate(Value: TDateTime): string;
4796: function FormatLongDateTime(Value: TDateTime): string;
4797: { end JvDateUtil }
4798: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4799: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4800: { begin JvStrUtils } { ** Common string handling routines ** }
4801: {$IFDEF UNIX}
4802: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4803:   const ToCode, FromCode: AnsiString): Boolean;
4804: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4805: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4806: function OemToStrAnsi(const S: AnsiString): AnsiString;
4807: function AnsiStrToOem(const S: AnsiString): AnsiString;
4808: {$ENDIF UNIX}
4809: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4810: { StrToOem translates a string from the Windows character set into the OEM character set. }
4811: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4812: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4813: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4814: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4815: function ReplaceStr(const S, Srch, Replace: string): string;
4816: { Returns string with every occurrence of Srch string replaced with Replace string. }
4817: function DelSpace(const S: string): string;
4818: { DelSpace return a string with all white spaces removed. }
4819: function DelChars(const S: string; Chr: Char): string;
4820: { DelChars return a string with all Chr characters removed. }
4821: function DelBSpace(const S: string): string;
4822: { DelBSpace trims leading spaces from the given string. }
4823: function DelESpace(const S: string): string;
4824: { DelESpace trims trailing spaces from the given string. }
4825: function DelRSpace(const S: string): string;
4826: { DelRSpace trims leading and trailing spaces from the given string. }
4827: function DelSpace1(const S: string): string;
4828: { DelSpace1 return a string with all non-single white spaces removed. }
4829: function Tab2Space(const S: string; Numb: Byte): string;
4830: { Tab2Space converts any tabulation character in the given string to the
4831:   Numb spaces characters. }
4832: function NPos(const C: Char; S: string; N: Integer): Integer;
4833: { NPos searches for a N-th position of substring C in a given string. }
4834: function MakeStr(C: Char; N: Integer): string; overload;
4835: {$IFNDEF COMPILER12_UP}
4836: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4837: {$ENDIF !COMPILER12_UP}
4838: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4839: { MakeStr return a string of length N filled with character C. }
4840: function AddChar(C: Char; const S: string; N: Integer): string;
4841: { AddChar return a string left-padded to length N with characters c. }
4842: function AddCharR(C: Char; const S: string; N: Integer): string;
4843: { AddCharR return a string right-padded to length N with characters c. }
4844: function LeftStr(const S: string; N: Integer): string;
4845: { LeftStr return a string right-padded to length N with blanks. }
4846: function RightStr(const S: string; N: Integer): string;
4847: { RightStr return a string left-padded to length N with blanks. }
4848: function CenterStr(const S: string; Len: Integer): string;
4849: { CenterStr centers the characters in the string based upon the Len specified. }
4850: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4851: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4852:   -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4853: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4854: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4855: function Copy2Symb(const S: string; Symb: Char): string;
4856: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4857: function Copy2SymbDel(var S: string; Symb: Char): string;
4858: { Copy2SymbDel returns a substring of a string S from beginning to first
4859:   character Symb and removes this substring from S. }
4860: function Copy2Space(const S: string): string;
4861: { Copy2Space returns a substring of a string S from beginning to first white space. }
4862: function Copy2SpaceDel(var S: string): string;
4863: { Copy2SpaceDel returns a substring of a string S from beginning to first
4864:   white space and removes this substring from S. }
4865: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4866: { Returns string, with the first letter of each word in uppercase,
4867:   all other letters in lowercase. Words are delimited by WordDelims. }
4868: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4869: { WordCount given a set of word delimiters, returns number of words in S. }
4870: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4871: { Given a set of word delimiters, returns start position of N'th word in S. }
4872: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4873: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4874: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4875: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4876:   delimiters, return the N'th word in S. }
4877: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;
4878: { ExtractSubstr given a set of word delimiters, returns the substring from S,

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4879:   that started from position Pos. }
4880: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4881: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4882: function QuotedString(const S: string; Quote: Char): string;
4883: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4884: function ExtractQuotedString(const S: string; Quote: Char): string;
4885: { ExtractQuotedString removes the Quote characters from the beginning and
4886:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character. }
4887: function FindPart(const HelpWilds, InputStr: string): Integer;
4888: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4889: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4890: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4891: function XorString(const Key, Src: ShortString): ShortString;
4892: function XorEncode(const Key, Source: string): string;
4893: function XorDecode(const Key, Source: string): string;
4894: { ** Command line routines ** }
4895: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4896: { ** Numeric string handling routines ** }
4897: function Numb2USA(const S: string): string;
4898: { Numb2USA converts numeric string S to USA-format. }
4899: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4900: { Dec2Hex converts the given value to a hexadecimal string representation
4901:   with the minimum number of digits (A) specified. }
4902: function Hex2Dec(const S: string): Longint;
4903: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4904: function Dec2Numb(N: Int64; A, B: Byte): string;
4905: { Dec2Numb converts the given value to a string representation with the
4906:   base equal to B and with the minimum number of digits (A) specified. }
4907: function Numb2Dec(S: string; B: Byte): Int64;
4908: { Numb2Dec converts the given B-based numeric string to the corresponding
4909:   integer value. }
4910: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4911: { IntToBin converts the given value to a binary string representation
4912:   with the minimum number of digits specified. }
4913: function IntToRoman(Value: Longint): string;
4914: { IntToRoman converts the given value to a roman numeric string representation. }
4915: function RomanToInt(const S: string): Longint;
4916: { RomanToInt converts the given string to an integer value. If the string
4917:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4918: function FindNotBlankCharPos(const S: string): Integer;
4919: function FindNotBlankCharPosW(const S: WideString): Integer;
4920: function AnsiChangeCase(const S: string): string;
4921: function WideChangeCase(const S: string): string;
4922: function StartsText(const SubStr, S: string): Boolean;
4923: function EndsText(const SubStr, S: string): Boolean;
4924: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4925: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4926: {end JvStringUtil}
4927: {$IFDEF UNIX}
4928: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4929: {$ENDIF UNIX}
4930: { begin JvFileUtil }
4931: function FileDateTime(const FileName: string): TDateTime;
4932: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4933: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4934: function NormalDir(const DirName: string): string;
4935: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4936: function ValidFileName(const FileName: string): Boolean;
4937: {$IFDEF MSWINDOWS}
4938: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4939: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4940: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4941: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4942: {$ENDIF MSWINDOWS}
4943: function GetWindowsDir: string;
4944: function GetSystemDir: string;
4945: function ShortToLongFileName(const ShortName: string): string;
4946: function LongToShortFileName(const LongName: string): string;
4947: function ShortToLongPath(const ShortName: string): string;
4948: function LongToShortPath(const LongName: string): string;
4949: {$IFDEF MSWINDOWS}
4950: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4951: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4952: {$ENDIF MSWINDOWS}
4953: { end JvFileUtil }
4954: // Works like PtInRect but includes all edges in comparision
4955: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
4956: // Works like PtInRect but excludes all edges from comparision
4957: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
4958: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
4959: function IsFourDigitYear: Boolean;
4960: { moved from JvJVCLUtils }
4961: //Open an object with the shell (url or something like that)
4962: function OpenObject(const Value: string): Boolean; overload;
4963: function OpenObject(Value: PChar): Boolean; overload;
4964: {$IFDEF MSWINDOWS}
4965: //Raise the last Exception
4966: procedure RaiseLastWin32; overload;
4967: procedure RaiseLastWin32(const Text: string); overload;

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4968: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
        significant 32 bits of a file's binary version number. Typically, this includes the major and minor
        version placed together in one 32-bit Integer. I
4969: function GetFileVersion(const AFileName: string): Cardinal;
4970: {$EXTERNALSYM GetFileVersion}
4971: //Get version of Shell.dll
4972: function GetShellVersion: Cardinal;
4973: {$EXTERNALSYM GetShellVersion}
4974: // CD functions on HW
4975: procedure OpenCdDrive;
4976: procedure CloseCdDrive;
4977: // returns True if Drive is accessible
4978: function DiskInDrive(Drive: Char): Boolean;
4979: {$ENDIF MSWINDOWS}
4980: //Same as linux function ;
4981: procedure PError(const Text: string);
4982: // execute a program without waiting
4983: procedure Exec(const FileName, Parameters, Directory: string);
4984: // execute a program and wait for it to finish
4985: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
4986: // returns True if this is the first instance of the program that is running
4987: function FirstInstance(const ATITLE: string): Boolean;
4988: // restores a window based on it's classname and Caption. Either can be left empty
4989: // to widen the search
4990: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
4991: // manipulate the traybar and start button
4992: procedure HideTraybar;
4993: procedure ShowTraybar;
4994: procedure ShowStartButton(Visible: Boolean = True);
4995: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
4996: procedure MonitorOn;
4997: procedure MonitorOff;
4998: procedure LowPower;
4999: // send a key to the window named AppName
5000: function SendKey(const AppName: string; Key: Char): Boolean;
5001: {$IFDEF MSWINDOWS}
5002: // returns a list of all win currently visible, the Objects property is filled with their window handle
5003: procedure GetVisibleWindows(List: TStrings);
5004: Function GetVisibleWindowsF( List : TStrings):TStrings';
5005: // associates an extension to a specific program
5006: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5007: procedure AddToRecentDocs(const FileName: string);
5008: function GetRecentDocs: TStringList;
5009: {$ENDIF MSWINDOWS}
5010: function CharIsMoney(const Ch: Char): Boolean;
5011: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5012: function IntToExtended(I: Integer): Extended;
5013: { GetChangedText works out the new text given the current cursor pos & the key pressed
      It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5014: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5015: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5016: //function StrIsInteger(const S: string): Boolean;
5017: function StrIsFloatMoney(const Ps: string): Boolean;
5018: function StrIsDateTime(const Ps: string): Boolean;
5019: function PrefORMATDateString(Ps: string): string;
5020: function BooleanToInteger(const B: Boolean): Integer;
5021: function StringToBoolean(const Ps: string): Boolean;
5022: function SafeStrToDateTIme(const Ps: string): TDateTime;
5023: function SafeStrToDate(const Ps: string): TDate;
5024: function SafeStrToTime(const Ps: string): TDateTime;
5025: function StrDelete(const psSub, psMain: string): string;
5026: { returns the fractional value of pcValue}
5027: function TimeOnly(pcValue: TDateTime): TTime;
5028: { returns the integral value of pcValue }
5029: function DateOnly(pcValue: TDateTime): TDate;
5030: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5031: const { TDateTime value used to signify Null value}
5032: NullEquivalentDate: TDateTime = 0.0;
5033: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5034: // Replacement for Win32Check to avoid platform specific warnings in D6
5035: function OSCheck(RetVal: Boolean): Boolean;
5036: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
      Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
      not be forced to use FileCtrl unnecessarily }
5037: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5038: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5039: { MinimizeString truncates long string, S, and appends...' symbols,if Length of S is more than MaxLen }
5040: function MinimizeString(const S: string; const MaxLen: Integer): string;
5041: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5042: { 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. }
5043: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5044: {$ENDIF MSWINDOWS}
5045: procedure ResourceNotFound(ResID: PChar);
5046: function EmptyRect: TRect;
5047: function RectWidth(R: TRect): Integer;
5048: function RectHeight(R: TRect): Integer;

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5052: function CompareRect(const R1, R2: TRect): Boolean;
5053: procedure RectNormalize(var R: TRect);
5054: function RectIsSquare(const R: TRect): Boolean;
5055: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5056: //If AMaxSize = -1 ,then auto calc Square's max size
5057: {$IFDEF MSWINDOWS}
5058: procedure FreeUnusedOle;
5059: function GetWindowsVersion: string;
5060: function LoadDLL(const LibName: string): THandle;
5061: function RegisterServer(const ModuleName: string): Boolean;
5062: function UnregisterServer(const ModuleName: string): Boolean;
5063: {$ENDIF MSWINDOWS}
5064: { String routines }
5065: function GetEnvVar(const VarName: string): string;
5066: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5067: function StringToPChar(var S: string): PChar;
5068: function StrAlloc(const S: string): PChar;
5069: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5070: function DropT(const S: string): string;
5071: { Memory routines }
5072: function AllocMemo(Size: Longint): Pointer;
5073: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5074: procedure FreeMemo(var fpBlock: Pointer);
5075: function GetMemoSize(fpBlock: Pointer): Longint;
5076: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5077: { Manipulate huge pointers routines }
5078: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5079: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5080: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5081: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5082: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5083: function WindowClassName(Wnd: THandle): string;
5084: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5085: procedure ActivateWindow(Wnd: THandle);
5086: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5087: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5088: { SetWindowTop put window to top without recreating window }
5089: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5090: procedure CenterWindow(Wnd: THandle);
5091: function MakeVariant(const Values: array of Variant): Variant;
5092: { Convert dialog units to pixels and backwards }
5093: {$IFDEF MSWINDOWS}
5094: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5095: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5096: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5097: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5098: {$ENDIF MSWINDOWS}
5099: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5100: {$IFDEF BCB}
5101: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5102: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5103: {$ELSE}
5104: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5105: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5106: {$ENDIF BCB}
5107: {$IFDEF MSWINDOWS}
5108: { BrowseForFolderNative displays Browse For Folder dialog }
5109: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5110: {$ENDIF MSWINDOWS}
5111: procedure AntiAlias(AntiAlias: TBitmap);
5112: procedure AntiAliasRect(AntiAlias: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5113: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5114: ABitmap: TBitmap; const SourceRect: TRect);
5115: function IsTrueType(const FontName: string): Boolean;
5116: // Removes all non-numeric characters from AValue and returns the resulting string
5117: function TextToValText(const AValue: string): string;
5118: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean
5119: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings )
5120: Function ReplaceRegExpr( const ARegExpr,AInputStr,
5121: AReplaceStr:RegExprString;AUseSubstitution:bool):RegExprString;
5122: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString
5123: Function RegExprSubExpressions( const ARegExpr:string; ASubExprs:TStrings; AExtendedSyntax : boolean ) :
5124: *****unit uPSI_JvTFUtils;
5125: Function JExtractYear( ADate : TDateTime ) : Word
5126: Function JExtractMonth( ADate : TDateTime ) : Word
5127: Function JExtractDay( ADate : TDateTime ) : Word
5128: Function ExtractHours( ATime : TDateTime ) : Word
5129: Function ExtractMins( ATime : TDateTime ) : Word
5130: Function ExtractSecs( ATime : TDateTime ) : Word
5131: Function ExtractMSecs( ATime : TDateTime ) : Word
5132: Function FirstOfMonth( ADate : TDateTime ) : TDateTime
5133: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word
5134: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word
5135: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer )
5136: Procedure IncDOW( var DOW : TTFDayOfWeek; N : Integer )
5137: Procedure IncDays( var ADate : TDateTime; N : Integer )
5138: Procedure IncWeeks( var ADate : TDateTime; N : Integer )
5139: Procedure IncMonths( var ADate : TDateTime; N : Integer )

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5140: Procedure IncYears( var ADate : TDateTime; N : Integer)
5141: Function EndOfMonth( ADate : TDateTime) : TDateTime
5142: Function IsFirstOfMonth( ADate : TDateTime) : Boolean
5143: Function IsEndOfMonth( ADate : TDateTime) : Boolean
5144: Procedure EnsureMonth( Month : Word)
5145: Procedure EnsureDOW( DOW : Word)
5146: Function EqualDates( D1, D2 : TDateTime) : Boolean
5147: Function Lesser( N1, N2 : Integer) : Integer
5148: Function Greater( N1, N2 : Integer) : Integer
5149: Function GetDivLength( TotalLength, DivCount, DivNum : Integer) : Integer
5150: Function GetDivNum( TotalLength, DivCount, X : Integer) : Integer
5151: Function GetDivStart( TotalLength, DivCount, DivNum : Integer) : Integer
5152: Function DOWToBorl( ADOW : TTDFDayOfWeek) : Integer
5153: Function BorlToDOW( BorlDOW : Integer) : TTDFDayOfWeek
5154: Function DateToDOW( ADate : TDateTime) : TTDFDayOfWeek
5155: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
AFont:TFont;AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5156: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5157: Function JRectWidth( ARect : TRect) : Integer
5158: Function JRectHeight( ARect : TRect) : Integer
5159: Function JEmptyRect : TRect
5160: Function IsClassByName( Obj : TObject; ClassName : string) : Boolean
5161:
5162: procedure SIRegister_MSysUtils(CL: TPPSPascalCompiler);
5163: begin
5164: Procedure HideTaskBarButton( hWindow : HWND)
5165: Function msLoadStr( ID : Integer) : String
5166: Function msFormat( fmt : String; params : array of const) : String
5167: Function msFileExists( const FileName : String) : Boolean
5168: Function msIntToStr( Int : Int64) : String
5169: Function msStrPas( const Str : PChar) : String
5170: Function msRenamefile( const OldName, NewName : String) : Boolean
5171: Function CutFileName( s : String) : String
5172: Function GetVersionInfo( var VersionString : String) : DWORD
5173: Function FormatTime( t : Cardinal) : String
5174: Function msCreateDir( const Dir : string) : Boolean
5175: Function SetAutoRun( NeedAutoRun : Boolean; AppName : String) : Boolean
5176: Function SetTreeVisualStyle( const hTV : HWND; dwNewStyle : dword) : DWORD
5177: Function msStrLen( Str : PChar) : Integer
5178: Function msDirectoryExists( const Directory : String) : Boolean
5179: Function GetFolder( hWnd : hWnd; RootDir : Integer; Caption : String) : String
5180: Function SetBehindWindow( hWnd : HWND; AlphaBlend : Byte) : LongBool
5181: Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
5182: Procedure SetEditWndProc( hWnd : HWND; ptr : TObject)
5183: Function GetTextFromFile( filename : String) : string
5184: Function IsTopMost( hWnd : HWND) : Bool // 'LWA_ALPHA','LongWord').SetUIInt( $00000002);
5185: Function msStrToIntDef( const s : String; const i : Integer) : Integer
5186: Function msStrToInt( s : String) : Integer
5187: Function GetItemText( hDlg : THandle; ID : DWORD) : String
5188: end;
5189:
5190: procedure SIRegister_ESBMaths2(CL: TPPSPascalCompiler);
5191: begin
5192: //TDynFloatArray', 'array of Extended
5193: TDynLWordArray', 'array of LongWord
5194: TDynLIntArray', 'array of LongInt
5195: TDynFloatMatrix', 'array of TDynFloatArray
5196: TDynLWordMatrix', 'array of TDynLWordArray
5197: TDynLIntMatrix', 'array of TDynLIntArray
5198: Function SquareAll( const X : TDynFloatArray) : TDynFloatArray
5199: Function InverseAll( const X : TDynFloatArray) : TDynFloatArray
5200: Function LnAll( const X : TDynFloatArray) : TDynFloatArray
5201: Function Log10All( const X : TDynFloatArray) : TDynFloatArray
5202: Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended) : TDynFloatArray
5203: Function AddVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5204: Function SubVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5205: Function MultVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5206: Function DotProduct( const X, Y : TDynFloatArray) : Extended
5207: Function MNorm( const X : TDynFloatArray) : Extended
5208: Function MatrixIsRectangular( const X : TDynFloatMatrix) : Boolean
5209: Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean);
5210: Function MatrixIsSquare( const X : TDynFloatMatrix) : Boolean
5211: Function MatricesSameDimensions( const X, Y : TDynFloatMatrix) : Boolean
5212: Function AddMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5213: Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5214: Function SubtractMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5215: Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5216: Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended) : TDynFloatMatrix
5217: Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended);
5218: Function MultiplyMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix;
5219: Function TransposeMatrix( const X : TDynFloatMatrix) : TDynFloatMatrix;
5220: Function GrandMean( const X : TDynFloatMatrix; var N : LongWord) : Extended
5221: end;
5222:
5223: procedure SIRegister_ESBMaths(CL: TPPSPascalCompiler);
5224: begin
5225: 'ESBMinSingle','Single').setExtended( 1.5e-45);
5226: 'ESBMaxSingle','Single').setExtended( 3.4e+38);

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5227: 'ESBMinDouble','Double').setExtended( 5.0e-324);
5228: 'ESBMaxDouble','Double').setExtended( 1.7e+308);
5229: 'ESBMinExtended','Extended').setExtended( 3.6e-4951);
5230: 'ESBMaxExtended','Extended').setExtended( 1.1e+4932);
5231: 'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807);
5232: 'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807);
5233: 'ESBSqrt2','Extended').setExtended( 1.4142135623730950488);
5234: 'ESBSqrt3','Extended').setExtended( 1.7320508075688772935);
5235: 'ESBSqrt5','Extended').setExtended( 2.2360679774997896964);
5236: 'ESBSqrt10','Extended').setExtended( 3.1622776601683793320);
5237: 'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729);
5238: 'ESBCbrt2','Extended').setExtended( 1.2599210498948731648);
5239: 'ESBCbrt3','Extended').setExtended( 1.4422495703074083823);
5240: 'ESBCbrt10','Extended').setExtended( 2.1544346900318837219);
5241: 'ESBCbrt100','Extended').setExtended( 4.6415888336127788924);
5242: 'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630);
5243: 'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440);
5244: 'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451);
5245: 'ESBInvSqrt5','Extended').setExtended( 0.44721359549995793928);
5246: 'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695);
5247: 'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147);
5248: 'ESBe','Extended').setExtended( 2.7182818284590452354);
5249: 'ESBe2','Extended').setExtended( 7.3890560989306502272);
5250: 'ESBePi','Extended').setExtended( 23.140692632779269006);
5251: 'ESBePiOn2','Extended').setExtended( 4.810477380965316555);
5252: 'ESBePiOn4','Extended').setExtended( 2.1932800507380154566);
5253: 'ESBLn2','Extended').setExtended( 0.69314718055994530942);
5254: 'ESBLn10','Extended').setExtended( 2.30258509299404568402);
5255: 'ESBLnPi','Extended').setExtended( 1.14472988584940017414);
5256: 'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478);
5257: 'ESBLog2Base10','Extended').setExtended( 0.301029995663981119521);
5258: 'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730);
5259: 'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339);
5260: 'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765);
5261: 'ESBPi','Extended').setExtended( 3.1415926535897932385);
5262: 'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1);
5263: 'ESBTwoPi','Extended').setExtended( 6.2831853071795864769);
5264: 'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5265: 'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5266: 'ESBPiToB','Extended').setExtended( 22.459157718361045473);
5267: 'ESBPiOn2','Extended').setExtended( 1.5707963267948966192);
5268: 'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5269: 'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5270: 'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5271: 'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5272: 'ESBTwoToPower63','Extended').setExtended( 9223372036854775808.0);
5273: 'ESBOneRadian','Extended').setExtended( 57.295779513082320877);
5274: 'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5275: 'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5276: 'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5277: 'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5278: 'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1);
5279: //LongWord', 'Cardinal
5280: TBitList', 'Word
5281: Function UMul( const Num1, Num2 : LongWord) : LongWord
5282: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5283: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5284: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5285: Function SameFloat( const X1, X2 : Extended) : Boolean
5286: Function FloatIsZero( const X : Extended) : Boolean
5287: Function FloatIsPositive( const X : Extended) : Boolean
5288: Function FloatIsNegative( const X : Extended) : Boolean
5289: Procedure IncLim( var B : Byte; const Limit : Byte)
5290: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5291: Procedure IncLimW( var B : Word; const Limit : Word)
5292: Procedure IncLimI( var B : Integer; const Limit : Integer)
5293: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5294: Procedure DecLim( var B : Byte; const Limit : Byte)
5295: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5296: Procedure DecLimW( var B : Word; const Limit : Word)
5297: Procedure DecLimI( var B : Integer; const Limit : Integer)
5298: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5299: Function MaxB( const B1, B2 : Byte) : Byte
5300: Function MinB( const B1, B2 : Byte) : Byte
5301: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5302: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5303: Function MaxW( const B1, B2 : Word) : Word
5304: Function MinW( const B1, B2 : Word) : Word
5305: Function esbMaxI( const B1, B2 : Integer) : Integer
5306: Function esbMinI( const B1, B2 : Integer) : Integer
5307: Function MaxL( const B1, B2 : LongInt) : LongInt
5308: Function MinL( const B1, B2 : LongInt) : LongInt
5309: Procedure SwapB( var B1, B2 : Byte)
5310: Procedure SwapSI( var B1, B2 : ShortInt)
5311: Procedure SwapW( var B1, B2 : Word)
5312: Procedure SwapI( var B1, B2 : SmallInt)
5313: Procedure SwapL( var B1, B2 : LongInt)
5314: Procedure SwapI32( var B1, B2 : Integer)
5315: Procedure SwapC( var B1, B2 : LongWord)

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5316: Procedure SwapInt64( var X, Y : Int64)
5317: Function esbSign( const B : LongInt) : ShortInt
5318: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5319: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5320: Function Max3Word( const X1, X2, X3 : Word) : Word
5321: Function Min3Word( const X1, X2, X3 : Word) : Word
5322: Function MaxBArray( const B : array of Byte) : Byte
5323: Function MaxWArray( const B : array of Word) : Word
5324: Function MaxSIArry( const B : array of ShortInt) : ShortInt
5325: Function MaxIArry( const B : array of Integer) : Integer
5326: Function MaxLArry( const B : array of LongInt) : LongInt
5327: Function MinBArray( const B : array of Byte) : Byte
5328: Function MinWArray( const B : array of Word) : Word
5329: Function MinSIArry( const B : array of ShortInt) : ShortInt
5330: Function MinIArry( const B : array of Integer) : Integer
5331: Function MinLArry( const B : array of LongInt) : LongInt
5332: Function SumBArray( const B : array of Byte) : Byte
5333: Function SumBArray2( const B : array of Byte) : Word
5334: Function SumSIArry( const B : array of ShortInt) : ShortInt
5335: Function SumSIArry2( const B : array of ShortInt) : Integer
5336: Function SumWArray( const B : array of Word) : Word
5337: Function SumWArray2( const B : array of Word) : LongInt
5338: Function SumIArry( const B : array of Integer) : Integer
5339: Function SumLArry( const B : array of LongInt) : LongInt
5340: Function SumLWArray( const B : array of LongWord) : LongWord
5341: Function ESBDigits( const X : LongWord) : Byte
5342: Function BitsHighest( const X : LongWord) : Integer
5343: Function ESBBitsNeeded( const X : LongWord) : Integer
5344: Function esbGCD( const X, Y : LongWord) : LongWord
5345: Function esbLCM( const X, Y : LongInt) : Int64
5346: //Function esbLCM( const X, Y : LongInt) : LongInt
5347: Function RelativePrime( const X, Y : LongWord) : Boolean
5348: Function Get87ControlWord : TBitList
5349: Procedure Set87ControlWord( const CWord : TBitList)
5350: Procedure SwapExt( var X, Y : Extended)
5351: Procedure SwapDbl( var X, Y : Double)
5352: Procedure SwapSing( var X, Y : Single)
5353: Function esbSgn( const X : Extended) : ShortInt
5354: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5355: Function ExtMod( const X, Y : Extended) : Extended
5356: Function ExtRem( const X, Y : Extended) : Extended
5357: Function CompMOD( const X, Y : Comp) : Comp
5358: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5359: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5360: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5361: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5362: Function MaxExt( const X, Y : Extended) : Extended
5363: Function MinExt( const X, Y : Extended) : Extended
5364: Function MaxEArray( const B : array of Extended) : Extended
5365: Function MinEArray( const B : array of Extended) : Extended
5366: Function MaxSArray( const B : array of Single) : Single
5367: Function MinSArray( const B : array of Single) : Single
5368: Function MaxCArray( const B : array of Comp) : Comp
5369: Function MinCArray( const B : array of Comp) : Comp
5370: Function SumSArray( const B : array of Single) : Single
5371: Function SumEArray( const B : array of Extended) : Extended
5372: Function SumSqEArray( const B : array of Extended) : Extended
5373: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5374: Function SumXYEArray( const X, Y : array of Extended) : Extended
5375: Function SumCArray( const B : array of Comp) : Comp
5376: Function FactorialX( A : LongWord) : Extended
5377: Function PermutationX( N, R : LongWord) : Extended
5378: Function esbBinomialCoeff( N, R : LongWord) : Extended
5379: Function IsPositiveEArray( const X : array of Extended) : Boolean
5380: Function esbGeometricMean( const X : array of Extended) : Extended
5381: Function esbHarmonicMean( const X : array of Extended) : Extended
5382: Function ESBMean( const X : array of Extended) : Extended
5383: Function esbSampleVariance( const X : array of Extended) : Extended
5384: Function esbPopulationVariance( const X : array of Extended) : Extended
5385: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5386: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5387: Function GetMedian( const SortedX : array of Extended) : Extended
5388: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5389: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5390: Function ESBMagnitude( const X : Extended) : Integer
5391: Function ESBTan( Angle : Extended) : Extended
5392: Function ESB Cot( Angle : Extended) : Extended
5393: Function ESB Cosec( const Angle : Extended) : Extended
5394: Function ESB Sec( const Angle : Extended) : Extended
5395: Function ESB ArcTan( X, Y : Extended) : Extended
5396: Procedure ESB SinCos( Angle : Extended; var SinX, CosX : Extended)
5397: Function ESB ArcCos( const X : Extended) : Extended
5398: Function ESB ArcSin( const X : Extended) : Extended
5399: Function ESB ArcSec( const X : Extended) : Extended
5400: Function ESB ArcCosec( const X : Extended) : Extended
5401: Function ESB Log10( const X : Extended) : Extended
5402: Function ESB Log2( const X : Extended) : Extended
5403: Function ESB LogBase( const X, Base : Extended) : Extended
5404: Function Pow2( const X : Extended) : Extended

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5405: Function IntPow( const Base : Extended; const Exponent : LongWord ) : Extended
5406: Function ESBIntPower( const X : Extended; const N : LongInt ) : Extended
5407: Function XtoY( const X, Y : Extended ) : Extended
5408: Function esbTenToY( const Y : Extended ) : Extended
5409: Function esbTwoToY( const Y : Extended ) : Extended
5410: Function LogXtoBaseY( const X, Y : Extended ) : Extended
5411: Function esbISqrt( const I : LongWord ) : Longword
5412: Function ILog2( const I : LongWord ) : LongWord
5413: Function IGGreatestPowerOf2( const N : LongWord ) : LongWord
5414: Function ESBArCosh( X : Extended ) : Extended
5415: Function ESBArSinh( X : Extended ) : Extended
5416: Function ESBArTanh( X : Extended ) : Extended
5417: Function ESBCCosh( X : Extended ) : Extended
5418: Function ESBSSinh( X : Extended ) : Extended
5419: Function ESBCTanh( X : Extended ) : Extended
5420: Function InverseGamma( const X : Extended ) : Extended
5421: Function esbGamma( const X : Extended ) : Extended
5422: Function esbLnGamma( const X : Extended ) : Extended
5423: Function esbBeta( const X, Y : Extended ) : Extended
5424: Function IncompleteBeta( X : Extended; P, Q : Extended ) : Extended
5425: end;
5426:
5427: ***** Integer Huge Cardinal Utils*****
5428: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean ) : uint64
5429: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean ) : uint32
5430: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean ) : uint64
5431: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean ) : uint32
5432: Function BitCount_8( Value : byte ) : integer
5433: Function BitCount_16( Value : uint16 ) : integer
5434: Function BitCount_32( Value : uint32 ) : integer
5435: Function BitCount_64( Value : uint64 ) : integer
5436: Function CountSetBits_64( Value : uint64 ) : integer TPrimalityTestNoticeProc',
5437: Procedure ( CountPrimalityTests : integer )
5438: Function gcd( a, b : THugeCardinal ) : THugeCardinal
5439: Function lcm( a, b : THugeCardinal ) : THugeCardinal
5440: Function isCoPrime( a, b : THugeCardinal ) : boolean
5441: Function isProbablyPrime(p: THugeCardinal;OnProgress: TProgress; var wasAborted: boolean): boolean
5442: Function hasSmallFactor( p : THugeCardinal ) : boolean
5443: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest :
TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool;var Prime: THugeCardinal; var
NumbersTested: integer ) : boolean
5444: Function Inverse( Prime, Modulus : THugeCardinal ) : THugeCardinal
5445: Const ('StandardExponent','LongInt'( 65537 );
5446: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
Numbers
5447: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal ) : boolean'
)
5448:
5449: procedure SIRegister_xrtl_math_Integer(CL: TPSPascalCompiler);
5450: begin
5451: AddTypeS('TXRTLInteger', 'array of Integer'
5452: AddClassN(FindClass('TOBJECT'), 'EXRTLMathException'
5453: (FindClass('TOBJECT'), 'EXRTLExtendInvalidArgument'
5454: AddClassN(FindClass('TOBJECT'), 'EXRTLDivisionByZero'
5455: AddClassN(FindClass('TOBJECT'), 'EXRTLExpInvalidArgument'
5456: AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadix'
5457: AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadixDigit'
5458: AddClassN(FindClass('TOBJECT'), 'EXRTLRootInvalidArgument'
5459: 'BitsPerByte', 'LongInt'( 8 );
5460: BitsPerDigit,'LongInt'( 32 );
5461: SignBitMask', 'LongWord( $80000000 );
5462: Function XRTLAdjustBits( const ABits : Integer ) : Integer
5463: Function XRTLLength( const AInteger : TXRTLInteger ) : Integer
5464: Function XRTLDeltaBits( const AInteger : TXRTLInteger ) : Integer
5465: Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer )
5466: Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer )
5467: Procedure XRTLBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer )
5468: Function XRTLBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Integer
5469: Function XRTLBitGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Boolean
5470: Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int8;var AResult:TXRTLInteger):Int
5471: Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5472: Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5473: Function XRTLSignStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5474: Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5475: Procedure XRTLOR( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5476: Procedure XRTLAND( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5477: Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5478: Function XRTLSign( const AInteger : TXRTLInteger ) : Integer
5479: Procedure XRTLZero( var AInteger : TXRTLInteger )
5480: Procedure XRTLOne( var AInteger : TXRTLInteger )
5481: Procedure XRTLMOne( var AInteger : TXRTLInteger )
5482: Procedure XRTLTTwo( var AInteger : TXRTLInteger )
5483: Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5484: Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5485: Procedure XRTLFULLSum( const A, B, C : Integer; var Sum, Carry : Integer )
5486: Function XRTLAAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5487: Function XRTLAAdd1(const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5488: Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5489: Function XRTLSub1( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;

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5490: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger ) : Integer;
5491: Function XRTLCompare( const AInteger1 : TXRTLInteger; const AInteger2 : Int64 ) : Integer;
5492: Function XRTLUMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5493: Function XRTLMulAdd(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer
5494: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5495: Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger );
5496: Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5497: Procedure XRTLSqrt( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5498: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5499: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHighApproxResult:TXRTLInteger)
5500: Procedure XRTLURootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHighApproxResult:TXRTLInteger);
5501: Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5502: Procedure XRTLExpMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult:TXRTLInteger );
5503: Procedure XRTLSLBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5504: Procedure XRTLSABL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5505: Procedure XRTLRCBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5506: Procedure XRTLSLDL(const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger )
5507: Procedure XRTLSADL(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger )
5508: Procedure XRTLRCDL(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger )
5509: Procedure XRTLSLBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5510: Procedure XRTLSABR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5511: Procedure XRTLRCBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5512: Procedure XRTLSLDR(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger )
5513: Procedure XRTLSADR(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger )
5514: Procedure XRTLRCDR(const AInteger: TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger )
5515: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer ) : string
5516: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer ) : string
5517: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer ) : string
5518: Procedure XRTLFFromHex( const Value : string; var AResult : TXRTLInteger )
5519: Procedure XRTLFFromBin( const Value : string; var AResult : TXRTLInteger )
5520: Procedure XRTLFFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer )
5521: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5522: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger );
5523: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger );
5524: Procedure XRTLAppend( const ALow, AHight : TXRTLInteger; var AResult : TXRTLInteger );
5525: Procedure XRTLSplit(const AInteger: TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5526: Function XRTLGetMSBIndex( const AInteger : TXRTLInteger) : Integer
5527: Procedure XRTLMINMax(const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger )
5528: Procedure XRTLMIN( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5529: Procedure XRTLMINl(const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger );
5530: Procedure XRTLMAX( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5531: Procedure XRTLMAXl(const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger );
5532: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5533: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger );
5534: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5535: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5536: end;
5537:
5538: procedure SIRegister_JvXPCoreUtils(CL: TPSCompiler);
5539: begin
5540:   Function JvXPMETHODSEqual( const Method1, Method2 : TMethod ) : Boolean;
5541:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer );
5542:   Procedure JvPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap );
5543:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect );
5544:   Procedure JvXPDrawBoundLines(const ACanvas:TCanvas;const BoundLns:TJvXPBoundLns;const
      AColor:TColor;Rect:TRect );
5545:   Procedure JvXPConvertToGray2( Bitmap : TBitmap );
5546:   Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer );
5547:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool ;
5548:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor );
5549:   Procedure JvXPSetDrawFlags(const AAlignment: TAlignment;const AWordWrap: Boolean; var Flags : Integer );
5550:   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 );
5551: end;
5552:
5553:
5554: procedure SIRegister_uwinstr(CL: TPSCompiler);
5555: begin
5556:   Function StrDec( S : String ) : String;
5557:   Function uIsNumeric( var S : String; var X : Float ) : Boolean;
5558:   Function ReadNumFromEdit( Edit : TEdit ) : Float;
5559:   Procedure WriteNumToFile( var F : Text; X : Float );
5560: end;
5561:
5562: procedure SIRegister_utexplor(CL: TPSCompiler);
5563: begin
5564:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean ) : Boolean;
5565:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean );
5566:   Procedure TeX_LeaveGraphics( Footer : Boolean );
5567:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float );
5568:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float );
5569:   Procedure TeX_SetGraphTitle( Title : String );

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5570: Procedure TeX_SetOxTitle( Title : String)
5571: Procedure TeX_SetOyTitle( Title : String)
5572: Procedure TeX_PlotOxAxis
5573: Procedure TeX_PlotOyAxis
5574: Procedure TeX_PlotGrid( Grid : TGrid)
5575: Procedure TeX_WriteGraphTitle
5576: Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5577: Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5578: Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5579: Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5580: Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5581: Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5582: Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5583: Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5584: Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5585: Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5586: Function Xcm( X : Float) : Float
5587: Function Ycm( Y : Float) : Float
5588: end;
5589:
5590: *-----*)
5591: procedure SIRegister_VarRecUtils(CL: TPSPascalCompiler);
5592: begin
5593:   TConstArray', 'array of TVarRec
5594:   Function CopyVarRec( const Item : TVarRec) : TVarRec
5595:   Function CreateConstArray( const Elements : array of const) : TConstArray
5596:   Procedure FinalizeVarRec( var Item : TVarRec)
5597:   Procedure FinalizeConstArray( var Arr : TConstArray)
5598: end;
5599:
5600: procedure SIRegister_StStrS(CL: TPSPascalCompiler);
5601: begin
5602:   Function HexBS( B : Byte) : ShortString
5603:   Function HexWS( W : Word) : ShortString
5604:   Function HexLS( L : LongInt) : ShortString
5605:   Function HexPtrs( P : Pointer) : ShortString
5606:   Function BinaryBS( B : Byte) : ShortString
5607:   Function BinaryWS( W : Word) : ShortString
5608:   Function BinaryLS( L : LongInt) : ShortString
5609:   Function OctalBS( B : Byte) : ShortString
5610:   Function OctalWS( W : Word) : ShortString
5611:   Function OctalLS( L : LongInt) : ShortString
5612:   Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5613:   Function Str2WordS( const S : ShortString; var I : Word) : Boolean
5614:   Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5615:   Function Str2RealS( const S : ShortString; var R : Double) : Boolean
5616:   Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5617:   Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5618:   Function Long2StrS( L : LongInt) : ShortString
5619:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5620:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5621:   Function ValPrepS( const S : ShortString) : ShortString
5622:   Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5623:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5624:   Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5625:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5626:   Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5627:   Function TrimLeadsS( const S : ShortString) : ShortString
5628:   Function TrimTrailsS( const S : ShortString) : ShortString
5629:   Function TrimS( const S : ShortString) : ShortString
5630:   Function TrimSpacesS( const S : ShortString) : ShortString
5631:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5632:   Function Centers( const S : ShortString; Len : Cardinal) : ShortString
5633:   Function EntabS( const S : ShortString; TabSize : Byte) : ShortString
5634:   Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5635:   Function ScrambleS( const S : ShortString) : ShortString
5636:   Function Substitutes( const S, FromStr,ToStr : ShortString) : ShortString
5637:   Function Filters( const S, Filters : ShortString) : ShortString
5638:   Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5639:   Function CharCounts( const S : ShortString; C : AnsiChar) : Byte
5640:   Function WordCountS( const S, WordDelims : ShortString) : Cardinal
5641:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5642:   Function ExtractWordS( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5643:   Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5644:   Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5645:   Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5646:   Procedure WordWraps(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5647:   Function CompStringS( const S1, S2 : ShortString) : Integer
5648:   Function CompUCStringS( const S1, S2 : ShortString) : Integer
5649:   Function SoundexS( const S : ShortString) : ShortString
5650:   Function MakeLetterSetS( const S : ShortString) : Longint
5651:   Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable)
5652:   Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5653:   Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
Pos:Cardinal):Bool;
5654:   Function DefaultExtensionS( const Name, Ext : ShortString) : ShortString
5655:   Function ForceExtensionS( const Name, Ext : ShortString) : ShortString

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5656: Function JustFilenameS( const PathName : ShortString ) : ShortString
5657: Function JustNameS( const PathName : ShortString ) : ShortString
5658: Function JustExtensionS( const Name : ShortString ) : ShortString
5659: Function JustPathnameS( const PathName : ShortString ) : ShortString
5660: Function AddBackSlashS( const DirName : ShortString ) : ShortString
5661: Function CleanPathNameS( const PathName : ShortString ) : ShortString
5662: Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal ) : Boolean
5663: Function CommaizeS( L : LongInt ) : ShortString
5664: Function CommaizeChS( L : Longint; Ch : AnsiChar ) : ShortString
5665: Function FloatFormS( const Mask:ShortString;R:TstFloat;const LtCurr:SString;Sep,
DecPt:Char):ShortString;
5666: Function LongIntFormS( const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5667: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal ) : Boolean
5668: Function StrStPosS( const P, S : ShortString; var Pos : Cardinal ) : Boolean
5669: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5670: Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal ) : ShortString
5671: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal ) : ShortString
5672: Function StrChDeleteS( const S : ShortString; Pos : Cardinal ) : ShortString
5673: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5674: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5675: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5676: Function CopyLeftS( const S : ShortString; Len : Cardinal ) : ShortString
5677: Function CopyMidS( const S : ShortString; First, Len : Cardinal ) : ShortString
5678: Function CopyRightS( const S : ShortString; First : Cardinal ) : ShortString
5679: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal ) : ShortString
5680: Function CopyFromNthWordS( const S,WordDelims:string;const AWord:String;N:Card;var
SubString:ShortString):Bool;
5681: Function DeleteFromNthWordS( const S,WordDelims:String;AWord:ShortString;N:Card;var
SubStr:ShortString):Bool;
5682: Function CopyFromToWordsS( const S,WordDelims,Word1,Word2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5683: Function DeleteFromToWordsS( const S,WordDelims,Wrd1,Wrd2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5684: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean ) : ShortString
5685: Function DeleteWithinS( const S, Delimiter : ShortString ) : ShortString
5686: Function ExtractTokensS( const S,
Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings ):Cardinal
5687: Function IsChAlphaS( C : Char ) : Boolean
5688: Function IsChNumericS( C : Char; const Numbers : ShortString ) : Boolean
5689: Function IsChAlphaNumerics( C : Char; const Numbers : ShortString ) : Boolean
5690: Function IsStrAlphaS( const S : Shortstring ) : Boolean
5691: Function IsStrNumericS( const S, Numbers : ShortString ) : Boolean
5692: Function IsStrAlphaNumericS( const S, Numbers : ShortString ) : Boolean
5693: Function LastWordS( const S, WordDelims, AWord : ShortString; var Position : Cardinal ) : Boolean
5694: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal ) : Boolean
5695: Function LastStringS( const S, AString : ShortString; var Position : Cardinal ) : Boolean
5696: Function LeftTrimCharsS( const S, Chars : ShortString ) : ShortString
5697: Function KeepCharsS( const S, Chars : ShortString ) : ShortString
5698: Function RepeatStringS( const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen :
Cardinal):ShortString;
5699: Function ReplaceStringS( const S,OldStr,NewStr:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString;
5700: Function ReplaceStringAllS( const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5701: Function ReplaceWordS( const S,WordDelims,OldWord,NewW:SString;N:Cardinal;var
Replacements:Cardinal):ShortString
5702: Function ReplaceWordAllS( const S,WordDelims,OldWord,NewWord:ShortString;var
Replacements:Cardinal):ShortString
5703: Function RightTrimCharsS( const S, Chars : ShortString ) : ShortString
5704: Function StrWithinS( const S,SearchStr: ShortString;Start:Cardinal;var Position:Cardinal):boolean
5705: Function TrimCharsS( const S, Chars : ShortString ) : ShortString
5706: Function WordPosS( const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5707: end;
5708:
5709:
5710: *****unit uPSI_StUtils; from SysTools4*****
5711: Function SignL( L : LongInt ) : Integer
5712: Function SignF( F : Extended ) : Integer
5713: Function MinWord( A, B : Word ) : Word
5714: Function MidWord( W1, W2, W3 : Word ) : Word
5715: Function MaxWord( A, B : Word ) : Word
5716: Function MinLong( A, B : LongInt ) : LongInt
5717: Function MidLong( L1, L2, L3 : LongInt ) : LongInt
5718: Function MaxLong( A, B : LongInt ) : LongInt
5719: Function MinFloat( F1, F2 : Extended ) : Extended
5720: Function MidFloat( F1, F2, F3 : Extended ) : Extended
5721: Function MaxFloat( F1, F2 : Extended ) : Extended
5722: Function MakeInteger16( H, L : Byte ) : SmallInt
5723: Function MakeWordS( H, L : Byte ) : Word
5724: Function SwapNibble( B : Byte ) : Byte
5725: Function SwapWord( L : LongInt ) : LongInt
5726: Procedure SetFlag( var Flags : Word; FlagMask : Word )
5727: Procedure ClearFlag( var Flags : Word; FlagMask : Word )
5728: Function FlagIsSet( Flags, FlagMask : Word ) : Boolean
5729: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte )
5730: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte )
5731: Function ByteFlagIsSet( Flags, FlagMask : Byte ) : Boolean
5732: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt )
5733: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt )

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5734: Function LongFlagIsSet( Flags, FlagMask : LongInt ) : Boolean
5735: Procedure ExchangeBytes( var I, J : Byte)
5736: Procedure ExchangeWords( var I, J : Word)
5737: Procedure ExchangeLongInts( var I, J : LongInt)
5738: Procedure ExchangeStructs( var I, J, Size : Cardinal)
5739: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word)
5740: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal)
5741: Function AddWordToPtr( P : __Pointer; W : Word) : __Pointer
5742: //*****uPSI_STFIN*****
5743: Function AccruedInterestMaturity(Issue,Maturity:TStDate/Rate,Par:Extended;Basis: TStBasis): Extended
5744: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate/Rate,
  Par:Extended;Frequency:TStFrequency; Basis : TStBasis) : Extended
5745: Function BondDuration( Settlement,Maturity:TStDate/Rate,
  Yield:Ext;Frequency:TStFrequency;Basis:TStBasis):Extended
5746: Function BondPrice(Settlement,Maturity:TStDate/Rate,Yield,Redempt:Ext;Freq:TStFrequency;Basis:TStBasis):
  Extended
5747: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
  Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5748: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
  Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5749: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis) : LongInt
5750: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer ) : Extended
5751: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis): Extended;
5752: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5753: Function DollarToDecimalText( DecDollar : Extended) : string
5754: Function DollarToFraction( DecDollar : Extended; Fraction : Integer ) : Extended
5755: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer ) : string
5756: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency ) : Extended
5757: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
  PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended;
5758: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5759: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5760: Function InterestRateS(NPeriods:Int;Pmt,PV,
  FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5761: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5762: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended
5763: Function IsCardValid( const S : string ) : Boolean
5764: Function ModifiedDuration(Settlement,Maturity:TStDate/Rate,
  Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5765: Function ModifiedIRR(const Values : array of Double; FinanceRate,ReinvestRate: Extended ) : Extended
5766: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended ) : Extended
5767: Function NetPresentValueS( Rate : Extended; const Values : array of Double ) : Extended
5768: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer ) : Extended
5769: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency ) : Extended
5770: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5771: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5772: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
  : TStPaymentTime) : Extended
5773: Function Periods(Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5774: Function PresentValueS( Rate : Extended; NPeriods : Integer; Pmt, FV: Extended; Frequency : TStFrequency;
  Timing : TStPaymentTime) : Extended
5775: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5776: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5777: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5778: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5779: Function TBillyield( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5780: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
  Factor : Extended; NoSwitch : boolean ) : Extended
5781: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5782: Function YieldPeriodic(Settlement,Maturity:TStDate/Rate,Price,
  Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5783: Function YieldMaturity(Issue,Settlement,Maturity:TStDate/Rate,Price:Extended;Basis:TStBasis):Extended;
5784:
5785: //*****unit uPSI_StAstroP;
5786: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5787: //*****unit unit uPSI_StStat; Statistic Package of SysTools*****
5788: Function AveDev( const Data : array of Double ) : Double
5789: Function AveDev16( const Data, NData : Integer ) : Double
5790: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5791: Function Correlation( const Data1, Data2 : array of Double ) : Double
5792: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5793: Function Covariance( const Data1, Data2 : array of Double ) : Double
5794: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5795: Function DevSq( const Data : array of Double ) : Double
5796: Function DevSq16( const Data, NData : Integer ) : Double
5797: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5798: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5799: Function GeometricMeanS( const Data : array of Double ) : Double
5800: Function GeometricMean16( const Data, NData : Integer ) : Double
5801: Function HarmonicMeanS( const Data : array of Double ) : Double
5802: Function HarmonicMean16( const Data, NData : Integer ) : Double
5803: Function Largest( const Data : array of Double; K : Integer ) : Double
5804: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5805: Function MedianS( const Data : array of Double ) : Double
5806: Function Median16( const Data, NData : Integer ) : Double
5807: Function Mode( const Data : array of Double ) : Double
5808: Function Mode16( const Data, NData : Integer ) : Double
5809: Function Percentile( const Data : array of Double; K : Double ) : Double
5810: Function Percentile16( const Data, NData : Integer; K : Double ) : Double

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5811: Function PercentRank( const Data : array of Double; X : Double) : Double
5812: Function PercentRank16( const Data, NData : Integer; X : Double) : Double
5813: Function Permutations( Number, NumberChosen : Integer) : Extended
5814: Function Combinations( Number, NumberChosen : Integer) : Extended
5815: Function Factorials( N : Integer) : Extended
5816: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean) : Integer
5817: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean) : Integer
5818: Function Smallest( const Data : array of Double; K : Integer) : Double
5819: Function Smallest16( const Data, NData : Integer; K : Integer) : Double
5820: Function TrimMean( const Data : array of Double; Percent : Double) : Double
5821: Function TrimMean16( const Data, NData : Integer; Percent : Double) : Double
5822: AddTypes('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB' + 1 : Double; R2 : Double; sigma :Double; SSR: double; SSE: Double; F0 : Double; df : Integer; end
5823: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool;
5824: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool;
5825: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5826: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5827: Function Intercept( const KnownY : array of Double; const KnownX : array of Double) : Double
5828: Function RSquared( const KnownY : array of Double; const KnownX : array of Double) : Double
5829: Function Slope( const KnownY : array of Double; const KnownX : array of Double) : Double
5830: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double) : Double
5831: Function BetaDist( X, Alpha, Beta, A, B : Single) : Single
5832: Function BetaInv( Probability, Alpha, Beta, A, B : Single) : Single
5833: Function BinomDist( NumberS, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean) : Single
5834: Function Critbinom( Trials : Integer; ProbabilityS, Alpha : Single) : Integer
5835: Function ChiDist( X : Single; DegreesFreedom : Integer) : Single
5836: Function ChiInv( Probability : Single; DegreesFreedom : Integer) : Single
5837: Function ExponDist( X, Lambda : Single; Cumulative : Boolean) : Single
5838: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5839: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5840: Function LogNormDist( X, Mean, StandardDev : Single) : Single
5841: Function LogInv( Probability, Mean, StandardDev : Single) : Single
5842: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean) : Single
5843: Function NormInv( Probability, Mean, StandardDev : Single) : Single
5844: Function NormSDist( Z : Single) : Single
5845: Function NormSInv( Probability : Single) : Single
5846: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5847: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5848: Function TInv( Probability : Single; DegreesFreedom : Integer) : Single
5849: Function Erfc( X : Single) : Single
5850: Function GammaLn( X : Single) : Single
5851: Function LargestSort( const Data : array of Double; K : Integer) : Double
5852: Function SmallestSort( const Data : array of double; K : Integer) : Double
5853:
5854:
5855: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5856:   Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt) : LongInt
5857:   Function MinimumHeapToUse( RecLen : Cardinal) : LongInt
5858:   Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt) : TMergeInfo
5859:   Function DefaultMergeName( MergeNum : Integer) : string
5860:   Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5861:
5862: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5863: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double) : TStTime
5864: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double) : TStRiseSetRec
5865: Function SunPos( UT : TStDateTimeRec) : TStPosRec
5866: Function SunPosPrim( UT : TStDateTimeRec) : TStSunXYZRec
5867: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5868: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5869: Function LunarPhase( UT : TStDateTimeRec) : Double
5870: Function MoonPos( UT : TStDateTimeRec) : TStMoonPosRec
5871: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5872: Function FirstQuarter( D : TStDate) : TStLunarRecord
5873: Function FullMoon( D : TStDate) : TStLunarRecord
5874: Function LastQuarter( D : TStDate) : TStLunarRecord
5875: Function NewMoon( D : TStDate) : TStLunarRecord
5876: Function NextFirstQuarter( D : TStDate) : TStDateTimeRec
5877: Function NextFullMoon( D : TStDate) : TStDateTimeRec
5878: Function NextLastQuarter( D : TStDate) : TStDateTimeRec
5879: Function NextNewMoon( D : TStDate) : TStDateTimeRec
5880: Function PrevFirstQuarter( D : TStDate) : TStDateTimeRec
5881: Function PrevFullMoon( D : TStDate) : TStDateTimeRec
5882: Function PrevLastQuarter( D : TStDate) : TStDateTimeRec
5883: Function PrevNewMoon( D : TStDate) : TStDateTimeRec
5884: Function SiderealTime( UT : TStDateTimeRec) : Double
5885: Function Solstice( Y, Epoch : Integer; Summer : Boolean) : TStDateTimeRec
5886: Function Equinox( Y, Epoch : Integer; Vernal : Boolean) : TStDateTimeRec
5887: Function SEaster( Y, Epoch : Integer) : TStDate
5888: Function DateToAJD( D : TDateTime) : Double
5889: Function HoursMin( RA : Double) : shortstring
5890: Function DegrMin( DC : Double) : ShortString
5891: Function AJDToDate( D : Double) : TDateTime
5892:
5893: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5894:   Function CurrentDate : TStDate
5895:   Function StValidDate( Day, Month, Year, Epoch : Integer) : Boolean
5896:   Function DMYtoStDate( Day, Month, Year, Epoch : Integer) : TStDate
5897:   Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer)

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5898: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer ) : TStDate
5899: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer ) : TStDate
5900: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer )
5901: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType ) : TStDate
5902: Function WeekOfYear( Julian : TStDate ) : Byte
5903: Function AstJulianDate( Julian : TStDate ) : Double
5904: Function AstJulianDateToTStDate( AstJulian : Double; Truncate : Boolean ) : TStDate
5905: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime ) : Double
5906: Function StDayOfWeek( Julian : TStDate ) : TStDayType
5907: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer ) : TStDayType
5908: Function StIsLeapYear( Year : Integer ) : Boolean
5909: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer ) : Integer
5910: Function ResolveEpoch( Year, Epoch : Integer ) : Integer
5911: Function ValidTime( Hours, Minutes, Seconds : Integer ) : Boolean
5912: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte )
5913: Function HMSToTStTime( Hours, Minutes, Seconds : Byte ) : TStTime
5914: Function CurrentTime : TStTime
5915: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte )
5916: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5917: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5918: Function RoundToNearestHour( T : TStTime; Truncate : Boolean ) : TStTime
5919: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean ) : TStTime
5920: Procedure DateTimeDiff( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt
5921: Procedure IncDateTime( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt )
5922: Function DateTimeToTStDate( DT : TDateTime ) : TStDate
5923: Function DateTimeToTStTime( DT : TDateTime ) : TStTime
5924: Function StDateToDateTime( D : TStDate ) : TDateTime
5925: Function StTimeToDateTime( T : TStTime ) : TDateTime
5926: Function Convert2ByteDate( TwoByteDate : Word ) : TStDate
5927: Function Convert4ByteDate( FourByteDate : TStDate ) : Word
5928:
5929: Procedure SIRegister_StDateSt(CL: TPPascalCompiler);
5930: Function DateStringHMSToAstJD( const Picture, DS : string; H, M, S, Epoch : integer ) : Double
5931: Function MonthToString( const Month : Integer ) : string
5932: Function DateStringToTStDate( const Picture, S : string; Epoch : Integer ) : TStDate
5933: Function DateStringToDMY( const Picture,S:string;Epoch:Integer; var D, M, Y : Integer ):Boolean
5934: Function StDateToString( const Picture : string; const Julian : TStDate; Pack : Boolean):string
5935: Function DayOfWeekToString( const WeekDay : TStDayType ) : string
5936: Function DMYToString( const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string;
5937: Function CurrentDateString( const Picture : string; Pack : Boolean ) : string
5938: Function CurrentTimeString( const Picture : string; Pack : Boolean ) : string
5939: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer ) : Boolean
5940: Function TimeStringToTStTime( const Picture, S : string ) : TStTime
5941: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5942: Function StTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5943: Function DateStringIsBlank( const Picture, S : string ) : Boolean
5944: Function InternationalDate( ForceCentury : Boolean ) : string
5945: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean ) : string
5946: Function InternationalTime( ShowSeconds : Boolean ) : string
5947: Procedure ResetInternationalInfo
5948:
5949: procedure SIRegister_StBase(CL: TPPascalCompiler);
5950: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer ) : Boolean
5951: Function AnsiUpperCaseShort32( const S : string ) : string
5952: Function AnsiCompareTextShort32( const S1, S2 : string ) : Integer
5953: Function AnsiCompareStrShort32( const S1, S2 : string ) : Integer
5954: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer ) : Longint
5955: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
5956: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte )
5957: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal )
5958: Function Upcase( C : AnsiChar ) : AnsiChar
5959: Function LoCase( C : AnsiChar ) : AnsiChar
5960: Function CompareLetterSets( Set1, Set2 : LongInt ) : Cardinal
5961: Function CompStruct( const S1, S2, Size : Cardinal ) : Integer
5962: Function Search( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
5963: Function StSearch(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5964: Function SearchUC(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5965: Function IsOrInheritsFrom( Root, Candidate : TClass ) : boolean
5966: Procedure RaiseContainerError( Code : longint )
5967: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const )
5968: Function ProductOverflow( A, B : LongInt ) : Boolean
5969: Function StNewStr( S : string ) : PShortString
5970: Procedure StDisposeStr( PS : PShortString )
5971: Procedure VallongInt( S : ShortString; var LI : Longint; var ErrorCode : integer )
5972: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer )
5973: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer )
5974: Procedure RaiseStError( ExceptionClass : EStExceptionClass; Code : LongInt )
5975: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt )
5976: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string )
5977:
5978: procedure SIRegister_usvd(CL: TPPascalCompiler);
5979: begin
5980: Procedure SV_DecomP( A : TMATRIX; Lb, Ub1, Ub2 : Integer; S : TVector; V : TMATRIX )
5981: Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float )
5982: Procedure SV_Solve(U:TMATRIX; S:TVector;V:TMATRIX;B:TVector;Lb,Ub1,Ub2:Integer;X:TVector );
5983: Procedure SV_Approx( U : TMATRIX; S : TVector; V : TMATRIX; Lb, Ub1, Ub2 : Integer; A : TMATRIX )
5984: Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int;
5985: end;
5986:

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5987: //*****unit unit ; StMath Package of SysTools*****
5988: Function IntPowerS( Base : Extended; Exponent : Integer) : Extended
5989: Function PowerS( Base, Exponent : Extended) : Extended
5990: Function StInvCos( X : Double) : Double
5991: Function StInvSin( Y : Double) : Double
5992: Function StInvTan2( X, Y : Double) : Double
5993: Function StTan( A : Double) : Double
5994: Procedure DumpException; //unit STExpEng;
5995: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
5996:
5997: //*****unit unit ; StCRC Package of SysTools*****
5998: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
5999: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6000: Function Adler32OfFile( FileName : AnsiString) : LongInt
6001: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6002: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6003: Function Crc16OfFile( FileName : AnsiString) : Cardinal
6004: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6005: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6006: Function Crc32OfFile( FileName : AnsiString) : LongInt
6007: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6008: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6009: Function InternetSumOfFile( FileName : AnsiString) : Cardinal
6010: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6011: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6012: Function Kermit16OfFile( FileName : AnsiString) : Cardinal
6013:
6014: //*****unit unit ; StBCD Package of SysTools*****
6015: Function AddBcd( const B1, B2 : Tbcds) : Tbcds
6016: Function SubBcd( const B1, B2 : Tbcds) : Tbcds
6017: Function MulBcd( const B1, B2 : Tbcds) : Tbcds
6018: Function DivBcd( const B1, B2 : Tbcds) : Tbcds
6019: Function ModBcd( const B1, B2 : Tbcds) : Tbcds
6020: Function NegBcd( const B : Tbcds) : Tbcds
6021: Function AbsBcd( const B : Tbcds) : Tbcds
6022: Function FracBcd( const B : Tbcds) : Tbcds
6023: Function IntBcd( const B : Tbcds) : Tbcds
6024: Function RoundDigitsBcd( const B : Tbcds; Digits : Cardinal) : Tbcds
6025: Function RoundPlacesBcd( const B : Tbcds; Places : Cardinal) : Tbcds
6026: Function ValBcd( const S : string) : Tbcds
6027: Function LongBcd( L : LongInt) : Tbcds
6028: Function ExtBcd( E : Extended) : Tbcds
6029: Function ExpBcd( const B : Tbcds) : Tbcds
6030: Function LnBcd( const B : Tbcds) : Tbcds
6031: Function IntPowBcd( const B : Tbcds; E : LongInt) : Tbcds
6032: Function PowBcd( const B, E : Tbcds) : Tbcds
6033: Function SqrtBcd( const B : Tbcds) : Tbcds
6034: Function CmpBcd( const B1, B2 : Tbcds) : Integer
6035: Function EqDigitsBcd( const B1, B2 : Tbcds; Digits : Cardinal) : Boolean
6036: Function EqPlacesBcd( const B1, B2 : Tbcds; Digits : Cardinal) : Boolean
6037: Function IsIntBcd( const B : Tbcds) : Boolean
6038: Function TruncBcd( const B : Tbcds) : LongInt
6039: Function BcdExt( const B : Tbcds) : Extended
6040: Function RoundBcd( const B : Tbcds) : LongInt
6041: Function StrBcd( const B : Tbcds; Width, Places : Cardinal) : string
6042: Function StrExpBcd( const B : Tbcds; Width : Cardinal) : string
6043: Function FormatBcd( const Format : string; const B : Tbcds) : string
6044: Function StrGeneralBcd( const B : Tbcds) : string
6045: Function FloatFormBcd(const Mask:string;B:Tbcds;const LtCurr,RtCurr:string;Sep,DecPt:AnsiChar):string
6046: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte)
6047:
6048: //*****unit unit ; StTxtDat; TStTextDataRecordSet Package of SysTools*****
6049: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings)
6050: Function StFieldTypeToStr( FieldType : TStSchemaFieldType) : AnsiString
6051: Function StStrToFieldType( const S : AnsiString) : TStSchemaFieldType
6052: Function StDoEscape( const EscStr : AnsiString) : Char
6053: Function StDoEscape( Delim : Char) : AnsiString
6054: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char) : AnsiString
6055: Function AnsiHashText( const S : string; Size : Integer) : Integer
6056: Function AnsiHashStr( const S : string; Size : Integer) : Integer
6057: Function AnsiELFHashText( const S : string; Size : Integer) : Integer
6058: Function AnsiELFHashStr( const S : string; Size : Integer) : Integer
6059:
6060: //*****unit unit ; StNetCon Package of SysTools*****
6061: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6062:   Constructor Create( AOwner : TComponent);
6063:   Function Connect : DWord
6064:   Function Disconnect : DWord
6065:   RegisterProperty('Password', 'String', iptrw);
6066:   Property('UserName', 'String', iptrw);
6067:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6068:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6069:   Property('LocalDevice', 'String', iptrw);
6070:   Property('ServerName', 'String', iptrw);
6071:   Property('ShareName', 'String', iptrw);
6072:   Property('OnConnect', 'TNotifyEvent', iptrw);
6073:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6074:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6075:   Property('OnDisconnect', 'TNotifyEvent', iptrw);

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6076:     Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6077:     Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6078:   end;
6079: //*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6080: / 153 unit uPSI_SyncObjs; unit uPSIParallelJobs;
6081: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection);
6082: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection);
6083: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection);
6084: Function InitializeCriticalSectionAndSpinCount(var
6085:   lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6086: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6087: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL;
6088: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection );
6089: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL;
6090: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL;
6091: Function SuspendThread( hThread : THandle ) : DWORD;
6092: Function ResumeThread( hThread : THandle ) : DWORD;
6093: Function CreateThread2(ThreadFunc: TThreadFunction2; thrid: DWord) : THandle;
6094: Function GetCurrentThread : THandle;
6095: Procedure ExitThread( dwExitCode : DWORD );
6096: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD ) : BOOL;
6097: Procedure EndThread(ExitCode: Integer);
6098: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD;
6099: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC;
6100: Procedure FreeProcInstance( Proc : FARPROC );
6101: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD );
6102: Function DisableThreadLibraryCalls( hLibModule : HMODULE ) : BOOL;
6103: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6104: Procedure ParallelJob1( ATarGet : Pointer; AParam : Pointer; ASafeSection : boolean );
6105: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarGet:Ptr;AParam:Pointer;ASafeSection:bool);
6106: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarGet:Pointer;AParam:Pointer;ASafeSection:boolean );
6107: Function CreateParallelJob(ASelf:TObject;ATarGet:Pointer;AParam:Ptr;ASafeSection:bool):TParallelJob;
6108: Function CreateParallelJob1(ATarGet:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6109: Function CurrentParallelJobInfo : TParallelJobInfo;
6110: Function ObtainParallelJobInfo : TParallelJobInfo;
6111: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo );
6112: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD ) : BOOL';
6113: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle ) : BOOL';
6114: Function DeviceIoControl( hDevice : THandle; dwIoControlCode : DWORD; lpInBuffer : TObject; nInBufferSize : DWORD; lpOutBuffer: TObject; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped : TOverlapped ) : BOOL';
6115: Function SetFileTime( hFile : THandle; lpCreationTime, lpLastAccessTime, lpLastWriteTime : TFileTime ) : BOOL';
6116: Function DuplicateHandle( hSourceProcessHandle, hSourceHandle, hTargetProcessHandle : THandle; lpTargetHandle : THandle; dwDesiredAccess : DWORD; bInheritHandle : BOOL; dwOptions : DWORD ) : BOOL';
6117: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD ) : BOOL';
6118: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD ) : BOOL';
6119:
6120: *****unit uPSI_JclMime;
6121: Function MimeEncodeString( const S : AnsiString ) : AnsiString;
6122: Function MimeDecodeString( const S : AnsiString ) : AnsiString;
6123: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream );
6124: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream );
6125: Function MimeEncodedSize( const I : Cardinal ) : Cardinal;
6126: Function MimeDecodedSize( const I : Cardinal ) : Cardinal;
6127: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer );
6128: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6129: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
6130:   OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : Cardinal;
6131: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card) :
6132: *****unit uPSI_JclPrint;
6133: Procedure DirectPrint( const Printer, Data : string );
6134: Procedure SetPrinterPixelsPerInch;
6135: Function GetPrinterResolution : TPoint;
6136: Function CharFitsWithinDots( const Text : string; const Dots : Integer ) : Integer;
6137: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect );
6138:
6139:
6140: *****unit uPSI_ShLwApi;*****
6141: Function StrChr( lpStart : PChar; wMatch : WORD ) : PChar;
6142: Function StrChri( lpStart : PChar; wMatch : WORD ) : PChar;
6143: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer;
6144: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer;
6145: Function StrCSpn( lpStr_, lpSet : PChar ) : Integer;
6146: Function StrCSpnI( lpStr1, lpSet : PChar ) : Integer;
6147: Function StrDup( lpSrch : PChar ) : PChar;
6148: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT ) : PChar;
6149: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT ) : PChar;
6150: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer;
6151: Function StrIsIntEqual( fCaseSens : Boolean; lpString1, lpString2 : PChar; nChar : Integer ) : Boolean;
6152: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar;
6153: Function StrPBrk( psz, pszSet : PChar ) : PChar;
6154: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar;
6155: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar;
6156: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar;
6157: Function StrSpn( psz, pszSet : PChar ) : Integer;

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6158: Function StrStr( lpFirst, lpSrch : PChar ) : PChar
6159: Function StrStrI( lpFirst, lpSrch : PChar ) : PChar
6160: Function StrToInt( lpSrch : PChar ) : Integer
6161: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer ) : BOOL
6162: Function StrTrim( psz : PChar; pszTrimChars : PChar ) : BOOL
6163: Function ChrCmpI( w1, w2 : WORD ) : BOOL
6164: Function ChrCmpIA( w1, w2 : WORD ) : BOOL
6165: Function ChrCmpIW( w1, w2 : WORD ) : BOOL
6166: Function StrIntEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6167: Function StrIntEqNI( s1, s2 : PChar; nChar : Integer ) : BOOL
6168: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer ) : PChar
6169: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6170: Function IntToStrEqWorker( fCaseSens : Boolean; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6171: Function IntToStrEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6172: SZ_CONTENTTYPE_HTMLA', 'String 'text/html'
6173: SZ_CONTENTTYPE_HTMLW', 'String 'text/html'
6174: SZ_CONTENTTYPE_CDF', 'String SZ_CONTENTTYPE_CDF'
6175: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf'
6176: SZ_CONTENTTYPE_CDF', 'String 'application/x-cdf'
6177: SZ_CONTENTTYPE_CDF', 'String SZ_CONTENTTYPE_CDF'
6178: Function PathIsHTMLFile( pszPath : PChar ) : BOOL
6179: STIF_DEFAULT', 'LongWord( $00000000);
6180: STIF_SUPPORT_HEX', 'LongWord( $00000001);
6181: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6182: Function StrNCopy( psz1, psz2 : PChar; cchMax : Integer ) : PChar
6183: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6184: Function PathAddBackslash( pszPath : PChar ) : PChar
6185: Function PathAddExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6186: Function PathAppend( pszPath : PChar; pMore : PChar ) : BOOL
6187: Function PathBuildRoot( szRoot : PChar; iDrive : Integer ) : PChar
6188: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar ) : BOOL
6189: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar ) : PChar
6190: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT ) : BOOL
6191: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD ) : BOOL
6192: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar ) : Integer
6193: Function PathFileExists( pszPath : PChar ) : BOOL
6194: Function PathFindExtension( pszPath : PChar ) : PChar
6195: Function PathFindFileName( pszPath : PChar ) : PChar
6196: Function PathFindNextComponent( pszPath : PChar ) : PChar
6197: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6198: Function PathGetArgs( pszPath : PChar ) : PChar
6199: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6200: Function PathIsLFNfileSpec( lpName : PChar ) : BOOL
6201: Function PathGetCharType( ch : Char ) : UINT
6202: GCT_INVALID', 'LongWord( $0000);
6203: GCT_LFNCHAR', 'LongWord( $0001);
6204: GCT_SHORTCHAR', 'LongWord( $0002);
6205: GCT_WILD', 'LongWord( $0004);
6206: GCT_SEPARATOR', 'LongWord( $0008);
6207: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6208: Function PathIsDirectory( pszPath : PChar ) : BOOL
6209: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6210: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6211: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6212: Function PathIsRelative( pszPath : PChar ) : BOOL
6213: Function PathIsRoot( pszPath : PChar ) : BOOL
6214: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6215: Function PathIsUNC( pszPath : PChar ) : BOOL
6216: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6217: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6218: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6219: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6220: Function PathIsURL( pszPath : PChar ) : BOOL
6221: Function PathMakePretty( pszPath : PChar ) : BOOL
6222: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6223: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6224: Procedure PathQuoteSpaces( lpsz : PChar )
6225: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6226: Procedure PathRemoveArgs( pszPath : PChar )
6227: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6228: Procedure PathRemoveBlanks( pszPath : PChar )
6229: Procedure PathRemoveExtension( pszPath : PChar )
6230: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6231: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6232: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6233: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar )
6234: Function PathSkipRoot( pszPath : PChar ) : PChar
6235: Procedure PathStripPath( pszPath : PChar )
6236: Function PathStripToRoot( pszPath : PChar ) : BOOL
6237: Procedure PathUnquoteSpaces( lpsz : PChar )
6238: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6239: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6240: Function PathIsSystemFolder( pszPath : PChar; dwAttrb : DWORD ) : BOOL
6241: Procedure PathUndecorate( pszPath : PChar )
6242: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6243: URL_SCHEME_INVALID', 'LongInt'( -1);
6244: URL_SCHEME_UNKNOWN', 'LongInt'( 0);
6245: URL_SCHEME_FTP', 'LongInt'( 1);
6246: URL_SCHEME_HTTP', 'LongInt'( 2);

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6247: URL_SCHEME_GOPHER', 'LongInt'( 3);
6248: URL_SCHEME_MAILTO', 'LongInt'( 4);
6249: URL_SCHEME_NEWS', 'LongInt'( 5);
6250: URL_SCHEME_NNTP', 'LongInt'( 6);
6251: URL_SCHEME_TELNET', 'LongInt'( 7);
6252: URL_SCHEME_WAIS', 'LongInt'( 8);
6253: URL_SCHEME_FILE', 'LongInt'( 9);
6254: URL_SCHEME_MK', 'LongInt'( 10);
6255: URL_SCHEME_HTTPS', 'LongInt'( 11);
6256: URL_SCHEME_SHELL', 'LongInt'( 12);
6257: URL_SCHEME_SNEWS', 'LongInt'( 13);
6258: URL_SCHEME_LOCAL', 'LongInt'( 14);
6259: URL_SCHEME_JAVASCRIPT', 'LongInt'( 15);
6260: URL_SCHEME_VBSCRIPT', 'LongInt'( 16);
6261: URL_SCHEME_ABOUT', 'LongInt'( 17);
6262: URL_SCHEME_RES', 'LongInt'( 18);
6263: URL_SCHEME_MAXVALUE', 'LongInt'( 19);
6264: URL_SCHEME', 'Integer
6265: URL_PART_NONE', 'LongInt'( 0);
6266: URL_PART_SCHEME', 'LongInt'( 1);
6267: URL_PART_HOSTNAME', 'LongInt'( 2);
6268: URL_PART_USERNAME', 'LongInt'( 3);
6269: URL_PART_PASSWORD', 'LongInt'( 4);
6270: URL_PART_PORT', 'LongInt'( 5);
6271: URL_PART_QUERY', 'LongInt'( 6);
6272: URL_PART', 'DWORD
6273: URLIS_URL', 'LongInt'( 0);
6274: URLIS_OPAQUE', 'LongInt'( 1);
6275: URLIS_NOHISTORY', 'LongInt'( 2);
6276: URLIS_FILEURL', 'LongInt'( 3);
6277: URLIS_APPLICABLE', 'LongInt'( 4);
6278: URLIS_DIRECTORY', 'LongInt'( 5);
6279: URLIS_HASQUERY', 'LongInt'( 6);
6280: TUrlis', 'DWORD
6281: URL_UNESCAPE', 'LongWord( $10000000);
6282: URL_ESCAPE_UNSAFE', 'LongWord( $20000000);
6283: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000);
6284: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6285: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000);
6286: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000);
6287: URL_DONT_SIMPLIFY', 'LongWord( $08000000);
6288: URL_NO_META', 'longword( URL_DONT_SIMPLIFY);
6289: URL_UNESCAPE_INPLACE', 'LongWord( $00100000);
6290: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000);
6291: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000);
6292: URL_INTERNAL_PATH', 'LongWord( $00800000);
6293: URL_FILE_USE_PATHURL', 'LongWord( $00010000);
6294: URL_ESCAPE_PERCENT', 'LongWord( $00001000);
6295: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000);
6296: URL_PARTFLAG_KEEPSHEME', 'LongWord( $00000001);
6297: URL_APPLY_DEFAULT', 'LongWord( $00000001);
6298: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002);
6299: URL_APPLY_GUESSFILE', 'LongWord( $00000004);
6300: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008);
6301: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL) : Integer
6302: Function UrlCombine(pszBase,pszRelative:PChar;pszCombin:PChar;out pcchCombin:DWORD;dwFlags:DWORD) : HRESULT;
6303: Function UrlCanonicalize(pszUrl:PChar;pszCanonicalized:PChar;pcchCanonic:DWORD;dwFlags:DWORD) : HRESULT;
6304: Function UrlIsOpaque( pszURL : PChar) : BOOL
6305: Function UrlIsNoHistory( pszURL : PChar) : BOOL
6306: Function UrlIsFileUrl( pszURL : PChar) : BOOL
6307: Function UrlIs( pszUrl : PChar; UrlIs : TUrlIs) : BOOL
6308: Function UrlGetLocation( psz1 : PChar) : PChar
6309: Function UrlUnescape( pszUrl, pszUnescaped : PChar;pcchUnescaped:DWORD; dwFlags : DWORD) : HRESULT
6310: Function UrlEscape(pszUrl: PChar; pszEscaped: PChar; pcchEscaped:DWORD; dwFlags : DWORD) : HRESULT
6311: Function UrlCreateFromPath(pszPath:PChar; pszUrl: PChar;pcchUrl: DWORD; dwFlags : DWORD) : HRESULT
6312: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD) : HRESULT
6313: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD) : HRESULT
6314: Function UrlGetPart(pszIn: PChar; pszOut: PChar; pcchOut: DWORD; dwPart,dwFlags: DWORD) : HRESULT
6315: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD) : HRESULT
6316: Function HashData( pbData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD) : HRESULT
6317: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD) : HRESULT
6318: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD) : HRESULT
6319: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6320: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6321: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar) : DWORD
6322: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD) : Longint
6323: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName:PChar; var
pcchValueName:DWORD;pdwType:DWORD; pvData : __Pointer; pcbData : DWORD) : Longint
6324: Function SHQueryInfoKey(hKey:HKEY;pcSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6325: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD) : DWORD
6326: Function SHRegGetPath(hKey:HKEY; ppszSubKey,pcszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6327: Function SHRegSetPath( hKey:HKEY; ppszSubKey, pcSzValue, pcSzPath : PChar; dwFlags : DWORD): DWORD
6328: SHREGDEL_DEFAULT', 'LongWord( $00000000);
6329: SHREGDEL_HKCU', 'LongWord( $00000001);
6330: SHREGDEL_HKLM', 'LongWord( $00000010);
6331: SHREGDEL_BOTH', 'LongWord( $00000011);
6332: SHREGENUM_DEFAULT', 'LongWord( $00000000);
6333: SHREGENUM_HKCU', 'LongWord( $00000001);
6334: SHREGENUM_HKLM', 'LongWord( $00000010);

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6335: SHREGENUM_BOTH', 'LongWord( $00000011);
6336: SHREGSET_HKCU', 'LongWord( $00000001);
6337: SHREGSET_FORCE_HKCU', 'LongWord( $00000002);
6338: SHREGSET_HKLM', 'LongWord( $00000004);
6339: SHREGSET_FORCE_HKLM', 'LongWord( $00000008);
6340: TSHRegDelFlags', 'DWORD
6341: TSHRegEnumFlags', 'DWORD
6342: HUSKEY', 'THandle
6343: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001);
6344: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002);
6345: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002);
6346: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004);
6347: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008);
6348: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010);
6349: ASSOCF_NOTRUNCATE', 'LongWord( $00000020);
6350: ASSOCF_VERIFY', 'LongWord( $00000040);
6351: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080);
6352: ASSOCF_NOFIXUPS', 'LongWord( $00000100);
6353: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200);
6354: ASSOCF', 'DWORD
6355: ASSOCSTR_COMMAND', 'LongInt'( 1);
6356: ASSOCSTR_EXECUTABLE', 'LongInt'( 2);
6357: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3);
6358: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4);
6359: ASSOCSTR_NOOPEN', 'LongInt'( 5);
6360: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6);
6361: ASSOCSTR_DDECOMMAND', 'LongInt'( 7);
6362: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8);
6363: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9);
6364: ASSOCSTR_DDETOPIC', 'LongInt'( 10);
6365: ASSOCSTR_INFOTIP', 'LongInt'( 11);
6366: ASSOCSTR_MAX', 'LongInt'( 12);
6367: ASSOCSTR', 'DWORD
6368: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1);
6369: ASSOCKEY_APP', 'LongInt'( 2);
6370: ASSOCKEY_CLASS', 'LongInt'( 3);
6371: ASSOCKEY_BASECLASS', 'LongInt'( 4);
6372: ASSOCKEY_MAX', 'LongInt'( 5);
6373: ASSOCKEY', 'DWORD
6374: ASSOCDATA_MSIDEScriptor', 'LongInt'( 1);
6375: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2);
6376: ASSOCDATA_QUERYCLASSTOOL', 'LongInt'( 3);
6377: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4);
6378: ASSOCDATA_MAX', 'LongInt'( 5);
6379: ASSOCDATA', 'DWORD
6380: ASSOCENUM_NONE', 'LongInt'( 0);
6381: ASSOCENUM', 'DWORD
6382: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6383: SHACF_DEFAULT $00000000;
6384: SHACF_FILESYSTEM', 'LongWord( $00000001);
6385: SHACF_URLHISTORY', 'LongWord( $00000002);
6386: SHACF_URLMRU', 'LongWord( $00000004);
6387: SHACF_USETAB', 'LongWord( $00000008);
6388: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6389: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6390: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6391: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6392: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD( $80000000 ) );
6393: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6394: Procedure SHSetThreadRef( punk : IUnknown )
6395: Procedure SHGetThreadRef( out ppunk : IUnknown )
6396: CTF_INSIST', 'LongWord( $00000001);
6397: CTF_THREAD_REF', 'LongWord( $00000002);
6398: CTF_PROCESS_REF', 'LongWord( $00000004);
6399: CTF_COINIT', 'LongWord( $00000008);
6400: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6401: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6402: Function ColorHLSToRGB( wHue, wLuminance, wSaturation : WORD ) : TColorRef
6403: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6404: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6405: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6406: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6407: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6408: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6409: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6410: Function SetRectEmpty( var lprc : TRect ) : BOOL
6411: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6412: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6413: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6414: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6415:
6416: Function InitializeFlatSB( hWnd : HWND ) : Bool
6417: Procedure UninitializeFlatSB( hWnd : HWND )
6418: Function FlatSB_GetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6419: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6420: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6421: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6422: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer
6423: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word

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6424: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6425:
6426:
6427: // **** 204 unit uPSI_ShellAPI;
6428: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6429: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6430: Procedure DragFinish( Drop : HDROP )
6431: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6432: Function ShellExecute(hWnd:HWND;Operation,FileName,Parameters,Directory:PChar,ShowCmd:Integer):HINST
6433: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6434: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6435: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6436: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6437: Function ExtractIcon( hInst : HINST; lpszExefileName : PChar; nIconIndex : UINT ) : HICON
6438: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6439: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6440: Function ExtractIconEx(lpszFile:PChar;nIconIndex:Int;var phiconLarge,phiconSmall:HICON;nIcons:UINT):UINT;
6441: Procedure SHFreeNameMappings( hNameMappings : THandle )
6442:
6443: DLLVER_PLATFORM_WINDOWS', 'LongWord( $00000001 );
6444: DLLVER_PLATFORM_NT', 'LongWord( $00000002 );
6445: DLLVER_MAJOR_MASK', 'LongWord( Int64 ( $FFFF000000000000 ) );
6446: DLLVER_MINOR_MASK', 'LongWord( Int64 ( $0000FFFF00000000 ) );
6447: DLLVER_BUILD_MASK', 'LongWord( Int64 ( $00000000FFFF0000 ) );
6448: DLLVER_QFE_MASK', 'LongWord( Int64 ( $000000000000FFFF ) );
6449: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6450: Function SimpleXMLEncode( const S : string ) : string
6451: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean )
6452: Function XMLEncode( const S : string ) : string
6453: Function XMLDecode( const S : string ) : string
6454: Function EntityEncode( const S : string ) : string
6455: Function EntityDecode( const S : string ) : string
6456:
6457: procedure RIRegister_CPort_Routines(S: TPSEexec);
6458: Procedure EnumComPorts( Ports : TStrings )
6459: Procedure ListComPorts( Ports : TStrings )
6460: Procedure ComPorts( Ports : TStrings ) //Alias to Arduino
6461: Function GetComPorts: TStringlist;
6462: Function StrToBaudRate( Str : string ) : TBaudRate
6463: Function StrToStopBits( Str : string ) : TStopBits
6464: Function StrToDataBits( Str : string ) : TDataBits
6465: Function StrToParity( Str : string ) : TParityBits
6466: Function StrToFlowControl( Str : string ) : TFlowControl
6467: Function BaudRateToStr( BaudRate : TBaudRate ) : string
6468: Function StopBitsToStr( StopBits : TStopBits ) : string
6469: Function DataBitsToStr( DataBits : TDataBits ) : string
6470: Function ParityToStr( Parity : TParityBits ) : string
6471: Function FlowControlToStr( FlowControl : TFlowControl ) : string
6472: Function ComErrorsToStr( Errors : TComErrors ) : String
6473:
6474: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
6475: Function DispatchMessage( const lpMsg : TMsg ) : Longint
6476: Function TranslateMessage( const lpMsg : TMsg ) : BOOL
6477: Function SetMessageQueue( cMessagesMax : Integer ) : BOOL
6478: Function PeekMessage(var lpMsg:TMsg; hWnd:HWND;wMsgFilterMin,wMsgFilterMax,wRemoveMsg:UINT):BOOL
6479: Function GetMessagePos : DWORD
6480: Function GetMessageTime : Longint
6481: Function GetMessageExtraInfo : Longint
6482: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean ) : string
6483: Procedure JAddToRecentDocs( const filename : string )
6484: Procedure ClearRecentDocs
6485: Function ExtractIconFromFile( FileName : string; Index : Integer ) : HICON
6486: Function CreateShellLink( const AppName, Desc : string; Dest : string ) : string
6487: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo )
6488: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo )
6489: Function RecycleFile( FileToRecycle : string ) : Boolean
6490: Function JCopyFile( FromFile, ToDir : string ) : Boolean
6491: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType ) : UINT
6492: Function ShellObjectTypeConstToEnum( ShellObjectType : UINT ) : TShellObjectType
6493: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6494: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6495: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6496: Function EnumServicesStatusExA(hSCManager: SC_HANDLE; InfoLevel: SC_ENUM_TYPE; dwServiceType: DWORD; dwServiceState: DWORD; lpServices:LPBYTE;cbBufSize:DWORD;var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD;pszGroupName: LP
6497: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices:LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6498: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD;lpServices : LPBYTE;cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6499: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR ) : BOOL
6500:
6501: ***** unit uPSI_JclPeImage;
6502:
6503: Function IsValidPeFile( const FileName : TFileName ) : Boolean

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6504: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders ) : Boolean
6505: Function PeCreateNameHintTable( const FileName : TFileName ) : Boolean
6506: Function PeRebaseImage( const ImageName: TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD ) : TJclRebaseImageInfo
6507: Function PeVerifyChecksum( const FileName : TFileName ) : Boolean
6508: Function PeClearCheckSum( const FileName : TFileName ) : Boolean
6509: Function PeUpdateCheckSum( const FileName : TFileName ) : Boolean
6510: Function PeDoesExportFunction( const FileName:TFileName;const FuncName:string;Options:TJclSmartCompOptions):Bool;
6511: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions ) : Boolean
6512: Function PeIsExportFunctionForwarded( const FileName:TFileName;const FunctionName:string;Options:TJclSmartCompOptions):Bool
6513: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions ) : Boolean
6514: Function PeDoesImportLibrary( const FileName:TFileName;const LibraryName:string;Recursive:Boolean):Boolean;
6515: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean ) : Boolean
6516: Function PeImportedFunctions( const FileName:TFileName;const FunctionsList:TStrings;const LibraryName:string; IncludeLibNames : Boolean )
6517: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6518: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6519: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6520: Function PeResourceKindNames(const FileN:TFileName;ResourceType:TJclPeResourceKind;const NamesList:TStrings):Bool
6521: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings ) : Boolean
6522: Function PeBorDependedPackages( const FileName:TFileName;PackagesList:TStrings;FullPathName, Descript:Bool):Bool;
6523: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6524: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6525: Function PeCreateRequiredImportList( const FileName : TFileName; RequiredImportsList: TStrings): Boolean;
6526: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6527: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6528: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6529: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) : PImageSectionHeader
6530: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6531: //Function PeMapImgResolvePackageThunk( Address : Pointer ) : Pointer
6532: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):Pointer;
6533: SIRegister_TJclPeSectionStream(CL);
6534: SIRegister_TJclPeMapImgHookItem(CL);
6535: SIRegister_TJclPeMapImgHooks(CL);
6536: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer,var NtHeaders:TImageNtHeaders):Boolean
6537: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6538: Type TJclBorUmSymbolKind,'(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6539: TJclBorUmSymbolModifier','( smQualified, smLinkProc )
6540: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6541: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6542: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6543: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6544: Function PeBorUnmangleName( const Name : string; var Unmangled : string; var Description : TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6545: Function PeBorUnmangleName1(const Name:string;var Unmangled:string;var Descript:TJclBorUmDescription):TJclBorUmResult;
6546: Function PeBorUnmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6547: Function PeBorUnmangleName3( const Name : string ) : string;
6548: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult
6549: Function PeUnmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult
6550:
6551:
6552: //***** SysTools uPSI_StSystem; *****
6553: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal
6554: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString
6555: Function DeleteVolumeLabel( Drive : Char ) : Cardinal
6556: //Procedure EnumerateDirectories(const StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6557: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
6558: IncludeItem:TIncludeItemFunc);
6559: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal
6560: Function FileMatchesMask( const FileName, FileMask : AnsiString ) : Boolean
6561: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec
6562: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer
6563: Function FlushOsBuffers( Handle : Integer ) : Boolean
6564: Function GetCurrentUser : AnsiString
6565: Function GetDiskClass( Drive : Char ) : DiskClass
6566: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector, SectorsPerCluster:Cardinal):Bool;
6567: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var DiskSize:Double):Bool;
6568: Function GetDiskSpace2(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var DiskSize:Double):Bool;
6569: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6570: Function getFileCreateDate( const FileName : AnsiString ) : TDateTime
6571: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime
6572: Function GetFileLastModify( const FileName : AnsiString ) : TDateTime

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6573: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString
6574: Function GetLongPath( const APath : AnsiString ) : AnsiString
6575: Function GetMachineName : AnsiString
6576: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6577: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean ) : AnsiString
6578: Function GetShortPath( const APath : AnsiString ) : AnsiString
6579: Function GetSystemFolder( aForceSlash : Boolean ) : AnsiString
6580: Function GetTempFolder( aForceSlash : boolean ) : AnsiString
6581: Function StGetWindowsFolder( aForceSlash : boolean ) : AnsiString
6582: Function GetWorkingFolder( aForceSlash : boolean ) : AnsiString
6583: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6584: Function StIsDirectory( const DirName : AnsiString ) : Boolean
6585: Function IsDirectoryEmpty( const S : AnsiString ) : Integer
6586: Function IsDriveReady( Drive : Char ) : Boolean
6587: Function IsFile( const FileName : AnsiString ) : Boolean
6588: Function IsFileArchive( const S : AnsiString ) : Integer
6589: Function IsFileHidden( const S : AnsiString ) : Integer
6590: Function IsFileReadOnly( const S : AnsiString ) : Integer
6591: Function IsFileSystem( const S : AnsiString ) : Integer
6592: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6593: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char ) : Cardinal
6594: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer ) : Boolean
6595: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6596: Procedure SplitPath( const APath : AnsiString; Parts : TStrings )
6597: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt
6598: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec ) : Longint
6599: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec
6600: Function ValidDrive( Drive : Char ) : Boolean
6601: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal
6602:
6603: //*****unit uPSI_JclLANMan;*****
6604: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6605: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean )
6606: Function DeleteAccount( const Servername, Username : string ) : Boolean
6607: Function DeleteLocalAccount( Username : string ) : Boolean
6608: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6609: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6610: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6611: Function GetLocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6612: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6613: Function LocalGroupExists( const Group : string ) : Boolean
6614: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6615: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6616: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6617: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6618: Function IsLocalAccount( const AccountName : string ) : Boolean
6619: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6620: Function GetRandomString( NumChar : cardinal ) : string
6621:
6622: //*****unit uPSI_cUtils;*****
6623: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )')
6624: Function cIsWinNT : boolean
6625: Procedure cFilesFromWildcard(Directory,Mask: string;var Files:TStringList;Subdirs,ShowDirs,
  Multitasking:Boolean;
6626: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6627: Function cRunAndGetOutput(Cmd,WorkDir:string; ErrFunc:TErrFunc; LineOutputFunc:TLineOutputFunc;
  CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean) : string
6628: Function cGetShortName( FileName : string ) : string
6629: Procedure cShowError( Msg : String )
6630: Function cCommaStrToStr(s : string; formatstr : string) : string
6631: Function cIncludeQuoteIfSpaces( s : string ) : string
6632: Function cIncludeQuoteIfNeeded( s : string ) : string
6633: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6634: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6635: Function cBuildFilter( var value : string; const FLTStyle : TFILTERSET ) : boolean;
6636: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6637: Function cCodeInstoStr( s : string ) : string
6638: Function cStrtoCodeIns( s : string ) : string
6639: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6640: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6641: Procedure cStrtoPoint( var pt : TPoint; value : string )
6642: Function cPointtoStr( const pt : TPoint ) : string
6643: Function cListtoStr( const List : TStrings ) : string
6644: Function ListtoStr( const List : TStrings ) : string
6645: Procedure StrtoList( s : string; const List : TStrings; const delimiter : char )
6646: Procedure cStrtoList( s : string; const List : TStrings; const delimiter : char )
6647: Function cGetFileType( const FileName : string ) : TUnitType
6648: Function cGetExTyp( const FileName : string ) : TExUnitType
6649: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6650: Function cExpandFileto( const FileName : string; const basePath : string ) : string
6651: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6652: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6653: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6654: Function cGenMakePath( FileName : String ) : String;
6655: Function cGenMakePath2( FileName : String ) : String
6656: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean ) : String;
6657: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String

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6658: Function cCalcMod( Count : Integer ) : Integer
6659: Function cGetVersionString( FileName : string ) : string
6660: Function cCheckChangeDir( var Dir : string ) : boolean
6661: Function cGetAssociatedProgram(const Extension:string; var Filename,Description: string):boolean
6662: Function cIsNumeric( s : string ) : boolean
6663: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6664: Function AttrToStr( const Attr : TSynHighlighterAttributes ) : string
6665: Function GetFileType( const FileName : string ) : TUnitType
6666: Function Atoi(const aStr: string): integer
6667: Function Itoa(const aint: integer): string
6668:
6669:
6670: procedure SIRegister_cHTTPUtils(CL: TPSPascalCompiler);
6671: begin
6672:   FindClass('TOBJECT'), 'EHTTP
6673:   FindClass('TOBJECT'), 'EHTTPParser
6674:   //AnsiCharSet', 'set of AnsiChar
6675:   AnsiStringArray', 'array of AnsiString
6676:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6677:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6678:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH'
6679:     +'TPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6680:     +'CustomMinVersion : Integer; end
6681:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6682:     +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6683:     +'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6684:     +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6685:     +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6686:     +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticat, hntLastModi'
6687:     +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6688:     +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSinc'
6689:     +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6690:     +'nection, hntOrigin, hntKeepAlive )
6691:   THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6692:   THTTPCustomHeader', 'record FieldName : AnsiString;FieldValue :'
6693:     +' AnsiString; end
6694:   //PHTTPCustomHeader', '^THTTPCustomHeader // will not work
6695:   THTTPContentLengthEnum', '( hcLNone, hcLByteCount )
6696:   THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount:Int64; end
6697:   //PHTTPCContentLength', '^THTTPCContentLength // will not work
6698:   THTTPContent-TypeMajor', '( hctmCustom, hctmText, hctmImage )
6699:   THTTPContent-TypeEnum', '( hctNone, hctCustomParts, hctCustomStri'
6700:     +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6701:     +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6702:     +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScipt, hctAplic'
6703:     +'ationCustom, hctAudioCustom, hctVideoCustom )
6704:   THTTPContent-Type', 'record Value : THTTPContent-TypeEnum; CustomM'
6705:     +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray; '
6706:     +' CustomStr : AnsiString; end
6707:   THTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )'
6708:   THTTPDateField', 'record Value : THTTPDateFieldEnum; DayOfWeek :'
6709:     +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6710:     +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6711:     +'String; DateTime : TDateTime; Custom : AnsiString; end
6712:   THTTPTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )'
6713:   THTTPTransferEncoding', 'record Value : THTTPTransferEncodingEnum'
6714:     +'m; Custom : AnsiString; end
6715:   THTTPConnectionFieldEnum', '( hcfNone, hcfCustom, hcfClose, hcfKeepAlive )'
6716:   THTTPConnectionField', 'record Value : THTTPConnectionFieldEnum; '
6717:     +' Custom : AnsiString; end
6718:   THTTPPageFieldEnum', '( hafNone, hafCustom, hafAge )'
6719:   THTTPPageField', 'record Value : THTTPPageFieldEnum; Age : Int64;Custom:AnsiString; end
6720:   THTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )'
6721:   THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6722:     +', hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )'
6723:   THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6724:     +', hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6725:     +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )'
6726:   THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end
6727:   THTTPContent-EncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6728:     +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )'
6729:   THTTPContent-Encoding', 'record Value:THTTPContent-EncodingEnum;Custom:AnsiString; end;
6730:   THTTPContent-EncodingFieldEnum', '( hcefNone, hcefList )'
6731:   THTTPContent-EncodingField', 'record Value : THTTPContent-Encoding'
6732:     +'FieldEnum; List : array of THTTPContent-Encoding; end
6733:   THTTPRetryAfterFieldEnum', '( hrafNone, hrafCustom, harfDate, harfSeconds )'
6734:   THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum; '
6735:     +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6736:   THTTPContent-RangeFieldEnum', '( horfNone, hrfCustom, hcrfByteRange )'
6737:   THTTPContent-RangeField', 'record Value : THTTPContent-RangeFieldE'
6738:     +'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6739:   THTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )'
6740:   THTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6741:   THTTPSetCookieCustomFieldArray', 'array of THTTPSetCookieCustomField
6742:   THTTPSetCookieField', 'record Value : THTTPSetCookiefieldEnum; D'
6743:     +'omain : AnsiString; Path : AnsiString; Expires : THTTPDateField; MaxAge : '
6744:     +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPSetCookie'
6745:     +'CustomFieldArray; Custom : AnsiString; end
6746:   //PHTTPS-SetCookieField', '^THTTPS-SetCookieField // will not work

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6747: THTTPSetCookieFieldArray', 'array of THTTPSetCookieField
6748: THTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )
6749: THTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6750: //^THTTPCookieFieldEntry', '^THTTPCookieFieldEntry // will not work
6751: THTTPCookieFieldEntryArray', 'array of THTTPCookieFieldEntry
6752: THTTPCookieField', 'record Value : THTTPCookieFieldEnum; Entries'
6753: +' : THTTPCookieFieldEntryArray; Custom : AnsiString; end
6754: THTTPCommonHeaders', 'record TransferEncoding : THTTPTransferEnc'
6755: +'oding; ContentType : THTTPContentType; ContentLength : THTTPContentLength;'
6756: +' Connection : THTTPConnectionField; ProxyConnection : THTTPConnectionField'
6757: +' Date : THTTPDateField; ContentEncoding : THTTPContentEncodingField; end
6758: THTTPCustomHeaders', 'array of THTTPCustomHeader
6759: //^THTTPFixedHeaders', 'array[THTTPHeaderName] of AnsiString
6760: THTTPFixedHeaders', 'array[0..42] of AnsiString
6761: THTTPMethodEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC'
6762: +'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )
6763: THTTPMethod', 'record Value : THTTPMethodEnum; Custom : AnsiString; end
6764: THTTPRequestStartLine', 'record Method: THTTPMethod;URI: AnsiString;Version:THTTPVersion; end
6765: THTTPRequestHeader', 'record CommonHeaders : THTTPCommonHeaders;
6766: +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Coo'
6767: +'kie : THTTPCookieField; IfModifiedSince:THTTPDateField;IfUnmodifiedSince:THTTPDateField;end
6768: //^THTTPRequestHeader', '^THTTPRequestHeader // will not work
6769: THTTPRequest', 'record StartLine : THTTPRequestStartLine; Header'
6770: +' : THTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6771: THTTPResponseStartLineMessage', '( hslmNone, hslmCustom, hslmOK)
6772: THTTPResponseStartLine', 'record Version : THTTPVersion; Code : '
6773: +'Integer; Msg : THTTPResponseStartLineMessage; CustomMsg : AnsiString; end
6774: THTTPResponseHeader', 'record CommonHeaders : THTTPCommonHeaders'
6775: +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co'
6776: +'okies : THTTPSetCookieFieldArray; Expires : THTTPDateField; LastModified :'
6777: +' THTTPDateField; Age : THTTPAgeField; end
6778: //^THTTPResponseHeader', '^THTTPResponseHeader // will not work
6779: THTTPResponse', 'record StartLine : THTTPResponseStartLine; Head'
6780: +'er : THTTPResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6781: Function HTTPMessageHasContent( const H : THTTPCommonHeaders ) : Boolean
6782: Procedure InitHTTPRequest( var A : THTTPRequest )
6783: Procedure InitHTTPResponse( var A : THTTPResponse )
6784: Procedure ClearHTTPVersion( var A : THTTPVersion )
6785: Procedure ClearHTTPContentLength( var A : THTTPContentLength )
6786: Procedure ClearHTTPContentType( var A : THTTPContentType )
6787: Procedure ClearHTTPDateField( var A : THTTPDateField )
6788: Procedure ClearHTTPTransferEncoding( var A : THTTPTransferEncoding )
6789: Procedure ClearHTTPConnectionField( var A : THTTPConnectionField )
6790: Procedure ClearHTTPAgeField( var A : THTTPAgeField )
6791: Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding )
6792: Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField )
6793: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField )
6794: Procedure ClearHTTPSetCookieField( var A : THTTPSetCookieField )
6795: Procedure ClearHTTPCommonHeaders( var A : THTTPCommonHeaders )
6796: //Procedure ClearHTTPFixedHeaders( var A : THTTPFixedHeaders )
6797: Procedure ClearHTTPCustomHeaders( var A : THTTPCustomHeaders )
6798: Procedure ClearHTTPCookieField( var A : THTTPCookieField )
6799: Procedure ClearHTTPMethod( var A : THTTPMethod )
6800: Procedure ClearHTTPRequestStartLine( var A : THTTPRequestStartLine )
6801: Procedure ClearHTTPRequestHeader( var A : THTTPRequestHeader )
6802: Procedure ClearHTTPRequest( var A : THTTPRequest )
6803: Procedure ClearHTTPResponseStartLine( var A : THTTPResponseStartLine )
6804: Procedure ClearHTTPResponseHeader( var A : THTTPResponseHeader )
6805: Procedure ClearHTTPResponse( var A : THTTPResponse )
6806: THTTPStringOption', '( hsoNone )
6807: THTTPStringOptions', 'set of THTTPStringOption
6808: FindClass( 'TOBJECT' ), 'TansiStringBuilder
6809:
6810: Procedure BuildStrHTTPVersion( const A:THTTPVersion;const B:TansiStringBuilder; P:THTTPStringOptions;
6811: Procedure BuildStrHTTPContentLengthValue( const
6812: A:THTTPContentLength;B:TansiStringBuilder;P:THTTPStringOptions )
6813: Procedure BuildStrHTTPContentLength( const A : THTTPContentLength;
6814: B:TansiStringBuilder;P:THTTPStringOptions )
6815: Procedure BuildStrHTTPContentTypeValue( const A : THTTPContentType;B:TansiStringBuilder;const
6816: P:THTTPStringOptions )
6817: Procedure BuildStrHTTPContentType( const A:THTTPContType;const B:TansiStringBuilder; const
6818: P:THTTPStringOptions )
6819: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
6820: B : TansiStringBuilder; const P : THTTPStringOptions )
6821: Procedure BuildStrHTTPDateFieldValue( const A : THTTPDateField; const B : TansiStringBuilder; const P :
6822: THTTPStringOptions )
6823: Procedure BuildStrHTTPDateField( const A:THTTPDateField;const B:TansiStringBuilder;const
6824: P:THTTPStringOptions );
6825: Procedure BuildStrHTTPTransferEncodingValue( const A : THTTPTransferEncoding; const B :
6826: TansiStringBuilder; const P : THTTPStringOptions )
6827: Procedure BuildStrHTTPTransferEncoding( const A : THTTPTransferEncoding; const B : TansiStringBuilder;
6828: const P : THTTPStringOptions )
6829: Procedure BuildStrHTTPContentRangeField( const A : THTTPContentRangeField; const B : TansiStringBuilder;
6830: const P : THTTPStringOptions )
6831: Procedure BuildStrHTTPConnectionFieldValue( const A : THTTPConnectionField; const B : TansiStringBuilder;
6832: const P : THTTPStringOptions )
6833: Procedure BuildStrHTTPConnectionField( const A : THTTPConnectionField; const B : TansiStringBuilder;
6834: const P : THTTPStringOptions )
6835: Procedure BuildStrHTTPAgeField( const A:THTTPAgeField;const B:TansiStringBuilder;const
6836: P:THTTPStringOptions );

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6824: Procedure BuildStrHTTPContentEncoding( const A : TTHTTPContentEncoding; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6825: Procedure BuildStrHTTPContentEncodingField(const A:TTHTTPContentEncodingField;const
B:TAnsiStringBuilder;const P:THTTPStringOptions)
6826: Procedure BuildStrHTTPProxyConnectionField(const A : TTHTTPConnectionField; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6827: Procedure BuildStrHTTPCommonHeaders( const A : TTHTTPCommonHeaders; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6828: Procedure BuildStrHTTPFixedHeaders(const A:TTHTTPFixedHeaders;const B:TAnsiStringBuilder;const
P:THTTPStringOptions)
6829: Procedure BuildStrHTTPCustomHeaders( const A : TTHTTPCustomHeaders; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6830: Procedure BuildStrHTTPSetCookieFieldValue( const A : TTHTTPSetCookieField; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6831: Procedure BuildStrHTTPCookieFieldValue( const A : TTHTTPCookieField; const B : TAnsiStringBuilder; const P
: THTTPStringOptions)
6832: Procedure BuildStrHTTPCookieField(const A:TTHTTPCookieField;const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6833: Procedure BuildStrHTTPMethod( const A : TTHTTPMethod; const B : TAnsiStringBuilder; const P :
THTTPStringOptions)
6834: Procedure BuildStrHTTPRequestStartLine( const A : TTHTTPRequestStartLine; const B : TAnsiStringBuilder;
const P : THTTPStringOptions)
6835: Procedure BuildStrHTTPRequestHeader(const A:TTHTTPRequestHeader;const B:TAnsiStringBuilder;const
P:THTTPStringOptions);
6836: Procedure BuildStrHTTPRequest(const A : TTHTTPRequest; const B : TAnsiStringBuilder; const P :
THTTPStringOptions)
6837: Procedure BuildStrHTTPResponseCookieFieldArray( const A : TTHTTPSetCookieFieldArray; const B :
TAnsiStringBuilder; const P : THTTPStringOptions)
6838: Procedure BuildStrHTTPResponseStartLine(const A:TTHTTPResponseStartLine;const B:TAnsiStrBldr;const P
THTTPStrOptions);
6839: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const
P:THTTPStringOptions);
6840: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const
P:THTTPStringOptions);
6841: Function HTTPContentTypeValueToStr( const A : TTHTTPContentType ) : AnsiString
6842: Function HTTPSetCookieFieldValueToStr( const A : TTHTTPSetCookieField ) : AnsiString
6843: Function HTTPCookieFieldValueToStr( const A : TTHTTPCookieField ) : AnsiString
6844: Function HTTPMethodToStr( const A : TTHTTPMethod ) : AnsiString
6845: Function HTTPRequestToStr( const A : TTHTTPRequest ) : AnsiString
6846: Function HTTPResponseToStr( const A : TTHTTPResponse ) : AnsiString
6847: Procedure PrepareCookie(var A:TTHTTPCookieField;const B:TTHTTPSetCookieFieldArray;const
Domain:AnsiString;const Secure:Boolean;TTHTTPParserHeaderParseFunc', 'Function ( const HeaderName : THTT'
6848: +PHeaderNameEnum; const HeaderPtr : __Pointer ) : Boolean
6849: SIRegister_THTTPParser(CL);
6850: FindClass('TOBJECT','THTTPContentDecoder
6851: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder )
6852: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6853: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6854: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6855: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String )
6856: SIRegister_THTTPContentDecoder(CL);
6857: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6858: FindClass('TOBJECT','THTTPContentReader
6859: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader )
6860: THTTPContentReaderLogEvent', 'Procedure(const Sender:THTTPContentReader;const LogMsg:String;const
LogLevel:Int;
6861: SIRegister_THTTPContentReader(CL);
6862: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6863: FindClass('TOBJECT','THTTPContentWriter
6864: THTTPContentWriterLogEvent', 'Procedure ( const Sender : THTTPContentWriter;const LogMsg:AnsiString );
6865: SIRegister_THTTPContentWriter(CL);
6866: Procedure SelfTestcHTTPUtils
6867: end;
6868:
6869: (*-----*)
6870: procedure SIRegister_cTLSUtils(CL: TPPascalCompiler);
6871: begin
6872: 'TLSlibraryVersion', 'String '1.00
6873: 'TLSerror_None', 'LongInt'( 0 );
6874: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6875: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6876: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6877: 'TLSerror_InvalidState', 'LongInt'( 4 );
6878: 'TLSerror_DecodeError', 'LongInt'( 5 );
6879: 'TLSerror_BadProtocol', 'LongInt'( 6 );
6880: Function TLSErrorMessage( const TLSerror : Integer ) : String
6881: SIRegister_ETLSError(CL);
6882: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6883: PTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6884: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion )
6885: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion )
6886: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion )
6887: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion )
6888: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6889: Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6890: Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6891: Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean
6892: Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6893: Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean

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6894: Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6895: Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6896: Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6897: Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6898: Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6899: Function TLSSessionIDToStr( const A : TTLSProtocolVersion ) : String
6900: Function TLSSessionIDName( const A : TTLSProtocolVersion ) : String
6901: PTLSRandom', '^PTLSRandom // will not work
6902: Procedure InitTLSSessionID( var Random : PTLSRandom )
6903: Function TLSSessionIDToStr( const Random : PTLSRandom ) : AnsiString
6904: 'TLSSessionIDMaxLen', 'LongInt'( 32 );
6905: Procedure InitTLSSessionID( var SessionID : TTLSSessionID; const A : AnsiString )
6906: Function EncodETLSSessionID(var Buffer:string;const Size:Int;const SessionID:TTLSSessionID):Int;
6907: Function DecodETLSSessionID(const Buffer:string;const Size:Int;var SessionID:TTLSSessionID):Int;
6908: TTLSignatureAndHashAlgorithm', 'record Hash : TTLSSignatureAlgorithm'
6909: +' ; Signature : TTLSignatureAlgorithm; end
6910: // TTLSignatureAndHashAlgorithm', '^TTLSignatureAndHashAlgorithm +'// will not work
6911: TTLSignatureAndHashAlgorithmArray', 'array of TTLSignatureAndHashAlgorithm
6912: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_'
6913: +'DSS, tlskeaDHE_RSA, tlskeaDH_Anon, tlskeRSA, tlskeaDH_DSS, tlskeaDH_RSA ) '
6914: TTLSMACAlgorithm', '( tlsmNone, tlsmNULL, tlsm HMAC_MD5, tlsm'
6915: +'HMAC_SHA1, tlsm HMAC_SHA256, tlsm HMAC_SHA384, tlsm HMAC_SHA512 ) '
6916: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6917: +'nteger; Supported : Boolean; end
6918: PTLSMacAlgorithmInfo', '^TTLSSMacAlgorithmInfo // will not work
6919: 'TLS_MAC_MAXDIGESTSIZE', 'LongInt'( 64 );
6920: TTLSPRFAlgorithm', '( tlspaSHA256 )
6921: Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6922: Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6923: Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6924: Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6925: Function tlsp10PRF( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6926: Function tlsp12PRF_SHA256( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6927: Function tlsp12PRF_SHA512( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6928: Function TLSPRF( const ProtoVersion:TTLSProtocolVersion;const Secret,ALLabel,Seed:AString;const
Size:Int):AString;
6929: Function tlsp10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
Size:Integer):AnsiString
6930: Function tlsp12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6931: Function tlsp12SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6932: Function TLSKeyBlock(const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer ) : AnsiString
6933: Function tlsp10MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6934: Function tlsp12SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6935: Function tlsp12SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
6936: Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
ServerRandom:AnsiString ) : AnsiString
6937: 'TLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6938: +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6939: +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
6940: Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TLSKeys )
6941: Procedure GenerateFinalTLSKeys(const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TLSKeys)
6942: 'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'( 16384 - 1 );
6943: 'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'( 16384 + 1024 );
6944: Procedure SelfTestcTLSUtils
6945: end;
6946:
6947: (*-----*)
6948: procedure SIRegister_Reversi(CL: TPSPascalCompiler);
6949: begin
6950:   sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
integer; disks : integer; mx : integer; my : integer; end
6951: // pBoard', '^tBoard // will not work
6952: Function rCalculateData( cc : byte; cx, cy : integer) : sPosData
6953: Function rCheckMove( color : byte; cx, cy : integer) : integer
6954: //Function rDoStep( data : pBoard ) : word
6955: Function winExecAndWait( const sAppPath : string; wVisible : word ) : boolean
6956: end;
6957:
6958: procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
6959: begin
6960: Function InEditMode( ADataSet : TDataSet ) : Boolean
6961: Function CheckDataSource( ADataSource : TDataSource ) : Boolean;
6962: Function CheckDataSource( ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
6963: Function GetFieldText( AField : TField ) : String
6964: end;
6965:
6966: procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
6967: begin
6968:   TPrintMode', '( pmPrint, pmPreview, pmPageCount )
6969:   TMyPrintRange', '( prAll, prSelected )
6970:   TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
6971:   +'ded, ssDateTime, ssTime, ssCustom )
6972:   TSortDirection', '( sdAscending, sdDescending )
6973:   TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)

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6974: TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer'
6975:   +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
6976: TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
6977: TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
6978: SIRegister_TSortOptions(CL);
6979: SIRegister_TPrintOptions(CL);
6980: TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
6981: SIRegister_TSortedList(CL);
6982: TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
6983: TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
6984: TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
6985: TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
6986:   +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
6987: SIRegister_TFontSetting(CL);
6988: SIRegister_TFontList(CL);
6989: AddTypes(TFormatDrawCellEvent', 'Procedure ( Sender : TObject; Col, Row :'
6990:   + integer; State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool );
6991: TSetFilterEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
6992: TSearchEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
6993: TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
6994: TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
6995: TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
6996: TEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
6997: TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer'
6998:   +'r; var SortStyle : TSortStyle)
6999: TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow :'
7000:   +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
7001: SIRegister_TSortGrid(CL);
7002: Function ExtendedCompare( const Str1, Str2 : String ) : Integer
7003: Function NormalCompare( const Str1, Str2 : String ) : Integer
7004: Function DateTimeCompare( const Str1, Str2 : String ) : Integer
7005: Function NumericCompare( const Str1, Str2 : String ) : Integer
7006: Function TimeCompare( const Str1, Str2 : String ) : Integer
7007: //Function Compare( Item1, Item2 : Pointer ) : Integer
7008: end;
7009:
7010: ***** procedure Register_IB(CL: TPPascalCompiler);
7011: Procedure IBAalloc( var P, OldSize, NewSize : Integer)
7012: Procedure IBEerror( ErrMess : TIBClientError; const Args : array of const )
7013: Procedure IB DataBaseError
7014: Function StatusVector : PISC_STATUS
7015: Function StatusVectorArray : PStatusVector
7016: Function CheckStatusVector( ErrorCode : array of ISC_STATUS ) : Boolean
7017: Function StatusVectorAsText : string
7018: Procedure SetIB DataBaseErrorMessages( Value : TIB DataBaseErrorMessages )
7019: Function GetIB DataBaseErrorMessages : TIB DataBaseErrorMessages
7020:
7021:
7022: //*****unit uPSI_BoldUtils;*****
7023: Function CharCount( c : char; const s : string ) : integer
7024: Function BoldNamesEqual( const name1, name2 : string ) : Boolean
7025: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
7026: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
7027: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string ) : string
7028: Function BoldTrim( const S : string ) : string
7029: Function BoldIsPrefix( const S, Prefix : string ) : Boolean
7030: Function BoldStrEqual( P1, P2 : PChar; Len : integer ) : Boolean
7031: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer ) : Boolean
7032: Function BoldAnsiEqual( const S1, S2 : string ) : Boolean
7033: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer ) : Boolean
7034: Function BoldCaseIndependentPos( const Substr, S : string ) : Integer
7035: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings )
7036: Function CapitalisedToSpaced( Capitalised : String ) : String
7037: Function SpacedToCapitalised( Spaced : String ) : String
7038: Function BooleanToString( BoolValue : Boolean ) : String
7039: Function StringToBoolean( StrValue : String ) : Boolean
7040: Function GetUpperLimitForMultiplicity( const Multiplicity : String ) : Integer
7041: Function GetLowerLimitForMultiplicity( const Multiplicity : String ) : Integer
7042: Function StringListToVarArray( List : TStringList ) : variant
7043: Function IsLocalMachine( const Machinename : WideString ) : Boolean
7044: Function GetComputerNameStr : string
7045: Function TimestampComp( const Time1, Time2 : TTimeStamp ) : Integer
7046: Function BoldStrToDateFmt(const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7047: Function BoldDateToStrFmt(const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7048: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7049: Function BoldParseFormattedDate(const value:String;const formats:array of string; var Date:TDateTime):Boolean;
7050: Procedure EnsureTrailing( var Str : String; ch : char )
7051: Function BoldDirectoryExists( const Name : string ) : Boolean
7052: Function BoldForceDirectories( Dir : string ) : Boolean
7053: Function BoldRootRegistryKey : string
7054: Function GetModuleFileNameAsString( IncludePath : Boolean ) : string
7055: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings ) : Integer
7056: Function LogicalAnd( A, B : Integer ) : Boolean
7057: record TByHandleFileInformation dwFileAttributes : DWORD;
7058:   +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7059:   +' : TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFilesize'
7060:   +'eLow : DWORD; nNumberOfLinks : DWORD; nFileIndexHigh : DWORD; nFileIndexLow : DWORD; end
7061: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;

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7062: Function IsFirstInstance : Boolean
7063: Procedure ActivateFirst( AString : PChar)
7064: Procedure ActivateFirstCommandLine
7065: function MakeAckPkt(const BlockNumber: Word): string;
7066: procedure SendError(UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string;
7067: procedure SendError(UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7068: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7069: procedure SendError(UDPClient: TIdUDPClient; E: Exception); overload;
7070: function IdStrToWord(const Value: String): Word;
7071: function IdWordToStr(const Value: Word): WideString;
7072: Function HasInstructionSet( const InstructionSet : TCPUIInstructionSet ) : Boolean
7073: Function CPUFeatures : TCPUFeatures
7074:
7075: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPPascalCompiler);
7076: begin
7077:   AddTypeS('TXRTLBIndex', 'Integer'
7078:   Function XRTLswapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBIndex ) : Cardinal
7079:   Function XRTLBTest( Data : Cardinal; BitIndex : TXRTLBIndex ) : Boolean
7080:   Function XRTLBSet( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal
7081:   Function XRTLBReset( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal
7082:   Function XRTLBComplement( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal
7083:   Function XRTLSwapHiLo16( X : Word ) : Word
7084:   Function XRTLSwapHiLo32( X : Cardinal ) : Cardinal
7085:   Function XRTLSwapHiLo64( X : Int64 ) : Int64
7086:   Function XRTLROL32( A, S : Cardinal ) : Cardinal
7087:   Function XRTLROLR32( A, S : Cardinal ) : Cardinal
7088:   Function XRTLROL16( A : Word; S : Cardinal ) : Word
7089:   Function XRTLROL16( A : Word; S : Cardinal ) : Word
7090:   Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7091:   Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7092: //Procedure XRTLxorBlock( I1, I2, O1 : PByteArray; Len : integer)
7093: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7094: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer )
7095: Function XRTLPopulation( A : Cardinal ) : Cardinal
7096: end;
7097:
7098: Function XRTLURLDecode( const ASrc : WideString ) : WideString
7099: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7100: Function XRTLURINormalize( const AURI : WideString ) : WideString
7101: Procedure XRTLIURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
    VPassword : WideString)
7102: Function XRTLExtractLongPathName(APath: string): string;
7103:
7104: procedure SIRegister_cFundamentUtils(CL: TPSPPascalCompiler);
7105: begin
7106:   AddTypeS('Int8', 'ShortInt
7107:   AddTypeS('Int16', 'SmallInt
7108:   AddTypeS('Int32', 'LongInt
7109:   AddTypeS('UInt8', 'Byte
7110:   AddTypeS('UInt16', 'Word
7111:   AddTypeS('UInt32', 'LongWord
7112:   AddTypeS('UInt64', 'Int64
7113:   AddTypeS('Word8', 'UInt8
7114:   AddTypeS('Word16', 'UInt16
7115:   AddTypeS('Word32', 'UInt32
7116:   AddTypeS('Word64', 'UInt64
7117:   AddTypeS('LargeInt', 'Int64
7118:   AddTypeS('NativeInt', 'Integer
7119:   AddTypeS('NativeUInt', 'Cardinal
7120: Const('BitsPerByte','LongInt'( 8 );
7121: Const('BitsPerWord','LongInt'( 16 );
7122: Const('BitsPerLongWord','LongInt'( 32 );
7123: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7124: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7125: Function MinI( const A, B : Integer ) : Integer
7126: Function MaxI( const A, B : Integer ) : Integer
7127: Function MinC( const A, B : Cardinal ) : Cardinal
7128: Function MaxC( const A, B : Cardinal ) : Cardinal
7129: Function SumClipI( const A, I : Integer ) : Integer
7130: Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7131: Function InByteRange( const A : Int64 ) : Boolean
7132: Function InWordRange( const A : Int64 ) : Boolean
7133: Function InLongWordRange( const A : Int64 ) : Boolean
7134: Function InShortIntRange( const A : Int64 ) : Boolean
7135: Function InSmallIntRange( const A : Int64 ) : Boolean
7136: Function InLongIntRange( const A : Int64 ) : Boolean
7137: AddTypeS('Bool8', 'ByteBool
7138: AddTypeS('Bool16', 'WordBool
7139: AddTypeS('Bool32', 'LongBool
7140: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7141: AddTypeS('TCompareResultSet', 'set of TCompareResult
7142: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7143: Const('MinSingle','Single').setExtended( 1.5E-45 );
7144: Const('MaxSingle','Single').setExtended( 3.4E+38 );
7145: Const('MinDouble','Double').setExtended( 5.0E-324 );
7146: Const('MaxDouble','Double').setExtended( 1.7E+308 );
7147: Const('MinExtended','Extended').setExtended( 3.4E-4932 );
7148: Const('MaxExtended','Extended').setExtended( 1.1E+4932 );
7149: Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807 );

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7150: Const('MaxCurrency', 'Currency').SetExtended( 922337203685477.5807);
7151: Function MinF( const A, B : Float) : Float
7152: Function MaxF( const A, B : Float) : Float
7153: Function ClipF( const Value : Float; const Low, High : Float) : Float
7154: Function InSingleRange( const A : Float) : Boolean
7155: Function InDoubleRange( const A : Float) : Boolean
7156: Function InCurrencyRange( const A : Float) : Boolean;
7157: Function InCurrencyRange1( const A : Int64) : Boolean;
7158: Function FloatExponentBase2( const A : Extended; var Exponent : Integer) : Boolean
7159: Function FloatExponentBase10( const A : Extended; var Exponent : Integer) : Boolean
7160: Function FloatIsInfinity( const A : Extended) : Boolean
7161: Function FloatIsNaN( const A : Extended) : Boolean
7162: Const('SingleCompareDelta', 'Extended').setExtended( 1.0E-34);
7163: Const('DoubleCompareDelta', 'Extended').setExtended( 1.0E-280);
7164: Const('ExtendedCompareDelta', 'Extended').setExtended( 1.0E-4400);
7165: Const('DefaultCompareDelta', 'Extended').SetExtended( 1.0E-34);
7166: Function FloatZero( const A : Float; const CompareDelta : Float) : Boolean
7167: Function FloatOne( const A : Float; const CompareDelta : Float) : Boolean
7168: Function FloatsEqual( const A, B : Float; const CompareDelta : Float) : Boolean
7169: Function FloatsCompare( const A, B : Float; const CompareDelta : Float) : TCompareResult
7170: Const('SingleCompareEpsilon', 'Extended').setExtended( 1.0E-5);
7171: Const('DoubleCompareEpsilon', 'Extended').setExtended( 1.0E-13);
7172: Const('ExtendedCompareEpsilon', 'Extended').setExtended( 1.0E-17);
7173: Const('DefaultCompareEpsilon', 'Extended').setExtended( 1.0E-10);
7174: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double) : Boolean
7175: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double) : TCompareResult
7176: Function cClearBit( const Value, BitIndex : LongWord) : LongWord
7177: Function cSetBit( const Value, BitIndex : LongWord) : LongWord
7178: Function cIsBitSet( const Value, BitIndex : LongWord) : Boolean
7179: Function cToggleBit( const Value, BitIndex : LongWord) : LongWord
7180: Function cIsHighBitSet( const Value : LongWord) : Boolean
7181: Function SetBitScanForward( const Value : LongWord) : Integer;
7182: Function SetBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7183: Function SetBitScanReverse( const Value : LongWord) : Integer;
7184: Function SetBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7185: Function ClearBitScanForward( const Value : LongWord) : Integer;
7186: Function ClearBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7187: Function ClearBitScanReverse( const Value : LongWord) : Integer;
7188: Function ClearBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7189: Function cReverseBits( const Value : LongWord) : LongWord;
7190: Function cReverseBits1( const Value : LongWord; const BitCount : Integer) : LongWord;
7191: Function cSwapEndian( const Value : LongWord) : LongWord
7192: Function cTwosComplement( const Value : LongWord) : LongWord
7193: Function RotateLeftBits16( const Value : Word; const Bits : Byte) : Word
7194: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte) : LongWord
7195: Function RotateRightBits16( const Value : Word; const Bits : Byte) : Word
7196: Function RotateRightBits32( const Value : LongWord; const Bits : Byte) : LongWord
7197: Function cBitCount( const Value : LongWord) : LongWord
7198: Function cIsPowerOfTwo( const Value : LongWord) : Boolean
7199: Function LowbitMask( const HighBitIndex : LongWord) : LongWord
7200: Function HighBitMask( const LowBitIndex : LongWord) : LongWord
7201: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord) : LongWord
7202: Function SetBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7203: Function ClearBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7204: Function ToggleBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7205: Function IsBitRangeSet( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7206: Function IsBitRangeClear( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7207: // AddTypeS('CharSet', 'set of AnsiChar'
7208: AddTypeS('CharSet', 'set of Char' //!!!
7209: AddTypeS('AnsiCharSet', 'TCharSet'
7210: AddTypeS('ByteSet', 'set of Byte'
7211: AddTypeS('AnsiChar', 'Char'
7212: // Function AsCharSet( const C : array of AnsiChar) : CharSet
7213: Function AsByteSet( const C : array of Byte) : ByteSet
7214: Procedure ComplementChar( var C : CharSet; const Ch : Char)
7215: Procedure ClearCharSet( var C : CharSet)
7216: Procedure FillCharSet( var C : CharSet)
7217: Procedure ComplementCharSet( var C : CharSet)
7218: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7219: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet)
7220: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet)
7221: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet)
7222: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7223: Function IsSubset( const A, B : CharSet) : Boolean
7224: Function IsEqual( const A, B : CharSet) : Boolean
7225: Function IsEmpty( const C : CharSet) : Boolean
7226: Function IsComplete( const C : CharSet) : Boolean
7227: Function cCharCount( const C : CharSet) : Integer
7228: Procedure ConvertCaseInsensitive( var C : CharSet)
7229: Function CaseInsensitiveCharSet( const C : CharSet) : CharSet
7230: Function IntRangeLength( const Low, High : Integer) : Int64
7231: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer) : Boolean
7232: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer) : Boolean
7233: Function IntRangeHasElement( const Low, High, Element : Integer) : Boolean
7234: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer) : Boolean
7235: Function IntRangeIncludeElementRange(var Low, High:Integer;const LowElement,HighElement:Integer):Boolean
7236: Function CardRangeLength( const Low1, High1, Low2, High2 : Cardinal) : Int64
7237: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7238: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal) : Boolean

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7239: Function CardRangeHasElement( const Low, High, Element : Cardinal ) : Boolean
7240: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal ) : Boolean
7241: Function CardRangeIncludeElementRange(var Low,High:Card;const LowElement,HighElement:Card):Boolean;
7242: AddTypes('UnicodeChar', 'WideChar'
7243: Function Compare( const I1, I2 : Boolean ) : TCompareResult;
7244: Function CompareI( const I1, I2 : Integer ) : TCompareResult;
7245: Function Compare2( const I1, I2 : Int64 ) : TCompareResult;
7246: Function Compare3( const I1, I2 : Extended ) : TCompareResult;
7247: Function CompareA( const I1, I2 : AnsiString ) : TCompareResult
7248: Function CompareW( const I1, I2 : WideString ) : TCompareResult
7249: Function cSgn( const A : LongInt ) : Integer;
7250: Function cSgn1( const A : Int64 ) : Integer;
7251: Function cSgn2( const A : Extended ) : Integer;
7252: AddTypes('TConvertResult', '( convertOK, convertFormatError, convertOverflow )
7253: Function AnsiCharToInt( const A : AnsiChar ) : Integer
7254: Function WideCharToInt( const A : WideChar ) : Integer
7255: Function CharToInt( const A : Char ) : Integer
7256: Function IntToAnsiChar( const A : Integer ) : AnsiChar
7257: Function IntToWideChar( const A : Integer ) : WideChar
7258: Function IntToChar( const A : Integer ) : Char
7259: Function IsHexAnsiChar( const Ch : AnsiChar ) : Boolean
7260: Function IsHexWideChar( const Ch : WideChar ) : Boolean
7261: Function IsHexChar( const Ch : Char ) : Boolean
7262: Function HexAnsiCharToInt( const A : AnsiChar ) : Integer
7263: Function HexWideCharToInt( const A : WideChar ) : Integer
7264: Function HexCharToInt( const A : Char ) : Integer
7265: Function IntToUpperHexAnsiChar( const A : Integer ) : AnsiChar
7266: Function IntToUpperHexWideChar( const A : Integer ) : WideChar
7267: Function IntToUpperHexChar( const A : Integer ) : Char
7268: Function IntToLowerHexAnsiChar( const A : Integer ) : AnsiChar
7269: Function IntToLowerHexWideChar( const A : Integer ) : WideChar
7270: Function IntToLowerHexChar( const A : Integer ) : Char
7271: Function IntToStringA( const A : Int64 ) : AnsiString
7272: Function IntToStringW( const A : Int64 ) : WideString
7273: Function IntToString( const A : Int64 ) : String
7274: Function UIntToStringA( const A : NativeUInt ) : AnsiString
7275: Function UIntToStringW( const A : NativeUInt ) : WideString
7276: Function UIntToString( const A : NativeUInt ) : String
7277: Function LongWordToStrA( const A : LongWord; const Digits : Integer ) : AnsiString
7278: Function LongWordToStrW( const A : LongWord; const Digits : Integer ) : WideString
7279: Function LongWordToStrU( const A : LongWord; const Digits : Integer ) : UnicodeString
7280: Function LongWordToStr( const A : LongWord; const Digits : Integer ) : String
7281: Function LongWordToHexA( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):AnsiString;
7282: Function LongWordToHexW( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):WideString;
7283: Function LongWordToHex( const A : LongWord; const Digits : Integer;const UpperCase:Boolean):String
7284: Function LongWordToOctA( const A : LongWord; const Digits : Integer ) : AnsiString
7285: Function LongWordToOctW( const A : LongWord; const Digits : Integer ) : WideString
7286: Function LongWordToOct( const A : LongWord; const Digits : Integer ) : String
7287: Function LongWordToBinA( const A : LongWord; const Digits : Integer ) : AnsiString
7288: Function LongWordToBinW( const A : LongWord; const Digits : Integer ) : WideString
7289: Function LongWordToBin( const A : LongWord; const Digits : Integer ) : String
7290: Function TryStringToInt64A( const S : AnsiString; out A : Int64 ) : Boolean
7291: Function TryStringToInt64W( const S : WideString; out A : Int64 ) : Boolean
7292: Function TryStringToInt64( const S : String; out A : Int64 ) : Boolean
7293: Function StringToInt64DefA( const S : AnsiString; const Default : Int64 ) : Int64
7294: Function StringToInt64DefW( const S : WideString; const Default : Int64 ) : Int64
7295: Function StringToInt64Def( const S : String; const Default : Int64 ) : Int64
7296: Function StringToInt64A( const S : AnsiString ) : Int64
7297: Function StringToInt64W( const S : WideString ) : Int64
7298: Function StringToInt64( const S : String ) : Int64
7299: Function TryStringToIntA( const S : AnsiString; out A : Integer ) : Boolean
7300: Function TryStringToIntW( const S : WideString; out A : Integer ) : Boolean
7301: Function TryStringToInt( const S : String; out A : Integer ) : Boolean
7302: Function StringToIntDefA( const S : AnsiString; const Default : Integer ) : Integer
7303: Function StringToIntDefW( const S : WideString; const Default : Integer ) : Integer
7304: Function StringToIntDef( const S : String; const Default : Integer ) : Integer
7305: Function StringToIntA( const S : AnsiString ) : Integer
7306: Function StringToIntW( const S : WideString ) : Integer
7307: Function StringToInt( const S : String ) : Integer
7308: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7309: Function TryStringToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7310: Function TryStringToLongWord( const S : String; out A : LongWord ) : Boolean
7311: Function StringToLongWordA( const S : AnsiString ) : LongWord
7312: Function StringToLongWordW( const S : WideString ) : LongWord
7313: Function StringToLongWord( const S : String ) : LongWord
7314: Function HexToUIntA( const S : AnsiString ) : NativeUInt
7315: Function HexToUIntW( const S : WideString ) : NativeUInt
7316: Function HexToUInt( const S : String ) : NativeUInt
7317: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7318: Function TryHexToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7319: Function TryHexToLongWord( const S : String; out A : LongWord ) : Boolean
7320: Function HexToLongWordA( const S : AnsiString ) : LongWord
7321: Function HexToLongWordW( const S : WideString ) : LongWord
7322: Function HexToLongWord( const S : String ) : LongWord
7323: Function TryOctoToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7324: Function TryOctoToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7325: Function TryOctoToLongWord( const S : String; out A : LongWord ) : Boolean
7326: Function OctoToLongWordA( const S : AnsiString ) : LongWord
7327: Function OctoToLongWordW( const S : WideString ) : LongWord

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7328: Function OctToLongWord( const S : String ) : LongWord
7329: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7330: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7331: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7332: Function BinToLongWordA( const S : AnsiString ) : LongWord
7333: Function BinToLongWordW( const S : WideString ) : LongWord
7334: Function BinToLongWord( const S : String ) : LongWord
7335: Function FloatToStringA( const A : Extended ) : AnsiString
7336: Function FloatToStringW( const A : Extended ) : WideString
7337: Function FloatToString( const A : Extended ) : String
7338: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7339: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7340: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7341: Function StringToFloatA( const A : AnsiString ) : Extended
7342: Function StringToFloatW( const A : WideString ) : Extended
7343: Function StringToFloat( const A : String ) : Extended
7344: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7345: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7346: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended
7347: Function EncodeBase64( const S, Alphabet : AnsiString; const Pad : Boolean; const PadMultiple : Integer; const PadChar : AnsiChar ) : AnsiString
7348: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7349: unit uPSI_cfFundamentUtils;
7350: Const ('b64_MIMEBase64','Str').String('ABCDEFIGHJKLMNOPQRSTUVWXYZabcdeghi jklmnopqrstuvwxyz0123456789+/')
7351: Const ('b64_UUEncode','String').String('!#$%^&()_*+,.-./0123456789:;<>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\']^_');
7352: Const ('b64_XXEncode','String').String('+0123456789ABCDEFGHIJKLMNPQRSTUVWXYZabcdeghi jklmnopqrstuvwxyz');
7353: Const ('CCHARSET','Stringb64_XXEncode');
7354: Const ('CHEXSET','String'0123456789ABCDEF
7355: Const ('HEXDIGITS','String'0123456789ABCDEF
7356: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7357: Const ('DIGISET','String'0123456789
7358: Const ('LETTERSET','String'ABCDEFGHIJKLMNPQRSTUVWXYZ
7359: Const ('DIGISET2','TCharset').SetSet('0123456789'
7360: Const ('LETTERSET2','TCharset').SetSet('ABCDEFGHIJKLMNPQRSTUVWXYZ'
7361: Const ('HEXSET2','TCharset').SetSet('0123456789ABCDEF');
7362: Const ('NUMBERSET','TCharset').SetSet('0123456789');
7363: Const ('NUMBERS','String'0123456789');
7364: Const ('LETTERS','String'ABCDEFGHIJKLMNPQRSTUVWXYZ');
7365: Function CharSetToStr( const C : CharSet ) : AnsiString
7366: Function StrToCharSet( const S : AnsiString ) : CharSet
7367: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7368: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7369: Function UUDecode( const S : AnsiString ) : AnsiString
7370: Function XXDecode( const S : AnsiString ) : AnsiString
7371: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7372: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7373: Function InterfaceToStrW( const I : IInterface ) : WideString
7374: Function InterfaceToStr( const I : IInterface ) : String
7375: Function ObjectClassName( const O : TObject ) : String
7376: Function ClassClassName( const C : TClass ) : String
7377: Function ObjectToStr( const O : TObject ) : String
7378: Function ObjectToString( const O : TObject ) : String
7379: Function CharSetToStr( const C : CharSet ) : AnsiString
7380: Function StrToCharSet( const S : AnsiString ) : CharSet
7381: Function HashStrA( const S : AnsiString; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7382: Function HashStrW( const S : WideString; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7383: Function HashStr( const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7384: Function HashInteger( const I : Integer; const Slots : LongWord ) : LongWord
7385: Function HashLongWord( const I : LongWord; const Slots : LongWord ) : LongWord
7386: Const ('Bytes1KB','LongInt'( 1024 );
7387: SIRRegister_IInterface(CL);
7388: Procedure SelfTestCFundamentUtils
7389:
7390: Function CreateSchedule : IJclSchedule
7391: Function NullStamp : TTimeStamp
7392: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7393: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7394: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7395:
7396: procedure SIRRegister_uwinplot(CL: TPSPascalCompiler);
7397: begin
7398: AddTypeS('TFunc', 'function(X : Float) : Float;
7399: Function InitGraphics( Width, Height : Integer ) : Boolean
7400: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean )
7401: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
7402: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )
7403: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float )
7404: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float )
7405: Procedure SetGraphTitle( Title : String )
7406: Procedure SetOxTitle( Title : String )
7407: Procedure SetOyTitle( Title : String )
7408: Function GetGraphTitle : String
7409: Function GetOxTitle : String
7410: Function GetOyTitle : String
7411: Procedure PlotOxAxis( Canvas : TCanvas )
7412: Procedure PlotOyAxis( Canvas : TCanvas )

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7413: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid)
7414: Procedure WriteGraphTitle( Canvas : TCanvas)
7415: Function SetMaxCurv( NCurv : Byte) : Boolean
7416: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor)
7417: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor)
7418: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String)
7419: Procedure SetCurvStep( CurvIndex, Step : Integer)
7420: Function GetMaxCurv : Byte
7421: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor)
7422: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7423: Function GetCurvLegend( CurvIndex : Integer) : String
7424: Function GetCurvStep( CurvIndex : Integer) : Integer
7425: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer)
7426: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer)
7427: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7428: Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7429: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean)
7430: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
7431: Function Xpixel( X : Float) : Integer
7432: Function Ypixel( Y : Float) : Integer
7433: Function Xuser( X : Integer) : Float
7434: Function Yuser( Y : Integer) : Float
7435: end;
7436:
7437: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7438: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7439: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector)
7440: Procedure FFT_Integer_Cleanup
7441: Procedure CalcFrequency(NumSamples,FrequencyIndex: Integer;InArray: TCompVector;var FT : Complex)
7442: //unit uPSI_JclStreams;
7443: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin) : Int64
7444: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer) : Int64
7445: Function CompareStreams( A, B : TStream; BufferSize : Integer) : Boolean
7446: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer) : Boolean
7447:
7448: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7449: begin
7450:   FindClass('TOBJECT'), 'EInvalidDest
7451:   FindClass('TOBJECT'), 'EFCantMove
7452:   Procedure fmxCopyfile( const FileName, DestName : string)
7453:   Procedure fmxMovefile( const FileName, DestName : string)
7454:   Function fmxGetFileSize( const FileName : string) : LongInt
7455:   Function fmxfileDateTime( const FileName : string) : TDateTime
7456:   Function fmxHasAttr( const FileName : string; Attr : Word) : Boolean
7457:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7458: end;
7459:
7460: procedure SIRegister_FindFileIterator(CL: TPSPascalCompiler);
7461: begin
7462:   SIRegister_IFindFileIterator(CL);
7463:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7464: end;
7465:
7466: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7467: begin
7468:   Function SkipWhite( cp : PChar) : PChar
7469:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7470:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7471:   Function ReadIdent( cp : PChar; var ident : string) : PChar
7472: end;
7473:
7474: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7475: begin
7476:   SIRegister_TStringHashMapTraits(CL);
7477:   Function CaseSensitiveTraits : TStringHashMapTraits
7478:   Function CaseInsensitiveTraits : TStringHashMapTraits
7479:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod'
7480:   +'e; Right : PHashNode; end
7481:   //PHashArray', '^THashArray // will not work
7482:   SIRegister_TStringHashMap(CL);
7483:   THashValue', 'Cardinal
7484:   Function StrHash( const s : string) : THashValue
7485:   Function TextHash( const s : string) : THashValue
7486:   Function DataHash( var Value, ASize : Cardinal) : THashValue
7487:   Function Iterate_FreeObjects( AUUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7488:   Function Iterate_Dispose( AUUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7489:   Function Iterate_FreeMem( AUUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7490:   SIRegister_TCaseSensitiveTraits(CL);
7491:   SIRegister_TCaseInsensitiveTraits(CL);
7492:
7493:
7494: //*****unit uPSI_umath;
7495:   Function uExp( X : Float) : Float
7496:   Function uExp2( X : Float) : Float
7497:   Function uExp10( X : Float) : Float
7498:   Function uLog( X : Float) : Float
7499:   Function uLog2( X : Float) : Float
7500:   Function uLog10( X : Float) : Float
7501:   Function uLogA( X, A : Float) : Float

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7502: Function uIntPower( X : Float; N : Integer) : Float
7503: Function uPower( X, Y : Float) : Float
7504: Function SgnGamma( X : Float) : Integer
7505: Function Stirling( X : Float) : Float
7506: Function StirLog( X : Float) : Float
7507: Function Gamma( X : Float) : Float
7508: Function LnGamma( X : Float) : Float
7509: Function DiGamma( X : Float) : Float
7510: Function TriGamma( X : Float) : Float
7511: Function IGamma( X : Float) : Float
7512: Function JGamma( X : Float) : Float
7513: Function InvGamma( X : Float) : Float
7514: Function Erf( X : Float) : Float
7515: Function Erfc( X : Float) : Float
7516: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7517: { Correlation coefficient between samples X and Y }
7518: function DBeta(A, B, X : Float) : Float;
7519: { Density of Beta distribution with parameters A and B }
7520: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7521: Function Beta(X, Y : Float) : Float
7522: Function Binomial( N, K : Integer) : Float
7523: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7524: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7525: Procedure LU_Decompo(A : TMatrix; Lb, Ub : Integer)
7526: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7527: Function DNorm( X : Float) : Float
7528:
7529: function DGamma(A, B, X : Float) : Float;
7530: { Density of Gamma distribution with parameters A and B }
7531: function DKhi2(Nu : Integer; X : Float) : Float;
7532: { Density of Khi-2 distribution with Nu d.o.f. }
7533: function DStudent(Nu : Integer; X : Float) : Float;
7534: { Density of Student distribution with Nu d.o.f. }
7535: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float;
7536: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
7537: function IBeta(A, B, X : Float) : Float;
7538: { Incomplete Beta function }
7539: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7540:
7541: procedure SIRegister_unlfit(CL: TPSpascalCompiler);
7542: begin
7543: Procedure SetOptAlgo( Algo : TOptAlgo)
7544: procedure SetOptAlgo(Algo : TOptAlgo);
7545: { -----
7546: Sets the optimization algorithm according to Algo, which must be
7547: NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ }
7548:
7549: Function GetOptAlgo : TOptAlgo
7550: Procedure SetMaxParam( N : Byte)
7551: Function GetMaxParam : Byte
7552: Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7553: Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7554: Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7555: Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y : TVector; Lb, Ub : Integer; MaxIter : Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7556: Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y, S : TVector; Lb, Ub : Integer; MaxIter : Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7557: Procedure SetMCFile( FileName : String)
7558: Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7559: Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
LastPar:Integer;V:TMatrix);
7560: end;
7561:
7562: (*-----*)
7563: procedure SIRegister_usimplex(CL: TPSpascalCompiler);
7564: begin
7565: Procedure SaveSimplex(FileName : string)
7566: Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7567: end;
7568: (*-----*)
7569: procedure SIRegister_uregtest(CL: TPSpascalCompiler);
7570: begin
7571: Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest)
7572: Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest);
7573: end;
7574:
7575: procedure SIRegister_ustrings(CL: TPSpascalCompiler);
7576: begin
7577: Function LTrim( S : String) : String
7578: Function RTrim( S : String) : String
7579: Function uTrim( S : String) : String
7580: Function StrChar( N : Byte; C : Char) : String
7581: Function RFill( S : String; L : Byte) : String
7582: Function LFill( S : String; L : Byte) : String
7583: Function CFill( S : String; L : Byte) : String
7584: Function Replace( S : String; C1, C2 : Char) : String
7585: Function Extract( S : String; var Index : Byte; Delim : Char) : String
7586: Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7587: Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)

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7588: Function FloatStr( X : Float ) : String
7589: Function IntStr( N : LongInt ) : String
7590: Function uCompStr( Z : Complex ) : String
7591: end;
7592:
7593: procedure SIRegister_uhyper(CL: TPSPascalCompiler);
7594: begin
7595:   Function uSinh( X : Float ) : Float
7596:   Function uCosh( X : Float ) : Float
7597:   Function uTanh( X : Float ) : Float
7598:   Function uArcSinh( X : Float ) : Float
7599:   Function uArcCosh( X : Float ) : Float
7600:   Function ArcTanh( X : Float ) : Float
7601:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7602: end;
7603:
7604: procedure SIRegister_urandom(CL: TPSPascalCompiler);
7605: begin
7606: type RNG_Type =
7607:   (RNG_MWC,           { Multiply-With-Carry }
7608:    RNG_MT,            { Mersenne Twister }
7609:    RNG_UVAG);        { Universal Virtual Array Generator }
7610: Procedure SetRNG( RNG : RNG_Type )
7611: Procedure InitGen( Seed : RNG_IntType )
7612: Procedure SRand( Seed : RNG_IntType )
7613: Function IRanGen : RNG_IntType
7614: Function IRanGen31 : RNG_IntType
7615: Function RanGen1 : Float
7616: Function RanGen2 : Float
7617: Function RanGen3 : Float
7618: Function RanGen53 : Float
7619: end;
7620:
7621: // Optimization by Simulated Annealing
7622: procedure SIRegister_usimann(CL: TPSPascalCompiler);
7623: begin
7624:   Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float )
7625:   Procedure SA_CreateLogFile( FileName : String )
7626:   Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float );
7627: end;
7628:
7629: procedure SIRegister_uranuvag(CL: TPSPascalCompiler);
7630: begin
7631:   Procedure InitUVAGbyString( KeyPhrase : string )
7632:   Procedure InitUVAG( Seed : RNG_IntType )
7633:   Function IRanUVAG : RNG_IntType
7634: end;
7635:
7636: procedure SIRegister_ugenalg(CL: TPSPascalCompiler);
7637: begin
7638:   Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float )
7639:   Procedure GA_CreateLogFile( LogFileName : String )
7640:   Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float );
7641: end;
7642:
7643: TVector', 'array of Float
7644: procedure SIRegister_uqsort(CL: TPSPascalCompiler);
7645: begin
7646:   Procedure QSort( X : TVector; Lb, Ub : Integer )
7647:   Procedure DQSort( X : TVector; Lb, Ub : Integer )
7648: end;
7649:
7650: procedure SIRegister_uinterv(CL: TPSPascalCompiler);
7651: begin
7652:   Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float )
7653:   Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float )
7654: end;
7655:
7656: procedure SIRegister_D2XXUnit(CL: TPSPascalCompiler);
7657: begin
7658:   FT_Result', 'Integer
7659:   //TDWordptr', '^DWord // will not work
7660:   TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWor'
7661:   d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PCha'
7662:   r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'
7663:   ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7664:   yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7665:   te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7666:   ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7667:   erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7668:   Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By'
7669:   te; IFAIsFastSer : Byte; AIsVCP : Byte; IFBIIsFifo : Byte; IFBIIsFifoTar : B'
7670:   yte; IFBIIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '
7671:   Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; I'
7672:   nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv'
7673:   ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 '
7674:   : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIsvCP : B'
7675:   yte; end
7676: end;

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7677:
7678:
7679: //***** PaintFX*****
7680: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7681: begin
7682:   //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7683:   with AddClassN(FindClass('TComponent'),'TJvPaintFX') do begin
7684:     Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7685:     Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7686:     Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7687:     Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7688:     Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7689:     Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7690:     Procedure Turn( Src, Dst : TBitmap)
7691:     Procedure TurnRight( Src, Dst : TBitmap)
7692:     Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7693:     Procedure TexturizeTile( const Dst : TBitmap; Amount : Integer)
7694:     Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7695:     Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7696:     Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7697:     Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7698:     Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7699:     Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7700:     Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7701:     Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7702:     Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7703:     Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7704:     Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7705:     Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7706:     Procedure Emboss( var Bmp : TBitmap)
7707:     Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7708:     Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7709:     Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7710:     Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7711:     Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7712:     Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7713:     Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7714:     Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7715:     Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7716:     Procedure QuartoOpaque( Src, Dst : TBitmap)
7717:     Procedure SemiOpaque( Src, Dst : TBitmap)
7718:     Procedure ShadowDownLeft( const Dst : TBitmap)
7719:     Procedure ShadowDownRight( const Dst : TBitmap)
7720:     Procedure ShadowUpLeft( const Dst : TBitmap)
7721:     Procedure ShadowUpRight( const Dst : TBitmap)
7722:     Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7723:     Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7724:     Procedure FlipRight( const Dst : TBitmap)
7725:     Procedure FlipDown( const Dst : TBitmap)
7726:     Procedure Spotlight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7727:     Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7728:     Procedure MakeSeamlessClip( var Dst : TBitmap; Sean : Integer)
7729:     Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7730:     Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7731:     Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7732:     Procedure SmoothResize( var Src, Dst : TBitmap)
7733:     Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7734:     Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7735:     Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7736:     Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7737:     Procedure GrayScale( const Dst : TBitmap)
7738:     Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7739:     Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7740:     Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7741:     Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7742:     Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7743:     Procedure Spray( const Dst : TBitmap; Amount : Integer)
7744:     Procedure Antialias( const Dst : TBitmap)
7745:     Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7746:     Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7747:     Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7748:     Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7749:     Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7750:     Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7751:     Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7752:     Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7753:     Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7754:     Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7755:     Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7756:     Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7757:     Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7758:     Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7759:     Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7760:     Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7761:     Procedure Invert( Src : TBitmap)
7762:     Procedure MirrorRight( Src : TBitmap)
7763:     Procedure MirrorDown( Src : TBitmap)
7764:   end;
7765: end;

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7766:
7767: (*-----*)
7768: procedure SIRегистер_JvPaintFX(CL: TPSPascalCompiler);
7769: begin
7770:   AddTypeS('TLightBrush', '(
    lbBrightness, lbContrast, lbSaturation, lbFishe'
7771:   + 'ye, lbrotaTe, lbtwist, lbrimble, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7772:   + 'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )
7773:   SIRегистер_TJvPaintFX(CL);
7774:   Function SplineFilter( Value : Single ) : Single
7775:   Function BellFilter( Value : Single ) : Single
7776:   Function TriangleFilter( Value : Single ) : Single
7777:   Function BoxFilter( Value : Single ) : Single
7778:   Function HermiteFilter( Value : Single ) : Single
7779:   Function Lanczos3Filter( Value : Single ) : Single
7780:   Function MitchellFilter( Value : Single ) : Single
7781: end;
7782:
7783:
7784: (*-----*)
7785: procedure SIRегистер_Chart(CL: TPSPascalCompiler);
7786: begin
7787:   'TeeMsg_DefaultFunctionName', 'String 'TeeFunction
7788:   TeeMsg_DefaultSeriesName', 'String 'Series
7789:   TeeMsg_DefaultToolName', 'String 'ChartTool
7790:   ChartComponentPalette', 'string 'TeeChart
7791:   TeeMaxLegendColumns', 'LongInt'( 2 );
7792:   TeeDefaultLegendSymbolWidth', 'LongInt'( 20 );
7793:   TeeTitleFootDistance, LongInt( 5 );
7794:   SIRегистер_TCustomChartWall(CL);
7795:   SIRегистер_TChartWall(CL);
7796:   SIRегистер_TChartLegendGradient(CL);
7797:   TLegendStyle', '(
    lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7798:   TLegendAlignment', '(
    laLeft, laRight, laTop, laBottom )
7799:   FindClass('TOBJECT'), 'LegendException
7800:   TOnGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7801:   +'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7802:   FindClass('TOBJECT'), 'TCustomChartLegend
7803:   TLegendSymbolSize', '( lcsPercent, lcsPixels )
7804:   TLegendSymbolPosition', '( spLeft, spright )
7805:   TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7806:   TSymbolCalcHeight', 'Function : Integer
7807:   SIRегистер_TLegendSymbol(CL);
7808:   SIRегистер_TTeeCustomShapePosition(CL);
7809:   TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7810:   SIRегистер_TLegendTitle(CL);
7811:   SIRегистер_TLegendItem(CL);
7812:   SIRегистер_TLegendItems(CL);
7813:   TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7814:   FindClass('TOBJECT'), 'TCustomChart
7815:   SIRегистер_TCustomChartLegend(CL);
7816:   SIRегистер_TChartLegend(CL);
7817:   SIRегистер_TChartTitle(CL);
7818:   SIRегистер_TChartFootTitle(CL);
7819:   TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7820:   +'eButton; Shift : TShiftState; X, Y : Integer)
7821:   TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7822:   +'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7823:   TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7824:   +'TChartSeries; ValueIndex : Integer; Button: TMouseButton; Shift:TShiftState;X,Y:Integer)
7825:   TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7826:   +'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7827:   TOnGetLegendPos', 'Procedure (Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7828:   TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7829:   TAxissavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7830:   +'toMax : Boolean; Min : Double; Max : Double; end
7831:   TAxissavedScales', 'array of TAxissavedScales
7832:   SIRегистер_TChartBackWall(CL);
7833:   SIRегистер_TChartRightWall(CL);
7834:   SIRегистер_TChartBottomWall(CL);
7835:   SIRегистер_TChartLeftWall(CL);
7836:   SIRегистер_TChartWalls(CL);
7837:   TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7838:   SIRегистер_TCustomChart(CL);
7839:   SIRегистер_TChart(CL);
7840:   SIRегистер_TTeeSeriesTypes(CL);
7841:   SIRегистер_TTeeToolTypes(CL);
7842:   SIRегистер_TTeeDragObject(CL);
7843:   SIRегистер_TColorPalettes(CL);
7844:   Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
      AGalleryPage:PString;ANumGallerySeries:Integer;
7845:   Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADescrption : PString);
7846:   Procedure RegisterTeeFunction(AFuncClass:TTeeFunctionClass;ADescription,
      AGalleryPage:PString;ANumGallerySeries: Int;
7847:   Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADescrption : PString)
7848:   Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass; AFunctionClass:TTeeFunctionClass;
      ADescrption, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7849:   Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7850:   Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7851:   Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)

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7852: Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass ) : TTeeFunction
7853: Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
  AFunctionClass : TTeeFunctionClass ) : TChartSeries
7854: Function CloneChartSeries( ASeries : TChartSeries ) : TChartSeries;
7855: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel ) : TChartSeries;
7856: Function CloneChartSeries2( ASeries : TChartSeries; AOwner : TComponent; AChart : TCustomAxisPanel ) : TChartSeries;;
7857: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7858: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass ) : TChartSeries
7859: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass )
7860: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7861: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass )
7862: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass )
7863: Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7864: Procedure PaintSeriesLegend( ASeries : TChartSeries; ACanvas : TCanvas; const
  R : TRect; ReferenceChart : TCustomChart );
7865: SIRegister_TChartTheme(CL);
7866: //TChartThemeClass', 'class of TChartTheme
7867: //TCanvasClass', 'class of TCanvas3D
7868: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7869: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7870: Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean )
7871: Procedure ShowMessageUser( const S : String )
7872: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7873: Function HasLabels( ASeries : TChartSeries ) : Boolean
7874: Function HasColors( ASeries : TChartSeries ) : Boolean
7875: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7876: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer )
7877: end;
7878:
7879:
7880: procedure SIRegister_TeeProcs(CL: TPPascalCompiler);
7881: begin
7882: // 'TeeFormBorderStyle', ' bsNone );
7883: SIRegister_TMetafile(CL);
7884: 'TeeDefVerticalMargin', 'LongInt'( 4 );
7885: 'TeeDefHorizMargin', 'LongInt'( 3 );
7886: 'crTeeHand', 'LongInt'( TCursor( 2020 ) );
7887: 'TeeMsg_TeeHand', 'String 'crTeeHand
7888: 'TeeNormalPrintDetail', 'LongInt'( 0 );
7889: 'TeeHighPrintDetail', 'LongInt'( - 100 );
7890: 'TeeDefault_PrintMargin', 'LongInt'( 15 );
7891: 'MaxDefaultColors', 'LongInt'( 19 );
7892: 'TeeTabDelimiter', 'Char #9';
7893: TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7894: + 'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7895: + 'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7896: + 'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7897: + 'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7898: + 'ourMonths, dtSixMonths, dtOneYear, dtNone )
7899: SIRegister_TCustomPanelNoCaption(CL);
7900: FindClass('TOBJECT'), 'TCustomTeePanel
7901: SIRegister_TZoomPanning(CL);
7902: SIRegister_TTeeEvent(CL);
7903: //SIRegister_TTeeEventListeners(CL);
7904: TTeeMouseEventKind', '( meDown, meUp, meMove )
7905: SIRegister_TTeeMouseEvent(CL);
7906: SIRegister_TCustomTeePanel(CL);
7907: //TChartGradient', 'TTeeGradient
7908: //TChartGradientClass', 'class of TChartGradient
7909: TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7910: SIRegister_TTeeZoomPen(CL);
7911: SIRegister_TTeeZoomBrush(CL);
7912: TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7913: SIRegister_TTeeZoom(CL);
7914: FindClass('TOBJECT'), 'TCustomTeePanelExtended
7915: TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7916: SIRegister_TBackImage(CL);
7917: SIRegister_TCustomTeePanelExtended(CL);
7918: //TChartBrushClass', 'class of TChartBrush
7919: SIRegister_TTeeCustomShapeBrushPen(CL);
7920: TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7921: TTextFormat', '( ttfNormal, ttfHtml )
7922: SIRegister_TTeeCustomShape(CL);
7923: SIRegister_TTeeShape(CL);
7924: SIRegister_TTeeExportData(CL);
7925: Function TeeStr( const Num : Integer ) : String
7926: Function DateTimeDefaultFormat( const AStep : Double ) : String
7927: Function TEEDaysInMonth( Year, Month : Word ) : Word
7928: Function FindDateTimeStep( const StepValue : Double ) : TDateTimeStep
7929: Function NextDateTimeStep( const AStep : Double ) : Double
7930: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
7931: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
7932: Function PointInLine2( const P, FromPoint, ToPoint : TPoint; const TolerancePixels : Integer ) : Boolean;
7933: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels : Integer ) : Boolean;
7934: Function PointInLineTolerance( const P : TPoint; const px, py, qx, qy, TolerancePixels : Integer ) : Boolean;
7935: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean;
7936: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;
7937: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
7938: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean;

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7939: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
7940: Function PointInEllipsel( const P: TPoint;Left,Top,Right, Bottom : Integer ) : Boolean;
7941: Function DelphiToLocalFormat( const Format : String ) : String
7942: Function LocalToDelphiFormat( const Format : String ) : String
7943: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
7944: Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime
7945: Procedure TeeDateTimeIncrement(IsDateTime:Boolean;Increment:Boolean;var Value:Double;const
    AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
7946:   TTeeSortCompare', 'Function ( a, b : Integer ) : Integer
7947:   TTeeSortSwap', 'Procedure ( a, b : Integer )
7948: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:TTeeSortCompare;SwapFunc:TTeeSortSwap);
7949: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string
7950: Function TeeExtractField( St : String; Index : Integer ) : String;
7951: Function TeeExtractFieldl( St : String; Index : Integer; const Separator : String ) : String;
7952: Function TeeNumFields( St : String ) : Integer;
7953: Function TeeNumFields1( const St, Separator : String ) : Integer;
7954: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap )
7955: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String )
7956: // TColorArray', 'array of TColor
7957: Function GetDefaultColor( const Index : Integer ) : TColor
7958: Procedure SetDefaultColorPalette;
7959: Procedure SetDefaultColorPalettes( const Palette : array of TColor );
7960: 'TeeCheckBoxSize', 'LongInt'( 11 );
7961: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
7962: Function TEEStrToFloatDef( const S : String; const Default : Extended ) : Extended
7963: Function TryStrToFloat( const S : String; var Value : Double ) : Boolean
7964: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double ) : Boolean
7965: Procedure TeeTranslateControl( AControl : TControl );
7966: Procedure TeeTranslateControl( AControl : TControl; const ExcludeChilds : array of TControl );
7967: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char ) : String
7968: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints )
7969: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean ) : TBitmap
7970: //Procedure DrawBevel(Canvas:T TeeCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
7971: //Function ScreenRatio( ACanvas : TCanvas3D ) : Double
7972: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean ) : Boolean
7973: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean )
7974: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer ) : Integer
7975: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer )
7976: Function TeeReadStringOption( const AKey, DefaultValue : String ) : String
7977: Procedure TeeSaveStringOption( const AKey, Value : String )
7978: Function TeeDefaultXMLEncoding : String
7979: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean )
7980: TeeWindowHandle', 'Integer
7981: Procedure TeeGotoURL( Handle : TeeWindowHandle; const URL : String )
7982: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String )
7983: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String ) : TSize
7984: end;
7985:
7986:
7987: using mXBDEUtils
7988: ****
7989: Procedure SetAlias( aAlias, aDirectory : String )
7990: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
    Desired:Variant;Size:Byte);
7991: Function GetFileVersionNumber( const FileName : String ) : TVersionNo
7992: Procedure SetBDE( aPath, aNode, aValue : String )
7993: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
7994: Function GetSystemDirectory( lpBuffer : string; uSize : UINT ) : UINT
7995: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT ) : UINT
7996: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string ) : DWORD
7997: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string ) : DWORD
7998: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
7999:
8000:
8001: procedure SIRegister_cDateTime(CL: TPPascalCompiler);
8002: begin
8003: AddClassN(FindClass('TOBJECT'), 'EDateTime
8004: Function DatePart( const D : TDateTime ) : Integer
8005: Function TimePart( const D : TDateTime ) : Double
8006: Function Century( const D : TDateTime ) : Word
8007: Function Year( const D : TDateTime ) : Word
8008: Function Month( const D : TDateTime ) : Word
8009: Function Day( const D : TDateTime ) : Word
8010: Function Hour( const D : TDateTime ) : Word
8011: Function Minute( const D : TDateTime ) : Word
8012: Function Second( const D : TDateTime ) : Word
8013: Function Millisecond( const D : TDateTime ) : Word
8014: ('OneDay','Extended').SetExtended( 1.0 );
8015: ('OneHour','Extended').SetExtended( OneDay / 24 );
8016: ('OneMinute','Extended').SetExtended( OneHour / 60 );
8017: ('OneSecond','Extended').SetExtended( OneMinute / 60 );
8018: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000 );
8019: ('OneWeek','Extended').SetExtended( OneDay * 7 );
8020: ('HoursPerDay','Extended').SetExtended( 24 );
8021: ('MinutesPerHour','Extended').SetExtended( 60 );
8022: ('SecondsPerMinute','Extended').SetExtended( 60 );
8023: Procedure SetYear( var D : TDateTime; const Year : Word )
8024: Procedure SetMonth( var D : TDateTime; const Month : Word )
8025: Procedure SetDay( var D : TDateTime; const Day : Word )

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8026: Procedure SetHour( var D : TDateTime; const Hour : Word)
8027: Procedure SetMinute( var D : TDateTime; const Minute : Word)
8028: Procedure SetSecond( var D : TDateTime; const Second : Word)
8029: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
8030: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
8031: Function IsEqual1( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8032: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8033: Function IsAM( const D : TDateTime) : Boolean
8034: Function IsPM( const D : TDateTime) : Boolean
8035: Function IsMidnight( const D : TDateTime) : Boolean
8036: Function IsNoon( const D : TDateTime) : Boolean
8037: Function IsSunday( const D : TDateTime) : Boolean
8038: Function IsMonday( const D : TDateTime) : Boolean
8039: Function IsTuesday( const D : TDateTime) : Boolean
8040: Function IsWednesday( const D : TDateTime) : Boolean
8041: Function IsThursday( const D : TDateTime) : Boolean
8042: Function IsFriday( const D : TDateTime) : Boolean
8043: Function IsSaturday( const D : TDateTime) : Boolean
8044: Function IsWeekend( const D : TDateTime) : Boolean
8045: Function Noon( const D : TDateTime) : TDateTime
8046: Function Midnight( const D : TDateTime) : TDateTime
8047: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8048: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8049: Function NextWorkday( const D : TDateTime) : TDateTime
8050: Function PreviousWorkday( const D : TDateTime) : TDateTime
8051: Function FirstDayOfYear( const D : TDateTime) : TDateTime
8052: Function LastDayOfYear( const D : TDateTime) : TDateTime
8053: Function EasterSunday( const Year : Word) : TDateTime
8054: Function GoodFriday( const Year : Word) : TDateTime
8055: Function AddMilliseconds( const D : TDateTime; const N : Int64) : TDateTime
8056: Function AddSeconds( const D : TDateTime; const N : Int64) : TDateTime
8057: Function AddMinutes( const D : TDateTime; const N : Integer) : TDateTime
8058: Function AddHours( const D : TDateTime; const N : Integer) : TDateTime
8059: Function AddDays( const D : TDateTime; const N : Integer) : TDateTime
8060: Function AddWeeks( const D : TDateTime; const N : Integer) : TDateTime
8061: Function AddMonths( const D : TDateTime; const N : Integer) : TDateTime
8062: Function AddYears( const D : TDateTime; const N : Integer) : TDateTime
8063: Function DayOfYear( const Ye, Mo, Da : Word) : Integer
8064: Function DayOfYear( const D : TDateTime) : Integer
8065: Function DaysInMonth( const Ye, Mo : Word) : Integer
8066: Function DaysInMonth( const D : TDateTime) : Integer
8067: Function DaysInYear( const Ye : Word) : Integer
8068: Function DaysInYearDate( const D : TDateTime) : Integer
8069: Function WeekNumber( const D : TDateTime) : Integer
8070: Function ISOFirstWeekOfYear( const Ye : Word) : TDateTime
8071: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word)
8072: Function DiffMilliseconds( const D1, D2 : TDateTime) : Int64
8073: Function DiffSeconds( const D1, D2 : TDateTime) : Integer
8074: Function DiffMinutes( const D1, D2 : TDateTime) : Integer
8075: Function DiffHours( const D1, D2 : TDateTime) : Integer
8076: Function DiffDays( const D1, D2 : TDateTime) : Integer
8077: Function DiffWeeks( const D1, D2 : TDateTime) : Integer
8078: Function DiffMonths( const D1, D2 : TDateTime) : Integer
8079: Function DiffYears( const D1, D2 : TDateTime) : Integer
8080: Function GMTBias : Integer
8081: Function GMTTimeToLocalTime( const D : TDateTime) : TDateTime
8082: Function LocalTimeToGMTTime( const D : TDateTime) : TDateTime
8083: Function NowAsGMTTime : TDateTime
8084: Function DateTimeToISO8601String( const D : TDateTime) : AnsiString
8085: Function ISO8601StringToTime( const D : AnsiString) : TDateTime
8086: Function ISO8601StringAsDateTime( const D : AnsiString) : TDateTime
8087: Function DatetimeToANSI( const D : TDateTime) : Integer
8088: Function ANSIToDateTime( const Julian : Integer) : TDateTime
8089: Function DateTimeToISOInteger( const D : TDateTime) : Integer
8090: Function DateTimeToISOString( const D : TDateTime) : AnsiString
8091: Function ISOIntegerToDateTime( const ISOInteger : Integer) : TDateTime
8092: Function TwoDigitRadix2000YearToYear( const Y : Integer) : Integer
8093: Function DateTimeAsElapsedTime(const D:TDateTime; const IncludeMilliseconds:Boolean):AnsiString
8094: Function UnixTimeToDateTime( const UnixTime : LongWord) : TDateTime
8095: Function DateTimeToUnixTime( const D : TDateTime) : LongWord
8096: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8097: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8098: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8099: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8100: Function EnglishShortMonthStrA( const Month : Integer) : AnsiString
8101: Function EnglishShortMonthStrU( const Month : Integer) : UnicodeString
8102: Function EnglishLongMonthStrA( const Month : Integer) : AnsiString
8103: Function EnglishLongMonthStrU( const Month : Integer) : UnicodeString
8104: Function EnglishShortDayOfWeekA( const S : AnsiString) : Integer
8105: Function EnglishShortDayOfWeekU( const S : UnicodeString) : Integer
8106: Function EnglishLongDayOfWeekA( const S : AnsiString) : Integer
8107: Function EnglishLongDayOfWeekU( const S : UnicodeString) : Integer
8108: Function EnglishShortMonthA( const S : AnsiString) : Integer
8109: Function EnglishShortMonthU( const S : UnicodeString) : Integer
8110: Function EnglishLongMonthA( const S : AnsiString) : Integer
8111: Function EnglishLongMonthU( const S : UnicodeString) : Integer
8112: Function RFC850DayOfWeekA( const S : AnsiString) : Integer
8113: Function RFC850DayOfWeekU( const S : UnicodeString) : Integer
8114: Function RFC1123DayOfWeekA( const S : AnsiString) : Integer

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8115: Function RFC1123DayOfWeekU( const S : UnicodeString) : Integer
8116: Function RFCMonthA( const S : AnsiString) : Word
8117: Function RFCMonthU( const S : UnicodeString) : Word
8118: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds:Boolean) : AnsiString
8119: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds:Boolean) : UnicodeString
8120: Function GMTDateTimeToRFC1123DateTimeA(const D : TDateTime; const IncludeDayOfWeek:Bool):AnsiString;
8121: Function GMTDateTimeToRFC1123DateTimeU(const D:TDateTime;const IncludeDayOfWeek:Bool):UnicodeString;
8122: Function DateTimeToRFCDateTimeA( const D : TDateTime) : AnsiString
8123: Function DateTimeToRFCDateTimeU( const D : TDateTime) : UnicodeString
8124: Function NowAsRFCDateTimeA : AnsiString
8125: Function NowAsRFCDateTimeU : UnicodeString
8126: Function RFCDateTimeToGMTDateTime( const S : AnsiString) : TDateTime
8127: Function RFCDateTimeToDateTIme( const S : AnsiString) : TDateTime
8128: Function RFCTimeZoneToGMTBias( const Zone : AnsiString) : Integer
8129: Function TimePeriodStr( const D : TDateTime) : AnsiString
8130: Procedure SelfTest
8131: end;
8132: //*****CFileUtils
8133: Function PathHasDriveLetterA( const Path : AnsiString) : Boolean
8134: Function PathHasDriveLetter( const Path : String) : Boolean
8135: Function PathIsDriveLetterA( const Path : AnsiString) : Boolean
8136: Function PathIsDriveLetter( const Path : String) : Boolean
8137: Function PathIsDriveRootA( const Path : AnsiString) : Boolean
8138: Function PathIsDriveRoot( const Path : String) : Boolean
8139: Function PathIsRootA( const Path : AnsiString) : Boolean
8140: Function PathIsRoot( const Path : String) : Boolean
8141: Function PathIsUNCPathA( const Path : AnsiString) : Boolean
8142: Function PathIsUNCPath( const Path : String) : Boolean
8143: Function PathIsAbsoluteA( const Path : AnsiString) : Boolean
8144: Function PathIsAbsolute( const Path : String) : Boolean
8145: Function PathIsDirectoryA( const Path : AnsiString) : Boolean
8146: Function PathIsDirectory( const Path : String) : Boolean
8147: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char) : AnsiString
8148: Function PathInclSuffix( const Path : String; const PathSep : Char) : String
8149: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char) : AnsiString
8150: Function PathExclSuffix( const Path : String; const PathSep : Char) : String
8151: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char)
8152: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char)
8153: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char)
8154: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char)
8155: //Function PathCanonicalA( const Path : AnsiString; const PathSep : Char) : AnsiString
8156: Function PathCanonical( const Path : String; const PathSep : Char) : String
8157: Function PathExpandA(const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8158: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char) : String
8159: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char) : AnsiString
8160: Function PathLeftElement( const Path : String; const PathSep : Char) : String
8161: Procedure PathSplitLeftElementA( const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char);
8162: Procedure PathSplitLeftElement( const Path:String; var LeftElement,RightPath: String;const PathSep:Char);
8163: Procedure DecodeFilePathA(const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char);
8164: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char)
8165: Function FileNameValidA( const FileName : AnsiString) : AnsiString
8166: Function FileNameValid( const FileName : String) : String
8167: Function FilePathA(const FileName,Path:AnsiString;const basePath:AnsiStr;const PathSep:Char):AnsiString;
8168: Function FilePath(const FileName, Path: String;const basePath: String;const PathSep : Char) : String
8169: Function DirectoryExpandA(const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8170: Function DirectoryExpand(const Path : String; const basePath : String; const PathSep : Char) : String
8171: Function UnixPathToWinPath( const Path : AnsiString) : AnsiString
8172: Function WinPathToUnixPath( const Path : AnsiString) : AnsiString
8173: Procedure CCopyFile( const FileName, DestName : String)
8174: Procedure CMoveFile( const FileName, DestName : String)
8175: Function CDeleteFiles( const FileMode : String) : Boolean
8176: Function FileSeekEx(const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8177: Procedure FileCloseEx( const FileHandle : TFileHandle)
8178: Function FileExistsA( const FileName : AnsiString) : Boolean
8179: Function CFileExists( const FileName : String) : Boolean
8180: Function CFileGetSize( const FileName : String) : Int64
8181: Function FileGetDateTime( const FileName : String) : TDateTime
8182: Function FileGetDateTime2( const FileName : String) : TDateTime
8183: Function FileIsReadOnly( const FileName : String) : Boolean
8184: Procedure FileDeleteEx( const FileName : String)
8185: Procedure FileRenameEx( const OldFileName, NewFileName : String)
8186: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode : TFileCreationMode; const FileOpenWait : PFileOpenWait) : AnsiString
8187: Function DirectoryEntryExists( const Name : String) : Boolean
8188: Function DirectoryEntrySize( const Name : String) : Int64
8189: Function CDirectoryExists( const DirectoryName : String) : Boolean
8190: Function DirectoryGetDateTime( const DirectoryName : String) : TDateTime
8191: Procedure CDirectoryCreate( const DirectoryName : String)
8192: Function GetFirstFileNameMatching( const FileMode : String) : String
8193: Function DirEntryGetAttr( const FileName : AnsiString) : Integer
8194: Function DirEntryIsDirectory( const FileName : AnsiString) : Boolean
8195: Function FileHasAttr( const FileName : String; const Attr : Word) : Boolean
8196: AddTypes('TLogicalDriveType', '( DriveRemovable, DriveFixed, DriveRemote, '
8197: +'DriveCDRom, DriveRamDisk, DriveTypeUnknown )'
8198: Function DriveIsValid( const Drive : Char) : Boolean
8199: Function DriveGetType( const Path : AnsiString) : TLogicalDriveType
8200: Function DriveFreeSpace( const Path : AnsiString) : Int64
8201:
8202: procedure SIRegister_cTimers(CL: TPSPascalCompiler);

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8203: begin
8204:   AddClassN(FindClass('TOBJECT'), 'ETimers
8205:   Const ('TickFrequency', 'LongInt'( 1000); Function GetTick : LongWord
8206:   Function TickDelta( const D1, D2 : LongWord) : Integer
8207:   Function TickDeltaW( const D1, D2 : LongWord) : LongWord
8208:   AddTypes('THPTimer', 'Int64
8209:   Procedure StartTimer( var Timer : THPTimer)
8210:   Procedure StopTimer( var Timer : THPTimer)
8211:   Procedure ResumeTimer( var StoppedTimer : THPTimer)
8212:   Procedure InitStoppedTimer( var Timer : THPTimer)
8213:   Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer)
8214:   Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean) : Integer
8215:   Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean) : Int64
8216:   Procedure WaitMicroseconds( const MicroSeconds : Integer)
8217:   Function GetHighPrecisionFrequency : Int64
8218:   Function GetHighPrecisionTimerOverhead : Int64
8219:   Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64)
8220:   Procedure SelfTestCTimer
8221: end;
8222:
8223: procedure SIRegister_cRandom(CL: TPSPPascalCompiler);
8224: begin
8225:   Function RandomSeed : LongWord
8226:   Procedure AddEntropy( const Value : LongWord)
8227:   Function RandomUniform : LongWord;
8228:   Function RandomUniform1( const N : Integer) : Integer;
8229:   Function RandomBoolean : Boolean
8230:   Function RandomByte : Byte
8231:   Function RandomByteNonZero : Byte
8232:   Function RandomWord : Word
8233:   Function RandomInt64 : Int64;
8234:   Function RandomInt641( const N : Int64) : Int64;
8235:   Function RandomHex( const Digits : Integer) : String
8236:   Function RandomFloat : Extended
8237:   Function RandomAlphaStr( const Length : Integer) : AnsiString
8238:   Function RandomPseudoWord( const Length : Integer) : AnsiString
8239:   Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8240:   Function mwcRandomLongWord : LongWord
8241:   Function urnRandomLongWord : LongWord
8242:   Function moaRandomFloat : Extended
8243:   Function mwcRandomFloat : Extended
8244:   Function RandomNormalF : Extended
8245:   Procedure SelfTestCRandom
8246: end;
8247:
8248: procedure SIRegister_SynEditMiscProcs(CL: TPSPPascalCompiler);
8249: begin
8250: // PIntArray', '^TIntArray // will not work
8251:   Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8252:   TConvertTabsProcEx,function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8253:   Function synMax( x, y : integer ) : integer
8254:   Function synMin( x, y : integer ) : integer
8255:   Function synMinMax( x, mi, ma : integer ) : integer
8256:   Procedure synSwapInt( var l, r : integer )
8257:   Function synMaxPoint( const P1, P2 : TPoint ) : TPoint
8258:   Function synMinPoint( const P1, P2 : TPoint ) : TPoint
8259: //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray
8260:   Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect )
8261:   Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc
8262:   Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString
8263:   Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx
8264:   Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8265:   Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer
8266:   Function synCharIndex2CaretPos( Index, TabWidth : integer; const Line : string ) : integer
8267:   Function synCaretPos2CharIndex(Position,TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8268:   Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSyIdentChars):integer;
8269:   Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSyIdentChars):integer;
8270:   TStringType', '( stNone, stHalfNumAlpha, stHalfSymbol, stHalfKat'
8271:   +'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida )
8272:   ('C3_NONSPACING','LongInt'( 1);
8273:   'C3_DIACRITIC','LongInt'( 2);
8274:   'C3_VOWELMARK','LongInt'( 4);
8275:   ('C3_SYMBOL','LongInt'( 8);
8276:   ('C3_KATAKANA','LongWord( $0010);
8277:   ('C3_HIRAGANA','LongWord( $0020);
8278:   ('C3_HALFWIDTH','LongWord( $0040);
8279:   ('C3_FULLWIDTH','LongWord( $0080);
8280:   ('C3_IDEOGRAPH','LongWord( $0100);
8281:   ('C3_KASHIDA','LongWord( $0200);
8282:   ('C3_LEXICAL','LongWord( $0400);
8283:   ('C3_ALPHA','LongWord( $8000);
8284:   ('C3_NOTAPPPLICABLE','LongInt'( 0);
8285:   Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8286:   Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8287:   Function synIsStringType( Value : Word ) : TStringType
8288:   Function synGetEOL( Line : PChar ) : PChar
8289:   Function synEncodeString( s : string ) : string
8290:   Function synDecodeString( s : string ) : string
8291:   Procedure synFreeAndNil( var Obj: TObject )

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8292: Procedure synAssert( Expr : Boolean)
8293: Function synLastDelimiter( const Delimiters, S : string ) : Integer
8294: TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8295: TReplaceFlags', 'set of TReplaceFlag )
8296: Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8297: Function synGetValue( RGBValue : TColor ) : byte
8298: Function synGetGValue( RGBValue : TColor ) : byte
8299: Function synGetBValue( RGBValue : TColor ) : byte
8300: Function synRGB( r, g, b : Byte ) : Cardinal
8301: // THighlighterAttriProc', 'Function ( Highlighter : TSynCustomHigh'
8302: // +'lighter; Attri:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8303: //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8304: HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer ) : Boolean
8305: Function synCalcFCS( const ABuf, ABufSize : Cardinal ) : Word
8306: Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
8307: AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8308: end;
8309: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM ) : WORD
8310: Function GET_DEVICE_LPARAM( lParam : LPARAM ) : WORD
8311: Function GET_KEYSTATE_LPARAM( lParam : LPARAM ) : WORD
8312: procedure SIRegister_synautil(CL: TPSPascalCompiler);
8313: begin
8314:   Function STimeZoneBias : integer
8315:   Function TimeZone : string
8316:   Function Rfc822DateTime( t : TDateTime ) : string
8317:   Function CDateTime( t : TDateTime ) : string
8318:   Function SimpleDateTime( t : TDateTime ) : string
8319:   Function AnsiCDateTime( t : TDateTime ) : string
8320:   Function GetMonthNumber( Value : String ) : integer
8321:   Function GetTimeFromStr( Value : string ) : TDateTime
8322:   Function GetDateMDYFromStr( Value : string ) : TDateTime
8323:   Function DecodeRFCDateTime( Value : string ) : TDateTime
8324:   Function GetUTTTime : TDateTime
8325:   Function SetUTTTime( Newdt : TDateTime ) : Boolean
8326:   Function SGetTick : LongWord
8327:   Function STickDelta( TickOld, TickNew : LongWord ) : LongWord
8328:   Function CodeInt( Value : Word ) : Ansistring
8329:   Function DecodeInt( const Value : Ansistring; Index : Integer ) : Word
8330:   Function CodeLongInt( Value : LongInt ) : Ansistring
8331:   Function DecodeLongInt( const Value : Ansistring; Index : Integer ) : LongInt
8332:   Function DumpStr( const Buffer : Ansistring ) : string
8333:   Function DumpExStr( const Buffer : Ansistring ) : string
8334:   Procedure Dump( const Buffer : AnsiString; DumpFile : string )
8335:   Procedure DumpEx( const Buffer : AnsiString; DumpFile : string )
8336:   Function TrimSPLeft( const S : string ) : string
8337:   Function TrimSPRight( const S : string ) : string
8338:   Function TrimSP( const S : string ) : string
8339:   Function SeparateLeft( const Value, Delimiter : string ) : string
8340:   Function SeparateRight( const Value, Delimiter : string ) : string
8341:   Function SGetParameter( const Value, Parameter : string ) : string
8342:   Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings )
8343:   Procedure ParseParameters( Value : string; const Parameters : TStrings )
8344:   Function IndexByBegin( Value : string; const List : TStrings ) : integer
8345:   Function GetEmailAddr( const Value : string ) : string
8346:   Function GetEmailDesc( Value : string ) : string
8347:   Function CStrToHex( const Value : Ansistring ) : string
8348:   Function CIntToBin( Value : Integer; Digits : Byte ) : string
8349:   Function CBinToInt( const Value : string ) : Integer
8350:   Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8351:   Function CReplaceString( Value, Search, Replace : AnsiString ) : AnsiString
8352:   Function CRPosEx( const Sub, Value : string; From : integer ) : Integer
8353:   Function CRPos( const Sub, Value : String ) : Integer
8354:   Function FetchBin( var Value : string; const Delimiter : string ) : string
8355:   Function CFetch( var Value : string; const Delimiter : string ) : string
8356:   Function FetchEx( var Value : string; const Delimiter, Quotation : string ) : string
8357:   Function IsBinaryString( const Value : AnsiString ) : Boolean
8358:   Function PosCRLF( const Value : AnsiString; var Terminator : AnsiString ) : integer
8359:   Procedure StringsTrim( const value : TStrings )
8360:   Function PosFrom( const SubStr, Value : String; From : integer ) : integer
8361:   Function IncPoint( const p : __pointer; Value : integer ) : __pointer
8362:   Function GetBetween( const PairBegin, PairEnd, Value : string ) : string
8363:   Function CCountOfChar( const Value : string; aChr : char ) : integer
8364:   Function UnquoteStr( const Value : string; Quote : Char ) : string
8365:   Function QuoteStr( const Value : string; Quote : Char ) : string
8366:   Procedure HeadersToList( const Value : TStrings )
8367:   Procedure ListToHeaders( const Value : TStrings )
8368:   Function SwapBytes( Value : integer ) : integer
8369:   Function ReadStrFromStream( const Stream : TStream; len : integer ) : AnsiString
8370:   Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString )
8371:   Function GetTempFile( const Dir, prefix : AnsiString ) : AnsiString
8372:   Function CPadString( const Value : AnsiString; len : integer; Pad : AnsiChar): AnsiString
8373:   Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8374:   Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8375: end;
8376:
8377: procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8378: begin

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8379: ('CrcBufSize','LongInt'( 2048);
8380: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
8381: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
8382: Function Adler32OfFile( FileName : AnsiString) : LongInt
8383: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8384: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8385: Function Crc16OfFile( FileName : AnsiString) : Cardinal
8386: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
8387: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
8388: Function Crc32OfFile( FileName : AnsiString) : LongInt
8389: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8390: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8391: Function InternetSumOfFile( FileName : AnsiString) : Cardinal
8392: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
8393: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
8394: Function Kermit16OfFile( FileName : AnsiString) : Cardinal
8395: end;
8396:
8397: procedure SIRegister_CoMObj(cl: TPSPPascalCompiler);
8398: begin
8399:   function CreateOleObject(const ClassName: String): IDispatch;
8400:   function GetActiveOleObject(const ClassName: String): IDispatch;
8401:   function ProgIDToClassID(const ProgID: string): TGUID;
8402:   function ClassIDToProgID(const ClassID: TGUID): string;
8403:   function CreateClassID: string;
8404:   function CreateGUIDString: string;
8405:   function CreateGUIDID: string;
8406:   procedure OleError(ErrorCode: longint)
8407:   procedure OleCheck(Result: HResult);
8408: end;
8409:
8410: Function xCreateOleObject( const ClassName : string) : Variant //or IDispatch
8411: Function xGetActiveOleObject( const ClassName : string) : Variant
8412: //Function DllGetClassObject( const CLSID : TCLSID; const IID : TIID; var Obj) : HResult
8413: Function DllCanUnloadNow : HResult
8414: Function DllRegisterServer : HResult
8415: Function DllUnregisterServer : HResult
8416: Function VarFromInterface( Unknown : IUnknown) : Variant
8417: Function VarToInterface( const V : Variant) : IDispatch
8418: Function VarToAutoObject( const V : Variant) : TAutoObject
8419: //Procedure
     DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
//Procedure DispInvokeError( Status : HResult; const ExcepInfo : TExcepInfo)
8420: Procedure OleError( ErrorCode : HResult)
8421: Procedure OleCheck( Result : HResult)
8422: Function StringToClassID( const S : string) : TCLSID
8423: Function ClassIDToString( const ClassID : TCLSID) : string
8424: Function xProgIDToClassID( const ProgID : string) : TCLSID
8425: Function xClassIDToProgID( const ClassID : TCLSID) : string
8426: Function xWideCompareStr( const S1, S2 : WideString) : Integer
8427: Function xWideSameStr( const S1, S2 : WideString) : Boolean
8428: Function xGUIDToString( const ClassID : TGUID) : string
8429: Function xStringToGUID( const S : string) : TGUID
8430: Function xGetModuleName( Module : HMODULE) : string
8431: Function xAcquireExceptionObject : TObject
8432: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer) : Integer
8433: Function xUtf8Encode( const WS : WideString) : UTF8String
8434: Function xUtf8Decode( const S : UTF8String) : WideString
8435: Function xExcludeTrailingPathDelimiter( const S : string) : string
8436: Function xIncludeTrailingPathDelimiter( const S : string) : string
8437: Function XRTLHandleCOMException : HResult
8438: Procedure XRTLCheckArgument( Flag : Boolean)
8439: //Procedure XRTLCheckOutArgument( out Arg)
8440: Procedure XRTLInterfaceConnect( const Source:IUnknown;const IID:TIID;const Sink:IUnknown;var Connection:Longint);
8441: Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID:TIID;var Connection : Longint)
8442: Function XRTLRegisterActiveObject( const Unk:IUnknown;ClassID:TCLSID;Flags:DWORD;var RegisterCookie:Int):HResult
8443: Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer) : HResult
8444: //Function XRTLGetActiveObject( ClassID : TCLSID; RIID : TIID; out Obj) : HResult
8445: Procedure XRTLEnumActiveObjects( Strings : TStrings)
8446: function XRTLDefaultCategoryManager: IUnknown;
8447: function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil): Boolean;
8448: // ICatRegister helper functions
8449: function XRTLCREATEComponentCategory(CatID: TGUID; CatDescription: WideString;
8450:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8451:                                         const CategoryManager: IUnknown = nil): HResult;
8452: function XRTLRemoveComponentCategory(CatID: TGUID; CatDescription: WideString;
8453:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8454:                                         const CategoryManager: IUnknown = nil): HResult;
8455: function XRTLRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
8456:                                         const CategoryManager: IUnknown = nil): HResult;
8457: function XRTLUUnRegisterCLSIDInCategory(ClsID: TGUID; CatID: TGUID;
8458:                                         const CategoryManager: IUnknown = nil): HResult;
8459:                                         const CategoryManager: IUnknown = nil): HResult;
8460: // ICatInformation helper functions
8461: function XRTLGetCategoryDescription(CatID: TGUID; var CatDescription: WideString;
8462:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8463:                                         const CategoryManager: IUnknown = nil): HResult;
8464: function XRTLGetCategoryList(Strings: TStrings; LocaleID: TGUID = LOCALE_USER_DEFAULT;

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8465:           const CategoryManager: IUnknown = nil): HResult;
8466: function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
8467:                                     const CategoryManager: IUnknown = nil): HResult;
8468: function XRTLGetCategoryProgIDLList(CatID: TGUID; Strings: TStrings;
8469:                                     const CategoryManager: IUnknown = nil): HResult;
8470: function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ');
8471:           const ADelete: Boolean = True): WideString;
8472: function XRTLRpos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8473: Function XRTLGetVariantAsString( const Value : Variant) : string
8474: Function XRTLDateTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone) : TDateTime
8475: Function XRTLGetTimeZones : TXRTLTimeZones
8476: Function XFfileTimeToDate( FileTime : TFileTime) : TDateTime
8477: Function DateToTimeToFileTime( DateTime : TDateTime) : TFileTime
8478: Function GMTNow : TDateTime
8479: Function GMTToLocalTime( GMT : TDateTime) : TDateTime
8480: Function LocalTimeToGMT( LocalTime : TDateTime) : TDateTime
8481: Procedure XRTLNotImplemented
8482: Procedure XTRTLRaiseError( E : Exception)
8483: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string)
8484:
8485:
8486: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8487: begin
8488:   SIRegister_IXRTLValue(CL);
8489:   SIRegister_TXRTLValue(CL);
8490:   //AddTypeS('PXRTLValueArray', '^IXRTLValueArray // will not work
8491:   AddTypeS('TXRTLValueArray', 'array of IXRTLValue
8492: Function XRTLValue( const AValue : Cardinal) : IXRTLValue;
8493: Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal) : Cardinal;
8494: Function XRTLGetAsCardinal( const IValue : IXRTLValue) : Cardinal
8495: Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal) : Cardinal
8496: Function XRTLValue1( const AValue : Integer) : IXRTLValue;
8497: Function XRTLSetValue1( const IValue : IXRTLValue; const AValue : Integer) : Integer;
8498: Function XRTLGetAsInteger( const IValue : IXRTLValue) : Integer
8499: Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer) : Integer
8500: Function XRTLValue2( const AValue : Int64) : IXRTLValue;
8501: Function XRTLSetValue2( const IValue : IXRTLValue; const AValue : Int64) : Int64;
8502: Function XRTLGetAsInt64( const IValue : IXRTLValue) : Int64
8503: Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64) : Int64
8504: Function XRTLValue3( const AValue : Single) : IXRTLValue;
8505: Function XRTLSetValue3( const IValue : IXRTLValue; const AValue : Single) : Single;
8506: Function XRTLGetAsSingle( const IValue : IXRTLValue) : Single
8507: Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single) : Single
8508: Function XRTLValue4( const AValue : Double) : IXRTLValue;
8509: Function XRTLSetValue4( const IValue : IXRTLValue; const AValue : Double) : Double;
8510: Function XRTLGetAsDouble( const IValue : IXRTLValue) : Double
8511: Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double) : Double
8512: Function XRTLValue5( const AValue : Extended) : IXRTLValue;
8513: Function XRTLSetValue5( const IValue : IXRTLValue; const AValue : Extended) : Extended;
8514: Function XRTLGetAsExtended( const IValue : IXRTLValue) : Extended
8515: Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended) : Extended
8516: Function XRTLValue6( const AValue : IInterface) : IXRTLValue;
8517: Function XRTLSetValue6( const IValue : IXRTLValue; const AValue : IInterface) : IInterface;
8518: Function XRTLGetAsInterface( const IValue : IXRTLValue) : IInterface;
8519: //Function XRTLGetAsInterface( const IValue : IXRTLValue; out Obj) : IInterface;
8520: Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface) : IInterface;
8521: Function XRTLValue7( const AValue : WideString) : IXRTLValue;
8522: Function XRTLSetValue7( const IValue : IXRTLValue; const AValue : WideString) : WideString;
8523: Function XRTLGetAsWideString( const IValue : IXRTLValue) : WideString
8524: Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString) : WideString
8525: Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean) : IXRTLValue;
8526: Function XRTLSetValue8( const IValue : IXRTLValue; const AValue : TObject) : TObject;
8527: Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean) : TObject;
8528: Function XRTLGetAsObjectDef( const IValue : IXRTLValue; const DefValue : TObject; const
     ADetachOwnership : Boolean) : TObject;
8529: //Function XRTLValue9( const AValue : _Pointer) : IXRTLValue;
8530: //Function XRTLSetValue9( const IValue : IXRTLValue; const AValue : _Pointer) : _Pointer;
8531: //Function XRTLGetAsPointer( const IValue : IXRTLValue) : _Pointer
8532: //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : _Pointer) : _Pointer
8533: Function XRTLValueV( const AValue : Variant) : IXRTLValue;
8534: Function XRTLSetValueV( const IValue : IXRTLValue; const AValue : Variant) : Variant;
8535: Function XRTLGetAsVariant( const IValue : IXRTLValue) : Variant
8536: Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant) : Variant
8537: Function XRTLValue10( const AValue : Currency) : IXRTLValue;
8538: Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency) : Currency;
8539: Function XRTLGetAsCurrency( const IValue : IXRTLValue) : Currency
8540: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency) : Currency
8541: Function XRTLValue11( const AValue : Comp) : IXRTLValue;
8542: Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp) : Comp;
8543: Function XRTLGetAsComp( const IValue : IXRTLValue) : Comp
8544: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp) : Comp
8545: Function XRTLValue12( const AValue : TClass) : IXRTLValue;
8546: Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass) : TClass;
8547: Function XRTLGetAsClass( const IValue : IXRTLValue) : TClass
8548: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass) : TClass
8549: Function XRTLValue13( const AValue : TGUID) : IXRTLValue;
8550: Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID) : TGUID;
8551: Function XRTLGetAsGUID( const IValue : IXRTLValue) : TGUID
8552: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID) : TGUID

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8553: Function XRTLValue14( const AValue : Boolean) : IXRTLValue;
8554: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean) : Boolean;
8555: Function XRTLGetAsBoolean( const IValue : IXRTLValue) : Boolean
8556: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean) : Boolean
8557: end;
8558:
8559: //*****unit uPSI_GR32;*****
8560:
8561: Function Color32( WinColor : TColor) : TColor32;
8562: Function Color321( R, G, B : Byte; A : Byte) : TColor32;
8563: Function Color322( Index : Byte; var Palette : TPalette32) : TColor32;
8564: Function Gray32( Intensity : Byte; Alpha : Byte) : TColor32
8565: Function WinColor( Color32 : TColor32) : TColor
8566: Function ArrayOfColor32( Colors : array of TColor32) : TArrayOfColor32
8567: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte)
8568: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte)
8569: Function Color32Components( R, G, B, A : Boolean) : TColor32Components
8570: Function RedComponent( Color32 : TColor32) : Integer
8571: Function GreenComponent( Color32 : TColor32) : Integer
8572: Function BlueComponent( Color32 : TColor32) : Integer
8573: Function AlphaComponent( Color32 : TColor32) : Integer
8574: Function Intensity( Color32 : TColor32) : Integer
8575: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer) : TColor32
8576: Function HSLtoRGB( H, S, L : Single) : TColor32;
8577: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single);
8578: Function HSLtoRGB1( H, S, L : Integer) : TColor32;
8579: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte);
8580: Function WinPalette( const P : TPalette32) : HPALETTE
8581: Function FloatPoint( X, Y : Single) : TFloatPoint;
8582: Function FloatPoint1( const P : TPoint) : TFfloatPoint;
8583: Function FloatPoint2( const FXP : TFfixedPoint) : TFfloatPoint;
8584: Function FixedPoint( X, Y : Integer) : TFfixedPoint;
8585: Function FixedPoint1( X, Y : Single) : TFfixedPoint;
8586: Function FixedPoint2( const P : TPoint) : TFfixedPoint;
8587: Function FixedPoint3( const FP : TFfloatPoint) : TFfixedPoint;
8588: AddTypeS('TRectRounding', '( rrClosest, rrOutside, rrInside )'
8589: Function MakeRect( const L, T, R, B : Integer) : TRect;
8590: Function MakeRect1( const FR : TFfloatRect; Rounding : TRectRounding) : TRect;
8591: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding) : TRect;
8592: Function GFFixedRect( const L, T, R, B : TFixed) : TRect;
8593: Function FixedRect1( const ARect : TRect) : TRect;
8594: Function FixedRect2( const FR : TFfloatRect) : TRect;
8595: Function GFFloatRect( const L, T, R, B : TFfloat) : TFfloatRect;
8596: Function FloatRect1( const ARect : TRect) : TFfloatRect;
8597: Function FloatRect2( const FXR : TRect) : TFfloatRect;
8598: Function GIIntersectRect( out Dst : TRect; const R1, R2 : TRect) : Boolean;
8599: Function IntersectRect1( out Dst : TFfloatRect; const FR1, FR2 : TFfloatRect) : Boolean;
8600: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean;
8601: Function UnionRect1( out Rect : TFfloatRect; const R1, R2 : TFfloatRect) : Boolean;
8602: Function GEEqualRect( const R1, R2 : TRect) : Boolean;
8603: Function EqualRect1( const R1, R2 : TFfloatRect) : Boolean;
8604: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer);
8605: Procedure InflateRect1( var FR : TFfloatRect; Dx, Dy : TFfloat);
8606: Procedure GOOffsetRect( var R : TRect; Dx, Dy : Integer);
8607: Procedure OffsetRect1( var FR : TFfloatRect; Dx, Dy : TFfloat);
8608: Function IsRectEmpty( const R : TRect) : Boolean;
8609: Function IsRectEmpty1( const FR : TFfloatRect) : Boolean;
8610: Function GPtInRect( const R : TRect; const P : TPoint) : Boolean;
8611: Function PtInRect1( const R : TFfloatRect; const P : TPoint) : Boolean;
8612: Function PtInRect2( const R : TRect; const P : TFfloatPoint) : Boolean;
8613: Function PtInRect3( const R : TFfloatRect; const P : TFfloatPoint) : Boolean;
8614: Function EqualRectSize( const R1, R2 : TRect) : Boolean;
8615: Function EqualRectSize1( const R1, R2 : TFfloatRect) : Boolean;
8616: Function MessageBeep( uType : UINT) : BOOL
8617: Function ShowCursor( bShow : BOOL) : Integer
8618: Function SetCursorPos( X, Y : Integer) : BOOL
8619: Function SetCursor( hCursor : HICON) : HCURSOR
8620: Function GetCursorPos( var lpPoint : TPoint) : BOOL
8621: //Function ClipCursor( lpRect : PRect) : BOOL
8622: Function GetClipCursor( var lpRect : TRect) : BOOL
8623: Function GetCursor : HCURSOR
8624: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer) : BOOL
8625: Function GetCaretBlinkTime : UINT
8626: Function SetCaretBlinkTime( uMSeconds : UINT) : BOOL
8627: Function DestroyCaret : BOOL
8628: Function HideCaret( hWnd : HWND) : BOOL
8629: Function ShowCaret( hWnd : HWND) : BOOL
8630: Function SetCaretPos( X, Y : Integer) : BOOL
8631: Function GetCaretPos( var lpPoint : TPoint) : BOOL
8632: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint) : BOOL
8633: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint) : BOOL
8634: Function MapWindowPoints(hWndFrom,hWndTo:HWND; var lpPoints, cPoints : UINT) : Integer
8635: Function WindowFromPoint( Point : TPoint) : HWND
8636: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint) : HWND
8637:
8638:
8639: procedure SIRegister_GR32_Math(CL: TPPSPascalCompiler);
8640: begin
8641: Function FixedFloor( A : TFfixed) : Integer

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8642: Function FixedCeil( A : TFixed ) : Integer
8643: Function FixedMul( A, B : TFixed ) : TFixed
8644: Function FixedDiv( A, B : TFixed ) : TFixed
8645: Function OneOver( Value : TFixed ) : TFixed
8646: Function FixedRound( A : TFixed ) : Integer
8647: Function FixedSqr( Value : TFixed ) : TFixed
8648: Function FixedSqrtLP( Value : TFixed ) : TFixed
8649: Function FixedSqrHP( Value : TFixed ) : TFixed
8650: Function FixedCombine( W, X, Y : TFixed ) : TFixed
8651: Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8652: Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single );
8653: Function GRHypot( const X, Y : TFloat ) : TFloat;
8654: Function Hypot1( const X, Y : Integer ) : Integer;
8655: Function FastSqrt( const Value : TFloat ) : TFloat
8656: Function FastSqrtBab1( const Value : TFloat ) : TFloat
8657: Function FastSqrtBab2( const Value : TFloat ) : TFloat
8658: Function FastInvSqrt( const Value : Single ) : Single;
8659: Function MulDiv( Multipliand, Multiplier, Divisor : Integer ) : Integer
8660: Function GRIsPowerOf2( Value : Integer ) : Boolean
8661: Function PrevPowerOf2( Value : Integer ) : Integer
8662: Function NextPowerOf2( Value : Integer ) : Integer
8663: Function Average( A, B : Integer ) : Integer
8664: Function GRSign( Value : Integer ) : Integer
8665: Function FloatMod( x, y : Double ) : Double
8666: end;
8667:
8668: procedure SIRegister_GR32_LowLevel(CL: TPSCompiler);
8669: begin
8670:   Function Clamp( const Value : Integer ) : Integer;
8671:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword );
8672:   Function StackAlloc( Size : Integer ) : Pointer;
8673:   Procedure StackFree( P : Pointer );
8674:   Procedure Swap( var A, B : Pointer );
8675:   Procedure Swap1( var A, B : Integer );
8676:   Procedure Swap2( var A, B : TFixed );
8677:   Procedure Swap3( var A, B : TColor32 );
8678:   Procedure TestSwap( var A, B : Integer );
8679:   Procedure TestSwap1( var A, B : TFixed );
8680:   Function TestClip( var A, B : Integer; const Size : Integer ) : Boolean;
8681:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer ) : Boolean;
8682:   Function GRConstrain( const Value, Lo, Hi : Integer ) : Integer;
8683:   Function Constrain1( const Value, Lo, Hi : Single ) : Single;
8684:   Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer ) : Integer
8685:   Function GRMin( const A, B, C : Integer ) : Integer;
8686:   Function GRMax( const A, B, C : Integer ) : Integer;
8687:   Function Clamp( Value, Max : Integer ) : Integer;
8688:   Function Clamp1( Value, Min, Max : Integer ) : Integer;
8689:   Function Wrap( Value, Max : Integer ) : Integer;
8690:   Function Wrap1( Value, Min, Max : Integer ) : Integer;
8691:   Function Wrap3( Value, Max : Single ) : Single;;
8692:   Function WrapPow2( Value, Max : Integer ) : Integer;
8693:   Function WrapPow21( Value, Min, Max : Integer ) : Integer;
8694:   Function Mirror( Value, Max : Integer ) : Integer;
8695:   Function Mirror1( Value, Min, Max : Integer ) : Integer;
8696:   Function MirrorPow2( Value, Max : Integer ) : Integer;
8697:   Function MirrorPow21( Value, Min, Max : Integer ) : Integer;
8698:   Function GetOptimalWrap( Max : Integer ) : TWrapProc;
8699:   Function GetOptimalWrap1( Min, Max : Integer ) : TWrapProcEx;
8700:   Function GetOptimalMirror( Max : Integer ) : TWrapProc;
8701:   Function GetOptimalMirror1( Min, Max : Integer ) : TWrapProcEx;
8702:   Function GetWrapProc( WrapMode : TWrapMode ) : TWrapProc;
8703:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer ) : TWrapProc;
8704:   Function GetWrapProcEx( WrapMode : TWrapMode ) : TWrapProcEx;
8705:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer ) : TWrapProcEx;
8706:   Function Div255( Value : Cardinal ) : Cardinal;
8707:   Function SAR_4( Value : Integer ) : Integer;
8708:   Function SAR_8( Value : Integer ) : Integer;
8709:   Function SAR_9( Value : Integer ) : Integer;
8710:   Function SAR_11( Value : Integer ) : Integer;
8711:   Function SAR_12( Value : Integer ) : Integer;
8712:   Function SAR_13( Value : Integer ) : Integer;
8713:   Function SAR_14( Value : Integer ) : Integer;
8714:   Function SAR_15( Value : Integer ) : Integer;
8715:   Function SAR_16( Value : Integer ) : Integer;
8716:   Function ColorSwap( WinColor : TColor ) : TColor32
8717: end;
8718:
8719: procedure SIRegister_GR32_Filters(CL: TPSCompiler);
8720: begin
8721:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )');
8722:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8723:   Procedure CopyComponents1(Dst:TCustomBitmap32;DstX,
DstY:Int;Src:TCustomBitmap32;SrcRect:TRect;Components:TColor32Comp;
8724:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32 );
8725:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean );
8726:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32 );
8727:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8728:   Procedure InvertRGB( Dst, Src : TCustomBitmap32 );
8729:   Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean );

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8730: Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32)
8731: Function CreateBitmask( Components : TColor32Components ) : TColor32
8732: Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
8733: Bitmask : TColor32; LogicalOperator : TLogicalOperator);
8733: Procedure
8734: ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8734: Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean)
8735: end;
8736:
8737:
8738: procedure SIRegister_JclNTFS(CL: TPSPPascalCompiler);
8739: begin
8740:   AddClassN(FindClass('TOBJECT'), 'EJclNtfsError
8741:   AddTypes('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )
8742:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8743:   Function NtfsGetCompression1( const FileName : string ) : TFileCompressionState;
8744:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean;
8745:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState );
8746:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState);
8747:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState);
8748:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState:Recursive:Boolean;
8749: //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloc
8750: //+tedRangeBuffer; MoreData : Boolean; end
8751:   Function NtfsSetSparse( const FileName : string ) : Boolean;
8752:   Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64 ) : Boolean;
8753:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean;
8754: //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Int64;var
8755: Ranges:TNtfsAllocRanges):Boolean;
8755: //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
8756: Index:Integer):TFileAllocatedRangeBuffer
8756:   Function NtfsSparseStreamsSupported( const Volume : string ) : Boolean;
8757:   Function NtfsGetSparse( const FileName : string ) : Boolean;
8758:   Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD ) : Boolean;
8759:   Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword ) : Boolean;
8760: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8761:   Function NtfsGetReparseTag( const Path : string; var Tag : DWORD ) : Boolean;
8762:   Function NtfsReparsePointsSupported( const Volume : string ) : Boolean;
8763:   Function NtfsFileHasReparsePoint( const Path : string ) : Boolean;
8764:   Function NtfsIsFolderMountPoint( const Path : string ) : Boolean;
8765:   Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char ) : Boolean;
8766:   Function NtfsMountVolume( const Volume : Char; const MountPoint : string ) : Boolean;
8767:   AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter );
8768:   Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8769:   Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8770:   Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8771:   Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8772:   Function NtfsRequestOpLock( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean;
8773:   Function NtfsCreateJunctionPoint( const Source, Destination : string ) : Boolean;
8774:   Function NtfsDeleteJunctionPoint( const Source : string ) : Boolean;
8775:   Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string ) : Boolean;
8776:   AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8777:   + 'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile );
8778:   AddTypeS('TStreamIds', 'set of TStreamId
8779:   AddTypeS('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8780:   + ': __Pointer; StreamIds : TStreamIds; end
8781:   AddTypeS('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8782:   + 'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8783:   Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8784:   Function NtfsFindNextStream( var Data : TFindStreamData ) : Boolean;
8785:   Function NtfsFindStreamClose( var Data : TFindStreamData ) : Boolean;
8786:   Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string ) : Boolean;
8787:   AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8788:   Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean;
8789:   Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
8790: List:TStrings):Bool;
8791:   Function NtfsDeleteHardLinks( const FileName : string ) : Boolean;
8792:   Function JclAppInstances : TJclAppInstances;
8793:   Function JclAppInstances1( const UniqueAppIdGuidStr : string ) : TJclAppInstances;
8794:   Procedure ReadMessageCheck( var Message: TMessage;const IgnoredOriginatorWnd: HWND ) : TJclAppInstDataKind;
8795:   Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer );
8796:   Procedure ReadMessageString( const Message : TMessage; var S : string );
8796:   Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings );
8797:
8798:
8799: (*-----*)
8800: procedure SIRegister_JclGraphics(CL: TPSPPascalCompiler);
8801: begin
8802:   FindClass('TOBJECT'), 'EJclGraphicsError
8803:   TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8804:   TDynPointArray', 'array of TPoint
8805:   TDynDynPointArrayArray', 'array of TDynPointArray
8806:   TPointF', 'record X : Single; Y : Single; end
8807:   TDynPointArrayF', 'array of TPointF
8808:   TDrawMode2', '( dmOpaque, dmBlend )
8809:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8810:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8811:   TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8812:   TMatrix3d', 'record array[0..2,0..2] of extended end
8813:   TDynDynPointArrayArrayF', 'array of TDynPointArrayF

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8814: TScanLine', 'array of Integer
8815: TScanLines', 'array of TScanLine
8816: TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8817: TGradientDirection', '( gdVertical, gdHorizontal )
8818: TPolyFillMode', '( fmAlternate, fmWinding )
8819: TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8820: TJclRegionBitmapMode', '( rmInclude, rmExclude )
8821: TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8822: SIRegister_TJclDesktopCanvas(CL);
8823: FindClass('TOBJECT'), 'TJclRegion
8824: SIRegister_TJclRegionInfo(CL);
8825: SIRegister_TJclRegion(CL);
8826: SIRegister_TJclThreadPersistent(CL);
8827: SIRegister_TJclCustomMap(CL);
8828: SIRegister_TJclBitmap32(CL);
8829: SIRegister_TJclByteMap(CL);
8830: SIRegister_TJclTransformation(CL);
8831: SIRegister_TJclLinearTransformation(CL);
8832: Procedure Stretch(NewWidth,
  NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8833: Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8834: Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8835: Function GetAntialiasedBitmap( const Bitmap : TBitmap ) : TBitmap
8836: Procedure BitmapToJpeg( const FileName : string)
8837: Procedure JpegToBitmap( const FileName : string)
8838: Function ExtractIconCount( const FileName : string) : Integer
8839: Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer ) : HICON
8840: Function IconToBitmapJ( Icon : HICON ) : HBITMAP
8841: Procedure
  BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8842: Procedure StretchTransfer(Dst:TJclBitmap32;
  DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8843: Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8844: Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect)
8845: Function FillGradient( DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection :
  TGradientDirection ) : Boolean;
8846: Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
  RegionBitmapMode:TJclRegionBitmapMode): HRGN
8847: Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND );
8848: Procedure ScreenShot1( bm : TBitmap );
8849: Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8850: Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8851: Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8852: Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8853: Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8854: Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8855: Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8856: Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8857: Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArrayF;Color:TColor32);
8858: Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32 )
8859: Procedure IntensityToAlpha( Dst, Src : TJclBitmap32 )
8860: Procedure Invert( Dst, Src : TJclBitmap32 )
8861: Procedure InvertRGB( Dst, Src : TJclBitmap32 )
8862: Procedure ColorToGrayscale( Dst, Src : TJclBitmap32 )
8863: Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8 )
8864: Procedure SetGamma( Gamma : Single )
8865: end;
8866:
8867: (*-----*)
8868: procedure SIRegister_JclSynch(CL: TPSPPascalCompiler);
8869: begin
8870: Function LockedAdd( var Target : Integer; Value : Integer ) : Integer
8871: Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer ) : Integer;
8872: Function LockedCompareExchange1( var Target : __Pointer; Exch, Comp : __Pointer ) : Pointer;
8873: Function LockedDec( var Target : Integer ) : Integer
8874: Function LockedExchange( var Target : Integer; Value : Integer ) : Integer
8875: Function LockedExchangeAdd( var Target : Integer; Value : Integer ) : Integer
8876: Function LockedExchangeDec( var Target : Integer ) : Integer
8877: Function LockedExchangeInc( var Target : Integer ) : Integer
8878: Function LockedExchangeSub( var Target : Integer; Value : Integer ) : Integer
8879: Function LockedInc( var Target : Integer ) : Integer
8880: Function LockedSub( var Target : Integer; Value : Integer ) : Integer
8881: TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8882: SIRegister_TJclDispatcherObject(CL);
8883: Function WaitForMultipleObjects(const Objects:array of
  TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8884: Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
  TimeOut : Cardinal):Cardinal
8885: SIRegister_TJclCriticalSection(CL);
8886: SIRegister_TJclCriticalSectionEx(CL);
8887: SIRegister_TJclEvent(CL);
8888: SIRegister_TJclWaitableTimer(CL);
8889: SIRegister_TJclSemaphore(CL);
8890: SIRegister_TJclMutex(CL);
8891: POptexSharedInfo', '^POptexSharedInfo // will not work
8892: TOptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8893: SIRegister_TJclOptex(CL);
8894: TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8895: TMrewThreadInfo', 'record ThreadId : Longword; RecursionCount: Integer; Reader : Boolean; end

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8896: TMrewThreadInfoArray', 'array of TMrewThreadInfo
8897: SIRegister_TJclMultiReadExclusiveWrite(CL);
8898: PMetSectSharedInfo', '^TMetSectSharedInfo // will not work
8899: TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '
8900: +'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8901: PMeteredSection', '^TMeteredSection // will not work
8902: TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8903: SIRegister_TJclMeteredSection(CL);
8904: TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8905: TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8906: TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8907: TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8908: Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTLCriticalSection ) : Boolean
8909: Function QueryEvent( Handle : THandle; var Info : TEventInfo ) : Boolean
8910: Function QueryMutex( Handle : THandle; var Info : TMutexInfo ) : Boolean
8911: Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts ) : Boolean
8912: Function QueryTimer( Handle : THandle; var Info : TTimerInfo ) : Boolean
8913: FindClass('TOBJECT'), 'EJclWin32HandleObjectError
8914: FindClass('TOBJECT'), 'EJclDispatcherObjectError
8915: FindClass('TOBJECT'), 'EJclCriticalSectionError
8916: FindClass('TOBJECT'), 'EJclEventError
8917: FindClass('TOBJECT'), 'EJclWaitableTimerError
8918: FindClass('TOBJECT'), 'EJclSemaphoreError
8919: FindClass('TOBJECT'), 'EJclMutexError
8920: FindClass('TOBJECT'), 'EJclMeteredSectionError
8921: end;
8922:
8923:
8924: //*****unit uPSI_mORMotReport;
8925: Procedure SetCurrentPrinterAsDefault
8926: Function CurrentPrinterName : string
8927: Function mCurrentPrinterPaperSize : string
8928: Procedure UseDefaultPrinter
8929:
8930: procedure SIRegisterTSTREAM(Cl: TPSPascalCompiler);
8931: begin
8932:   with FindClass('TOBJECT'), 'TStream') do begin
8933:     IsAbstract := True;
8934:     //RegisterMethod('Function Read( var Buffer, Count : Longint ) : Longint
8935:     // RegisterMethod('Function Write( const Buffer, Count : Longint ) : Longint
8936:     function Read(Buffer:String;Count:LongInt):LongInt
8937:     function Write(Buffer:String;Count:LongInt):LongInt
8938:     function ReadString(Buffer:String;Count:LongInt):LongInt      //FileStream
8939:     function WriteString(Buffer:String;Count:LongInt):LongInt
8940:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
8941:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
8942:     function ReadByteArray(Buffer:TByteToArray;Count:LongInt):LongInt';
8943:     function WriteByteArray(Buffer:TByteToArray;Count:LongInt):LongInt';
8944:
8945:     procedure ReadAB(Buffer: TByteToArray;Count:LongInt)
8946:     procedure WriteAB(Buffer: TByteToArray;Count:LongInt)
8947:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
8948:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
8949:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
8950:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
8951:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
8952:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
8953:
8954:     function Seek(Offset:LongInt;Origin:Word):LongInt
8955:     procedure ReadBuffer(Buffer:String;Count:LongInt)
8956:     procedure WriteBuffer(Buffer:String;Count:LongInt)
8957:     procedure ReadBufferInt(Buffer:Integer;Count:LongInt)';
8958:     procedure WriteBufferInt(Buffer:Integer;Count:LongInt)';
8959:     procedure ReadBufferFloat(Buffer:Double;Count:LongInt)';
8960:     procedure WriteBufferFloat(Buffer:Double;Count:LongInt)';
8961:
8962:     procedure ReadBufferAB(Buffer: TByteToArray;Count:LongInt)
8963:     procedure WriteBufferAB(Buffer: TByteToArray;Count:LongInt)
8964:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
8965:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
8966:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8967:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8968:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8969:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8970:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8971:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8972:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8973:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8974:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8975:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8976:
8977:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
8978:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
8979:     procedure ReadBufferO(Buffer: TObject;Count:LongInt)';
8980:     procedure WriteBufferO(Buffer: TObject;Count:LongInt)';
8981: //READBUFFERAC
8982:   function InstanceSize: Longint
8983:     Procedure FixupResourceHeader( FixupInfo : Integer )
8984:     Procedure ReadResHeader

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8985: { $IFDEF DELPHI4UP }
8986: function CopyFrom(Source:TStream;Count:Int64):LongInt
8987: { $ELSE }
8988: function CopyFrom(Source:TStream;Count:Integer):LongInt
8989: { $ENDIF }
8990: RegisterProperty('Position', 'LongInt', iptrw);
8992: RegisterProperty('Size', 'LongInt', iptrw);
8993: end;
8994: end;
8995:
8996:
8997: { ****
8998: Unit DMATH - Interface for DMATH.DLL
8999: **** }
9000: // see more docs/dmath_manual.pdf
9001:
9002: Function InitEval : Integer
9003: Procedure SetVariable( VarName : Char; Value : Float)
9004: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
9005: Function Eval( ExpressionString : String) : Float
9006:
9007: unit dmath; //types are in built, others are external in DLL
9008: interface
9009: { $IFDEF DELPHI }
9010: uses
9011:   StdCtrls, Graphics;
9012: { $ENDIF }
9013: { -----
9014:   Types and constants
9015: ----- }
9016: {$i types.inc}
9017: { -----
9018:   Error handling
9019: ----- }
9020: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9021: { Sets the error code }
9022: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9023: { Sets error code and default function value }
9024: function MathErr : Integer; external 'dmath';
9025: { Returns the error code }
9026: { -----
9027:   Dynamic arrays
9028: ----- }
9029: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9030: { Sets the auto-initialization of arrays }
9031: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9032: { Creates floating point vector V[0..Ub] }
9033: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9034: { Creates integer vector V[0..Ub] }
9035: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9036: { Creates complex vector V[0..Ub] }
9037: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9038: { Creates boolean vector V[0..Ub] }
9039: procedure DimStrVector(var V : TStringVector; Ub : Integer); external 'dmath';
9040: { Creates string vector V[0..Ub] }
9041: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9042: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9043: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9044: { Creates integer matrix A[0..Ub1, 0..Ub2] }
9045: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9046: { Creates complex matrix A[0..Ub1, 0..Ub2] }
9047: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9048: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9049: procedure DimStrMatrix(var A : TStringMatrix; Ub1, Ub2 : Integer); external 'dmath';
9050: { Creates string matrix A[0..Ub1, 0..Ub2] }
9051: { -----
9052:   Minimum, maximum, sign and exchange
9053: ----- }
9054: function FMin(X, Y : Float) : Float; external 'dmath';
9055: { Minimum of 2 reals }
9056: function FMax(X, Y : Float) : Float; external 'dmath';
9057: { Maximum of 2 reals }
9058: function IMin(X, Y : Integer) : Integer; external 'dmath';
9059: { Minimum of 2 integers }
9060: function IMax(X, Y : Integer) : Integer; external 'dmath';
9061: { Maximum of 2 integers }
9062: function Sgn(X : Float) : Integer; external 'dmath';
9063: { Sign (returns 1 if X = 0) }
9064: function Sgn0(X : Float) : Integer; external 'dmath';
9065: { Sign (returns 0 if X = 0) }
9066: function DSgn(A, B : Float) : Float; external 'dmath';
9067: { Sgn(B) * |A| }
9068: procedure FSwap(var X, Y : Float); external 'dmath';
9069: { Exchange 2 reals }
9070: procedure ISwap(var X, Y : Integer); external 'dmath';
9071: { Exchange 2 integers }
9072: { -----
9073:   Rounding functions

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9074: ----- }
9075: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9076: { Rounds X to N decimal places }
9077: function Ceil(X : Float) : Integer; external 'dmath';
9078: { Ceiling function }
9079: function Floor(X : Float) : Integer; external 'dmath';
9080: { Floor function }
9081: { -----
9082:   Logarithms, exponentials and power
9083: ----- }
9084: function Expo(X : Float) : Float; external 'dmath';
9085: { Exponential }
9086: function Exp2(X : Float) : Float; external 'dmath';
9087: { 2^X }
9088: function Exp10(X : Float) : Float; external 'dmath';
9089: { 10^X }
9090: function Log(X : Float) : Float; external 'dmath';
9091: { Natural log }
9092: function Log2(X : Float) : Float; external 'dmath';
9093: { Log, base 2 }
9094: function Log10(X : Float) : Float; external 'dmath';
9095: { Decimal log }
9096: function LogA(X, A : Float) : Float; external 'dmath';
9097: { Log, base A }
9098: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9099: { X^N }
9100: function Power(X, Y : Float) : Float; external 'dmath';
9101: { X^Y, X >= 0 }
9102: { -----
9103:   Trigonometric functions
9104: ----- }
9105: function Pythag(X, Y : Float) : Float; external 'dmath';
9106: { Sqrt(X^2 + Y^2) }
9107: function FixAngle(Theta : Float) : Float; external 'dmath';
9108: { Set Theta in -Pi..Pi }
9109: function Tan(X : Float) : Float; external 'dmath';
9110: { Tangent }
9111: function ArcSin(X : Float) : Float; external 'dmath';
9112: { Arc sinus }
9113: function ArcCos(X : Float) : Float; external 'dmath';
9114: { Arc cosinus }
9115: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9116: { Angle (Ox, OM) with M(X,Y) }
9117: { -----
9118:   Hyperbolic functions
9119: ----- }
9120: function Sinh(X : Float) : Float; external 'dmath';
9121: { Hyperbolic sine }
9122: function Cosh(X : Float) : Float; external 'dmath';
9123: { Hyperbolic cosine }
9124: function Tanh(X : Float) : Float; external 'dmath';
9125: { Hyperbolic tangent }
9126: function ArcSinh(X : Float) : Float; external 'dmath';
9127: { Inverse hyperbolic sine }
9128: function ArcCosh(X : Float) : Float; external 'dmath';
9129: { Inverse hyperbolic cosine }
9130: function ArcTanh(X : Float) : Float; external 'dmath';
9131: { Inverse hyperbolic tangent }
9132: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9133: { Sinh & Cosh }
9134: { -----
9135:   Gamma function and related functions
9136: ----- }
9137: function Fact(N : Integer) : Float; external 'dmath';
9138: { Factorial }
9139: function SgnGamma(X : Float) : Integer; external 'dmath';
9140: { Sign of Gamma function }
9141: function Gamma(X : Float) : Float; external 'dmath';
9142: { Gamma function }
9143: function LnGamma(X : Float) : Float; external 'dmath';
9144: { Logarithm of Gamma function }
9145: function Stirling(X : Float) : Float; external 'dmath';
9146: { Stirling's formula for the Gamma function }
9147: function StirLog(X : Float) : Float; external 'dmath';
9148: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9149: function DiGamma(X : Float) : Float; external 'dmath';
9150: { Digamma function }
9151: function TriGamma(X : Float) : Float; external 'dmath';
9152: { Trigamma function }
9153: function IGamma(A, X : Float) : Float; external 'dmath';
9154: { Incomplete Gamma function }
9155: function JGamma(A, X : Float) : Float; external 'dmath';
9156: { Complement of incomplete Gamma function }
9157: function InvGamma(A, P : Float) : Float; external 'dmath';
9158: { Inverse of incomplete Gamma function }
9159: function Erf(X : Float) : Float; external 'dmath';
9160: { Error function }
9161: function Erfc(X : Float) : Float; external 'dmath';
9162: { Complement of error function }

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9163: { -----
9164:   Beta function and related functions
9165: -----
9166:   function Beta(X, Y : Float) : Float; external 'dmath';
9167:   { Beta function }
9168:   function IBeta(A, B, X : Float) : Float; external 'dmath';
9169:   { Incomplete Beta function }
9170:   function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9171:   { Inverse of incomplete Beta function }
9172:   -----
9173:   Lambert's function
9174:   -----
9175:   function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9176:   -----
9177:   Binomial distribution
9178:   -----
9179:   function Binomial(N, K : Integer) : Float; external 'dmath';
9180:   { Binomial coefficient C(N,K) }
9181:   function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9182:   { Probability of binomial distribution }
9183:   function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9184:   { Cumulative probability for binomial distrib. }
9185:   -----
9186:   Poisson distribution
9187:   -----
9188:   function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9189:   { Probability of Poisson distribution }
9190:   function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9191:   { Cumulative probability for Poisson distrib. }
9192:   -----
9193:   Exponential distribution
9194:   -----
9195:   function DExpo(A, X : Float) : Float; external 'dmath';
9196:   { Density of exponential distribution with parameter A }
9197:   function FExpo(A, X : Float) : Float; external 'dmath';
9198:   { Cumulative probability function for exponential dist. with parameter A }
9199:   -----
9200:   Standard normal distribution
9201:   -----
9202:   function DNorm(X : Float) : Float; external 'dmath';
9203:   { Density of standard normal distribution }
9204:   function FNorm(X : Float) : Float; external 'dmath';
9205:   { Cumulative probability for standard normal distrib. }
9206:   function PNorm(X : Float) : Float; external 'dmath';
9207:   { Prob(|U| > X) for standard normal distrib. }
9208:   function InvNorm(P : Float) : Float; external 'dmath';
9209:   { Inverse of standard normal distribution }
9210:   -----
9211:   Student's distribution
9212:   -----
9213:   function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9214:   { Density of Student distribution with Nu d.o.f. }
9215:   function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9216:   { Cumulative probability for Student distrib. with Nu d.o.f. }
9217:   function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9218:   { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9219:   function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9220:   { Inverse of Student's t-distribution function }
9221:   -----
9222:   Khi-2 distribution
9223:   -----
9224:   function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9225:   { Density of Khi-2 distribution with Nu d.o.f. }
9226:   function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9227:   { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9228:   function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9229:   { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9230:   function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9231:   { Inverse of Khi-2 distribution function }
9232:   -----
9233:   Fisher-Snedecor distribution
9234:   -----
9235:   function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9236:   { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9237:   function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9238:   { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9239:   function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9240:   { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9241:   function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9242:   { Inverse of Snedecor's F-distribution function }
9243:   -----
9244:   Beta distribution
9245:   -----
9246:   function DBeta(A, B, X : Float) : Float; external 'dmath';
9247:   { Density of Beta distribution with parameters A and B }
9248:   function FBeta(A, B, X : Float) : Float; external 'dmath';
9249:   { Cumulative probability for Beta distrib. with param. A and B }
9250:   -----
9251:   Gamma distribution

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9252: ----- }
9253: function DGamma(A, B, X : Float) : Float; external 'dmath';
9254: { Density of Gamma distribution with parameters A and B }
9255: function FGamma(A, B, X : Float) : Float; external 'dmath';
9256: { Cumulative probability for Gamma distrib. with param. A and B }
9257: { -----
9258:   Expression evaluation
9259: ----- }
9260: function InitEval : Integer; external 'dmath';
9261: { Initializes built-in functions and returns their number }
9262: function Eval(ExpressionString : String) : Float; external 'dmath';
9263: { Evaluates an expression at run-time }
9264: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9265: { Assigns a value to a variable }
9266: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9267: { Adds a function to the parser }
9268: { -----
9269:   Matrices and linear equations
9270: ----- }
9271: procedure GaussJordan(A          : TMatrix;
9272:                         Lb, Ubl, Ub2 : Integer;
9273:                         var Det      : Float); external 'dmath';
9274: { Transforms a matrix according to the Gauss-Jordan method }
9275: procedure LinEq(A          : TMatrix;
9276:                     B          : TVector;
9277:                     Lb, Ub    : Integer;
9278:                     var Det    : Float); external 'dmath';
9279: { Solves a linear system according to the Gauss-Jordan method }
9280: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9281: { Cholesky factorization of a positive definite symmetric matrix }
9282: procedure LU_Decom(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9283: { LU decomposition }
9284: procedure LU_Solve(A       : TMatrix;
9285:                       B       : TVector;
9286:                       Lb, Ub : Integer;
9287:                       X       : TVector); external 'dmath';
9288: { Solution of linear system from LU decomposition }
9289: procedure QR_Decom(A       : TMatrix;
9290:                       Lb, Ubl, Ub2 : Integer;
9291:                       R       : TMatrix); external 'dmath';
9292: { QR decomposition }
9293: procedure QR_Solve(Q, R     : TMatrix;
9294:                       B       : TVector;
9295:                       Lb, Ubl, Ub2 : Integer;
9296:                       X       : TVector); external 'dmath';
9297: { Solution of linear system from QR decomposition }
9298: procedure SV_Decom(A       : TMatrix;
9299:                       Lb, Ubl, Ub2 : Integer;
9300:                       S       : TVector;
9301:                       V       : TMatrix); external 'dmath';
9302: { Singular value decomposition }
9303: procedure SV_SetZero(S    : TVector;
9304:                         Lb, Ub : Integer;
9305:                         Tol    : Float); external 'dmath';
9306: { Set lowest singular values to zero }
9307: procedure SV_Solve(U     : TMatrix;
9308:                       S       : TVector;
9309:                       V       : TMatrix;
9310:                       B       : TVector;
9311:                       Lb, Ubl, Ub2 : Integer;
9312:                       X       : TVector); external 'dmath';
9313: { Solution of linear system from SVD }
9314: procedure SV_Approx(U    : TMatrix;
9315:                       S       : TVector;
9316:                       V       : TMatrix;
9317:                       Lb, Ubl, Ub2 : Integer;
9318:                       A       : TMatrix); external 'dmath';
9319: { Matrix approximation from SVD }
9320: procedure EigenVals(A   : TMatrix;
9321:                         Lb, Ub : Integer;
9322:                         Lambda : TCompVector); external 'dmath';
9323: { Eigenvalues of a general square matrix }
9324: procedure EigenVect(A   : TMatrix;
9325:                         Lb, Ub : Integer;
9326:                         Lambda : TCompVector;
9327:                         V       : TMatrix); external 'dmath';
9328: { Eigenvalues and eigenvectors of a general square matrix }
9329: procedure EigenSym(A   : TMatrix;
9330:                         Lb, Ub : Integer;
9331:                         Lambda : TVector;
9332:                         V       : TMatrix); external 'dmath';
9333: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9334: procedure Jacobi(A   : TMatrix;
9335:                         Lb, Ub, MaxIter : Integer;
9336:                         Tol    : Float;
9337:                         Lambda : TVector;
9338:                         V       : TMatrix); external 'dmath';
9339: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9340: { -----

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9341: Optimization
9342: -----
9343: procedure MinBrack(Func : TFunc;
9344:                      var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9345: { Brackets a minimum of a function }
9346: procedure GoldSearch(Func : TFunc;
9347:                         A, B : Float;
9348:                         MaxIter : Integer;
9349:                         Tol : Float;
9350:                         var Xmin, Ymin : Float); external 'dmath';
9351: { Minimization of a function of one variable (golden search) }
9352: procedure LinMin(Func : TFuncNVar;
9353:                      X, DeltaX : TVector;
9354:                      Lb, Ub : Integer;
9355:                      var R : Float;
9356:                      MaxIter : Integer;
9357:                      Tol : Float;
9358:                      var F_min : Float); external 'dmath';
9359: { Minimization of a function of several variables along a line }
9360: procedure Newton(Func : TFuncNVar;
9361:                      HessGrad : THessGrad;
9362:                      X : TVector;
9363:                      Lb, Ub : Integer;
9364:                      MaxIter : Integer;
9365:                      Tol : Float;
9366:                      var F_min : Float;
9367:                      G : TVector;
9368:                      H_inv : TMatrix;
9369:                      var Det : Float); external 'dmath';
9370: { Minimization of a function of several variables (Newton's method) }
9371: procedure SaveNewton(FileName : string); external 'dmath';
9372: { Save Newton iterations in a file }
9373: procedure Marquardt(Func : TFuncNVar;
9374:                      HessGrad : THessGrad;
9375:                      X : TVector;
9376:                      Lb, Ub : Integer;
9377:                      MaxIter : Integer;
9378:                      Tol : Float;
9379:                      var F_min : Float;
9380:                      G : TVector;
9381:                      H_inv : TMatrix;
9382:                      var Det : Float); external 'dmath';
9383: { Minimization of a function of several variables (Marquardt's method) }
9384: procedure SaveMarquardt(FileName : string); external 'dmath';
9385: { Save Marquardt iterations in a file }
9386: procedure BFGS(Func : TFuncNVar;
9387:                      Gradient : TGradient;
9388:                      X : TVector;
9389:                      Lb, Ub : Integer;
9390:                      MaxIter : Integer;
9391:                      Tol : Float;
9392:                      var F_min : Float;
9393:                      G : TVector;
9394:                      H_inv : TMatrix); external 'dmath';
9395: { Minimization of a function of several variables (BFGS method) }
9396: procedure SaveBFGS(FileName : string); external 'dmath';
9397: { Save BFGS iterations in a file }
9398: procedure Simplex(Func : TFuncNVar;
9399:                      X : TVector;
9400:                      Lb, Ub : Integer;
9401:                      MaxIter : Integer;
9402:                      Tol : Float;
9403:                      var F_min : Float); external 'dmath';
9404: { Minimization of a function of several variables (Simplex) }
9405: procedure SaveSimplex(FileName : string); external 'dmath';
9406: { Save Simplex iterations in a file }
9407: { -----
9408: Nonlinear equations
9409: -----
9410: procedure RootBrack(Func : TFunc;
9411:                      var X, Y, FX, FY : Float); external 'dmath';
9412: { Brackets a root of function Func between X and Y }
9413: procedure Bisect(Func : TFunc;
9414:                      var X, Y : Float;
9415:                      MaxIter : Integer;
9416:                      Tol : Float;
9417:                      var F : Float); external 'dmath';
9418: { Bisection method }
9419: procedure Secant(Func : TFunc;
9420:                      var X, Y : Float;
9421:                      MaxIter : Integer;
9422:                      Tol : Float;
9423:                      var F : Float); external 'dmath';
9424: { Secant method }
9425: procedure NewtEq(Func, Deriv : TFunc;
9426:                      var X : Float;
9427:                      MaxIter : Integer;
9428:                      Tol : Float;
9429:                      var F : Float); external 'dmath';

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9430: { Newton-Raphson method for a single nonlinear equation }
9431: procedure NewtEqs(Equations : TEquations;
9432:                      Jacobian : TJacobian;
9433:                      X, F      : TVector;
9434:                      Lb, Ub    : Integer;
9435:                      MaxIter   : Integer;
9436:                      Tol       : Float); external 'dmath';
9437: { Newton-Raphson method for a system of nonlinear equations }
9438: procedure Broyden(Equations : TEquations;
9439:                      X, F      : TVector;
9440:                      Lb, Ub    : Integer;
9441:                      MaxIter   : Integer;
9442:                      Tol       : Float); external 'dmath';
9443: { Broyden's method for a system of nonlinear equations }
9444: { -----
9445: Polynomials and rational fractions
9446: ----- }
9447: function Poly(X      : Float;
9448:                  Coef : TVector;
9449:                  Deg  : Integer) : Float; external 'dmath';
9450: { Evaluates a polynomial }
9451: function RFrac(X      : Float;
9452:                  Coef  : TVector;
9453:                  Deg1, Deg2 : Integer) : Float; external 'dmath';
9454: { Evaluates a rational fraction }
9455: function RootPol1(A, B : Float;
9456:                      var X : Float) : Integer; external 'dmath';
9457: { Solves the linear equation A + B * X = 0 }
9458: function RootPol2(Coef : TVector;
9459:                      Z    : TCompVector) : Integer; external 'dmath';
9460: { Solves a quadratic equation }
9461: function RootPol3(Coef : TVector;
9462:                      Z    : TCompVector) : Integer; external 'dmath';
9463: { Solves a cubic equation }
9464: function RootPol4(Coef : TVector;
9465:                      Z    : TCompVector) : Integer; external 'dmath';
9466: { Solves a quartic equation }
9467: function RootPol(Coef : TVector;
9468:                      Deg  : Integer;
9469:                      Z    : TCompVector) : Integer; external 'dmath';
9470: { Solves a polynomial equation }
9471: function SetRealRoots(Deg : Integer;
9472:                          Z    : TCompVector;
9473:                          Tol : Float) : Integer; external 'dmath';
9474: { Set the imaginary part of a root to zero }
9475: procedure SortRoots(Deg : Integer;
9476:                        Z    : TCompVector); external 'dmath';
9477: { Sorts the roots of a polynomial }
9478: { -----
9479: Numerical integration and differential equations
9480: ----- }
9481: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9482: { Integration by trapezoidal rule }
9483: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9484: { Integral from A to B }
9485: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9486: { Integral from 0 to B }
9487: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9488: { Convolution product at time T }
9489: procedure ConvTrap(Func1, Func2:TFunc; T,Y:TVector; N:Integer);external 'dmath';
9490: { Convolution by trapezoidal rule }
9491: procedure RKF45(F          : TDiffEqs;
9492:                      Neqn     : Integer;
9493:                      Y, Yp    : TVector;
9494:                      var T    : Float;
9495:                      Tout, RelErr, AbsErr : Float;
9496:                      var Flag  : Integer); external 'dmath';
9497: { Integration of a system of differential equations }
9498: { -----
9499: Fast Fourier Transform
9500: ----- }
9501: procedure FFT(NumSamples      : Integer;
9502:                   InArray, OutArray : TCompVector); external 'dmath';
9503: { Fast Fourier Transform }
9504: procedure IFFT(NumSamples    : Integer;
9505:                   InArray, OutArray : TCompVector); external 'dmath';
9506: { Inverse Fast Fourier Transform }
9507: procedure FFT_Integer(NumSamples : Integer;
9508:                           RealIn, ImagIn : TIntVector;
9509:                           OutArray     : TCompVector); external 'dmath';
9510: { Fast Fourier Transform for integer data }
9511: procedure FFT_Integer_Cleanup; external 'dmath';
9512: { Clear memory after a call to FFT_Integer }
9513: procedure CalcFrequency(NumSamples,
9514:                           FrequencyIndex : Integer;
9515:                           InArray        : TCompVector;
9516:                           var FFT        : Complex); external 'dmath';
9517: { Direct computation of Fourier transform }
9518: { ----- }

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9519: Random numbers
9520: -----
9521: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9522: { Select generator }
9523: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9524: { Initialize generator }
9525: function IRanGen : RNG_IntType; external 'dmath';
9526: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9527: function IRanGen31 : RNG_IntType; external 'dmath';
9528: { 31-bit random integer in [0 .. 2^31 - 1] }
9529: function RanGen1 : Float; external 'dmath';
9530: { 32-bit random real in [0,1] }
9531: function RanGen2 : Float; external 'dmath';
9532: { 32-bit random real in [0,1) }
9533: function RanGen3 : Float; external 'dmath';
9534: { 32-bit random real in (0,1) }
9535: function RanGen53 : Float; external 'dmath';
9536: { 53-bit random real in [0,1) }
9537: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9538: { Initializes the 'Multiply with carry' random number generator }
9539: function IRanMWC : RNG_IntType; external 'dmath';
9540: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9541: procedure InitMT(Seed : RNG_IntType); external 'dmath';
9542: { Initializes Mersenne Twister generator with a seed }
9543: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9544:                           KeyLength : Word); external 'dmath';
9545: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9546: function IRanMT : RNG_IntType; external 'dmath';
9547: { Random integer from MT generator }
9548: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9549: { Initializes the UVAG generator with a string }
9550: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9551: { Initializes the UVAG generator with an integer }
9552: function IRanUVAG : RNG_IntType; external 'dmath';
9553: { Random integer from UVAG generator }
9554: function RanGaussStd : Float; external 'dmath';
9555: { Random number from standard normal distribution }
9556: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9557: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9558: procedure RanMult(M : TVector; L : TMatrix;
9559:                      Lb, Ub : Integer;
9560:                      X : TVector); external 'dmath';
9561: { Random vector from multinormal distribution (correlated) }
9562: procedure RanMultIndep(M, S : TVector;
9563:                          Lb, Ub : Integer;
9564:                          X : TVector); external 'dmath';
9565: { Random vector from multinormal distribution (uncorrelated) }
9566: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9567: { Initializes Metropolis-Hastings parameters }
9568: procedure GetMHParams(var NCycles, MaxSim, SavedSim:Integer); external 'dmath';
9569: { Returns Metropolis-Hastings parameters }
9570: procedure Hastings(Func : TFuncNVar;
9571:                       T : Float;
9572:                       X : TVector;
9573:                       V : TMatrix;
9574:                       Lb, Ub : Integer;
9575:                       Xmat : TMatrix;
9576:                       X_min : TVector;
9577:                       var F_min : Float); external 'dmath';
9578: { Simulation of a probability density function by Metropolis-Hastings }
9579: procedure InitSAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9580: { Initializes Simulated Annealing parameters }
9581: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9582: { Initializes log file }
9583: procedure SimAnn(Func : TFuncNVar;
9584:                      X, Xmin, Xmax : TVector;
9585:                      Lb, Ub : Integer;
9586:                      var F_min : Float); external 'dmath';
9587: { Minimization of a function of several var. by simulated annealing }
9588: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9589: { Initializes Genetic Algorithm parameters }
9590: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9591: { Initializes log file }
9592: procedure GenAlg(Func : TFuncNVar;
9593:                      X, Xmin, Xmax : TVector;
9594:                      Lb, Ub : Integer;
9595:                      var F_min : Float); external 'dmath';
9596: { Minimization of a function of several var. by genetic algorithm }
9597: { -----
9598: Statistics
9599: ----- }
9600: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9601: { Mean of sample X }
9602: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9603: { Minimum of sample X }
9604: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9605: { Maximum of sample X }
9606: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9607: { Median of sample X }

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9608: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9609: { Standard deviation estimated from sample X }
9610: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9611: { Standard deviation of population }
9612: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9613: { Correlation coefficient }
9614: function Skewness(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9615: { Skewness of sample X }
9616: function Kurtosis(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9617: { Kurtosis of sample X }
9618: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9619: { Quick sort (ascending order) }
9620: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9621: { Quick sort (descending order) }
9622: procedure Interval(X1, X2 : Float;
9623:                      MinDiv, MaxDiv : Integer;
9624:                      var Min, Max, Step : Float); external 'dmath';
9625: { Determines an interval for a set of values }
9626: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9627:                       var XMin, XMax, XStep : Float); external 'dmath';
9628: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9629: procedure StudIndep(N1, N2 : Integer;
9630:                      M1, M2, S1, S2 : Float;
9631:                      var T : Float;
9632:                      var DoF : Integer); external 'dmath';
9633: { Student t-test for independent samples }
9634: procedure StudPaired(X, Y : TVector;
9635:                        Lb, Ub : Integer;
9636:                        var T : Float;
9637:                        var DoF : Integer); external 'dmath';
9638: { Student t-test for paired samples }
9639: procedure AnOVal(Ns : Integer;
9640:                      N : TIntVector;
9641:                      M, S : TVector;
9642:                      var V_f, V_r, F : Float;
9643:                      var DoF_f, DoF_r : Integer); external 'dmath';
9644: { One-way analysis of variance }
9645: procedure AnOva2(NA, NB, Nobs : Integer;
9646:                      M, S : TMatrix;
9647:                      V, F : TVector;
9648:                      DoF : TIntVector); external 'dmath';
9649: { Two-way analysis of variance }
9650: procedure Snedecor(N1, N2 : Integer;
9651:                      S1, S2 : Float;
9652:                      var F : Float;
9653:                      var DoF1, DoF2 : Integer); external 'dmath';
9654: { Snedecor's F-test (comparison of two variances) }
9655: procedure Bartlett(Ns : Integer;
9656:                      N : TIntVector;
9657:                      S : TVector;
9658:                      var Khi2 : Float;
9659:                      var DoF : Integer); external 'dmath';
9660: { Bartlett's test (comparison of several variances) }
9661: procedure Mann_Whitney(N1, N2 : Integer;
9662:                          X1, X2 : TVector;
9663:                          var U, Eps : Float); external 'dmath';
9664: { Mann-Whitney test }
9665: procedure Wilcoxon(X, Y : TVector;
9666:                        Lb, Ub : Integer;
9667:                        var Ndiff : Integer;
9668:                        var T, Eps : Float); external 'dmath';
9669: { Wilcoxon test }
9670: procedure Kruskal_Wallis(Ns : Integer;
9671:                           N : TIntVector;
9672:                           X : TMatrix;
9673:                           var H : Float;
9674:                           var DoF : Integer); external 'dmath';
9675: { Kruskal-Wallis test }
9676: procedure Khi2_Conform(N_cls : Integer;
9677:                           N_estim : Integer;
9678:                           Obs : TIntVector;
9679:                           Calc : TVector;
9680:                           var Khi2 : Float;
9681:                           var DoF : Integer); external 'dmath';
9682: { Khi-2 test for conformity }
9683: procedure Khi2_Indep(N_lin : Integer;
9684:                           N_col : Integer;
9685:                           Obs : TIntMatrix;
9686:                           var Khi2 : Float;
9687:                           var DoF : Integer); external 'dmath';
9688: { Khi-2 test for independence }
9689: procedure Woolf_Conform(N_cls : Integer;
9690:                           N_estim : Integer;
9691:                           Obs : TIntVector;
9692:                           Calc : TVector;
9693:                           var G : Float;
9694:                           var DoF : Integer); external 'dmath';
9695: { Woolf's test for conformity }
9696: procedure Woolf_Indep(N_lin : Integer;

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9697:           N_col   : Integer;
9698:           Obs     : TIntMatrix;
9699:           var G    : Float;
9700:           var DoF  : Integer); external 'dmath';
9701: { Woolf's test for independence }
9702: procedure DimStatClassVector(var C : TStatClassVector;
9703:                               Ub    : Integer); external 'dmath';
9704: { Allocates an array of statistical classes: C[0..Ub] }
9705: procedure Distrib(X      : TVector;
9706:                     Lb, Ub : Integer;
9707:                     A, B, H : Float;
9708:                     C      : TStatClassVector); external 'dmath';
9709: { Distributes an array X[Lb..Ub] into statistical classes }
9710: { -----
9711:   Linear / polynomial regression
9712: ----- }
9713: procedure LinFit(X, Y : TVector;
9714:                      Lb, Ub : Integer;
9715:                      B      : TVector;
9716:                      V      : TMatrix); external 'dmath';
9717: { Linear regression : Y = B(0) + B(1) * X }
9718: procedure WLinFit(X, Y, S : TVector;
9719:                      Lb, Ub : Integer;
9720:                      B      : TVector;
9721:                      V      : TMatrix); external 'dmath';
9722: { Weighted linear regression : Y = B(0) + B(1) * X }
9723: procedure SVDFit(X, Y : TVector;
9724:                      Lb, Ub : Integer;
9725:                      SVDTol : Float;
9726:                      B      : TVector;
9727:                      V      : TMatrix); external 'dmath';
9728: { Unweighted linear regression by singular value decomposition }
9729: procedure WSVDFit(X, Y, S : TVector;
9730:                      Lb, Ub : Integer;
9731:                      SVDTol : Float;
9732:                      B      : TVector;
9733:                      V      : TMatrix); external 'dmath';
9734: { Weighted linear regression by singular value decomposition }
9735: procedure MulFit(X      : TMatrix;
9736:                      Y      : TVector;
9737:                      Lb, Ub, Nvar : Integer;
9738:                      ConsTerm : Boolean;
9739:                      B      : TVector;
9740:                      V      : TMatrix); external 'dmath';
9741: { Multiple linear regression by Gauss-Jordan method }
9742: procedure WMulFit(X      : TMatrix;
9743:                      Y, S   : TVector;
9744:                      Lb, Ub, Nvar : Integer;
9745:                      ConsTerm : Boolean;
9746:                      B      : TVector;
9747:                      V      : TMatrix); external 'dmath';
9748: { Weighted multiple linear regression by Gauss-Jordan method }
9749: procedure SVDFit(X      : TMatrix;
9750:                      Y      : TVector;
9751:                      Lb, Ub, Nvar : Integer;
9752:                      ConsTerm : Boolean;
9753:                      SVDTol : Float;
9754:                      B      : TVector;
9755:                      V      : TMatrix); external 'dmath';
9756: { Multiple linear regression by singular value decomposition }
9757: procedure WSVDFit(X      : TMatrix;
9758:                      Y, S   : TVector;
9759:                      Lb, Ub, Nvar : Integer;
9760:                      ConsTerm : Boolean;
9761:                      SVDTol : Float;
9762:                      B      : TVector;
9763:                      V      : TMatrix); external 'dmath';
9764: { Weighted multiple linear regression by singular value decomposition }
9765: procedure PolFit(X, Y : TVector;
9766:                      Lb, Ub, Deg : Integer;
9767:                      B      : TVector;
9768:                      V      : TMatrix); external 'dmath';
9769: { Polynomial regression by Gauss-Jordan method }
9770: procedure WPolFit(X, Y, S : TVector;
9771:                      Lb, Ub, Deg : Integer;
9772:                      B      : TVector;
9773:                      V      : TMatrix); external 'dmath';
9774: { Weighted polynomial regression by Gauss-Jordan method }
9775: procedure SVDPolFit(X, Y : TVector;
9776:                      Lb, Ub, Deg : Integer;
9777:                      SVDTol : Float;
9778:                      B      : TVector;
9779:                      V      : TMatrix); external 'dmath';
9780: { Unweighted polynomial regression by singular value decomposition }
9781: procedure WSVDPolFit(X, Y, S : TVector;
9782:                      Lb, Ub, Deg : Integer;
9783:                      SVDTol : Float;
9784:                      B      : TVector;
9785:                      V      : TMatrix); external 'dmath';

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9786: { Weighted polynomial regression by singular value decomposition }
9787: procedure RegTest(Y, Ycalc : TVector;
9788:                      LbY, UbY : Integer;
9789:                      V       : TMatrix;
9790:                      LbV, UbV : Integer;
9791:                      var Test : TRegTest); external 'dmath';
9792: { Test of unweighted regression }
9793: procedure WRegTest(Y, Ycalc, S : TVector;
9794:                      LbY, UbY : Integer;
9795:                      V       : TMatrix;
9796:                      LbV, UbV : Integer;
9797:                      var Test : TRegTest); external 'dmath';
9798: { Test of weighted regression }
9799: { -----
9800:   Nonlinear regression
9801: ----- }
9802: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';
9803: { Sets the optimization algorithm for nonlinear regression }
9804: function GetOptAlgo : TOptAlgo; external 'dmath';
9805: { Returns the optimization algorithm }
9806: procedure SetMaxParam(N : Byte); external 'dmath';
9807: { Sets the maximum number of regression parameters for nonlinear regression }
9808: function GetMaxParam : Byte; external 'dmath';
9809: { Returns the maximum number of regression parameters for nonlinear regression }
9810: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9811: { Sets the bounds on the I-th regression parameter }
9812: procedure GetParamBounds(I : Byte; var ParamMin, ParamMax : Float); external 'dmath';
9813: { Returns the bounds on the I-th regression parameter }
9814: procedure NLFit(RegFunc : TRegFunc;
9815:                      DerivProc : TDerivProc;
9816:                      X, Y       : TVector;
9817:                      Lb, Ub     : Integer;
9818:                      MaxIter   : Integer;
9819:                      Tol        : Float;
9820:                      B          : TVector;
9821:                      FirstPar,
9822:                      LastPar    : Integer;
9823:                      V          : TMatrix); external 'dmath';
9824: { Unweighted nonlinear regression }
9825: procedure WNLFit(RegFunc : TRegFunc;
9826:                      DerivProc : TDerivProc;
9827:                      X, Y, S    : TVector;
9828:                      Lb, Ub     : Integer;
9829:                      MaxIter   : Integer;
9830:                      Tol        : Float;
9831:                      B          : TVector;
9832:                      FirstPar,
9833:                      LastPar    : Integer;
9834:                      V          : TMatrix); external 'dmath';
9835: { Weighted nonlinear regression }
9836: procedure SetMCMFile(FileName : String); external 'dmath';
9837: { Set file for saving MCMC simulations }
9838: procedure SimFit(RegFunc : TRegFunc;
9839:                      X, Y       : TVector;
9840:                      Lb, Ub     : Integer;
9841:                      B          : TVector;
9842:                      FirstPar,
9843:                      LastPar    : Integer;
9844:                      V          : TMatrix); external 'dmath';
9845: { Simulation of unweighted nonlinear regression by MCMC }
9846: procedure WSimFit(RegFunc : TRegFunc;
9847:                      X, Y, S    : TVector;
9848:                      Lb, Ub     : Integer;
9849:                      B          : TVector;
9850:                      FirstPar,
9851:                      LastPar    : Integer;
9852:                      V          : TMatrix); external 'dmath';
9853: { Simulation of weighted nonlinear regression by MCMC }
9854: { -----
9855:   Nonlinear regression models
9856: ----- }
9857: procedure FracFit(X, Y      : TVector;
9858:                      Lb, Ub     : Integer;
9859:                      Deg1, Deg2 : Integer;
9860:                      ConsTerm  : Boolean;
9861:                      MaxIter   : Integer;
9862:                      Tol        : Float;
9863:                      B          : TVector;
9864:                      V          : TMatrix); external 'dmath';
9865: { Unweighted fit of rational fraction }
9866: procedure WFractFit(X, Y, S : TVector;
9867:                      Lb, Ub     : Integer;
9868:                      Deg1, Deg2 : Integer;
9869:                      ConsTerm  : Boolean;
9870:                      MaxIter   : Integer;
9871:                      Tol        : Float;
9872:                      B          : TVector;
9873:                      V          : TMatrix); external 'dmath';
9874: { Weighted fit of rational fraction }

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9875:
9876: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9877: { Returns the value of the rational fraction at point X }
9878: procedure ExpFit(X, Y      : TVector;
9879:                      Lb, Ub, Nexp : Integer;
9880:                      ConsTerm   : Boolean;
9881:                      MaxIter    : Integer;
9882:                      Tol        : Float;
9883:                      B          : TVector;
9884:                      V          : TMatrix); external 'dmath';
9885: { Unweighted fit of sum of exponentials }
9886: procedure WExpFit(X, Y, S : TVector;
9887:                      Lb, Ub, Nexp : Integer;
9888:                      ConsTerm   : Boolean;
9889:                      MaxIter    : Integer;
9890:                      Tol        : Float;
9891:                      B          : TVector;
9892:                      V          : TMatrix); external 'dmath';
9893: { Weighted fit of sum of exponentials }
9894: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9895: { Returns the value of the regression function at point X }
9896: procedure IncExpFit(X, Y      : TVector;
9897:                      Lb, Ub    : Integer;
9898:                      ConsTerm : Boolean;
9899:                      MaxIter  : Integer;
9900:                      Tol       : Float;
9901:                      B          : TVector;
9902:                      V          : TMatrix); external 'dmath';
9903: { Unweighted fit of model of increasing exponential }
9904: procedure WIncExpFit(X, Y, S : TVector;
9905:                      Lb, Ub    : Integer;
9906:                      ConsTerm : Boolean;
9907:                      MaxIter  : Integer;
9908:                      Tol       : Float;
9909:                      B          : TVector;
9910:                      V          : TMatrix); external 'dmath';
9911: { Weighted fit of increasing exponential }
9912: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9913: { Returns the value of the regression function at point X }
9914: procedure ExplinFit(X, Y      : TVector;
9915:                      Lb, Ub    : Integer;
9916:                      MaxIter  : Integer;
9917:                      Tol       : Float;
9918:                      B          : TVector;
9919:                      V          : TMatrix); external 'dmath';
9920: { Unweighted fit of the "exponential + linear" model }
9921: procedure WExplinFit(X, Y, S : TVector;
9922:                      Lb, Ub    : Integer;
9923:                      MaxIter  : Integer;
9924:                      Tol       : Float;
9925:                      B          : TVector;
9926:                      V          : TMatrix); external 'dmath';
9927: { Weighted fit of the "exponential + linear" model }
9928:
9929: function ExplinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9930: { Returns the value of the regression function at point X }
9931: procedure MichFit(X, Y      : TVector;
9932:                      Lb, Ub    : Integer;
9933:                      MaxIter  : Integer;
9934:                      Tol       : Float;
9935:                      B          : TVector;
9936:                      V          : TMatrix); external 'dmath';
9937: { Unweighted fit of Michaelis equation }
9938: procedure WMichFit(X, Y, S : TVector;
9939:                      Lb, Ub    : Integer;
9940:                      MaxIter  : Integer;
9941:                      Tol       : Float;
9942:                      B          : TVector;
9943:                      V          : TMatrix); external 'dmath';
9944: { Weighted fit of Michaelis equation }
9945: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9946: { Returns the value of the Michaelis equation at point X }
9947: procedure MintFit(X, Y      : TVector;
9948:                      Lb, Ub    : Integer;
9949:                      MintVar  : TMintVar;
9950:                      Fit_S0   : Boolean;
9951:                      MaxIter  : Integer;
9952:                      Tol       : Float;
9953:                      B          : TVector;
9954:                      V          : TMatrix); external 'dmath';
9955: { Unweighted fit of the integrated Michaelis equation }
9956: procedure WMintFit(X, Y, S : TVector;
9957:                      Lb, Ub    : Integer;
9958:                      MintVar  : TMintVar;
9959:                      Fit_S0   : Boolean;
9960:                      MaxIter  : Integer;
9961:                      Tol       : Float;
9962:                      B          : TVector;
9963:                      V          : TMatrix); external 'dmath';

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9964: { Weighted fit of the integrated Michaelis equation }
9965: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9966: { Returns the value of the integrated Michaelis equation at point X }
9967: procedure HillFit(X, Y      : TVector;
9968:                      Lb, Ub   : Integer;
9969:                      MaxIter : Integer;
9970:                      Tol     : Float;
9971:                      B       : TVector;
9972:                      V       : TMatrix); external 'dmath';
9973: { Unweighted fit of Hill equation }
9974: procedure WHillFit(X, Y, S : TVector;
9975:                      Lb, Ub   : Integer;
9976:                      MaxIter : Integer;
9977:                      Tol     : Float;
9978:                      B       : TVector;
9979:                      V       : TMatrix); external 'dmath';
9980: { Weighted fit of Hill equation }
9981: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9982: { Returns the value of the Hill equation at point X }
9983: procedure LogiFit(X, Y      : TVector;
9984:                      Lb, Ub   : Integer;
9985:                      ConsTerm : Boolean;
9986:                      General  : Boolean;
9987:                      MaxIter : Integer;
9988:                      Tol     : Float;
9989:                      B       : TVector;
9990:                      V       : TMatrix); external 'dmath';
9991: { Unweighted fit of logistic function }
9992: procedure WLogiFit(X, Y, S : TVector;
9993:                      Lb, Ub   : Integer;
9994:                      ConsTerm : Boolean;
9995:                      General  : Boolean;
9996:                      MaxIter : Integer;
9997:                      Tol     : Float;
9998:                      B       : TVector;
9999:                      V       : TMatrix); external 'dmath';
10000: { Weighted fit of logistic function }
10001: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10002: { Returns the value of the logistic function at point X }
10003: procedure PKFit(X, Y      : TVector;
10004:                      Lb, Ub   : Integer;
10005:                      MaxIter : Integer;
10006:                      Tol     : Float;
10007:                      B       : TVector;
10008:                      V       : TMatrix); external 'dmath';
10009: { Unweighted fit of the acid-base titration curve }
10010: procedure WPKFit(X, Y, S : TVector;
10011:                      Lb, Ub   : Integer;
10012:                      MaxIter : Integer;
10013:                      Tol     : Float;
10014:                      B       : TVector;
10015:                      V       : TMatrix); external 'dmath';
10016: { Weighted fit of the acid-base titration curve }
10017: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10018: { Returns the value of the acid-base titration function at point X }
10019: procedure PowFit(X, Y      : TVector;
10020:                      Lb, Ub   : Integer;
10021:                      MaxIter : Integer;
10022:                      Tol     : Float;
10023:                      B       : TVector;
10024:                      V       : TMatrix); external 'dmath';
10025: { Unweighted fit of power function }
10026: procedure WPowFit(X, Y, S : TVector;
10027:                      Lb, Ub   : Integer;
10028:                      MaxIter : Integer;
10029:                      Tol     : Float;
10030:                      B       : TVector;
10031:                      V       : TMatrix); external 'dmath';
10032: { Weighted fit of power function }
10033:
10034: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10035: { Returns the value of the power function at point X }
10036: procedure GammaFit(X, Y      : TVector;
10037:                      Lb, Ub   : Integer;
10038:                      MaxIter : Integer;
10039:                      Tol     : Float;
10040:                      B       : TVector;
10041:                      V       : TMatrix); external 'dmath';
10042: { Unweighted fit of gamma distribution function }
10043: procedure WGammaFit(X, Y, S : TVector;
10044:                      Lb, Ub   : Integer;
10045:                      MaxIter : Integer;
10046:                      Tol     : Float;
10047:                      B       : TVector;
10048:                      V       : TMatrix); external 'dmath';
10049: { Weighted fit of gamma distribution function }
10050: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10051: { Returns the value of the gamma distribution function at point X }
10052: { -----}

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10053: Principal component analysis
10054: -----
10055: procedure VecMean(X : TMatrix;
10056:           Lb, Ub, Nvar : Integer;
10057:           M : TVector); external 'dmath';
10058: { Computes the mean vector M from matrix X }
10059: procedure VecSD(X : TMatrix;
10060:           Lb, Ub, Nvar : Integer;
10061:           M, S : TVector); external 'dmath';
10062: { Computes the vector of standard deviations S from matrix X }
10063: procedure MatVarCov(X : TMatrix;
10064:           Lb, Ub, Nvar : Integer;
10065:           M : TVector;
10066:           V : TMatrix); external 'dmath';
10067: { Computes the variance-covariance matrix V from matrix X }
10068: procedure MatCorrel(V : TMatrix;
10069:           Nvar : Integer;
10070:           R : TMatrix); external 'dmath';
10071: { Computes the correlation matrix R from the var-cov matrix V }
10072: procedure PCA(R : TMatrix;
10073:           Nvar : Integer;
10074:           Lambda : TVector;
10075:           C, Rc : TMatrix); external 'dmath';
10076: { Performs a principal component analysis of the correlation matrix R }
10077: procedure ScaleVar(X : TMatrix;
10078:           Lb, Ub, Nvar : Integer;
10079:           M, S : TVector;
10080:           Z : TMatrix); external 'dmath';
10081: { Scales a set of variables by subtracting means and dividing by SD's }
10082: procedure PrinFac(Z : TMatrix;
10083:           Lb, Ub, Nvar : Integer;
10084:           C, F : TMatrix); external 'dmath';
10085: { Computes principal factors }
10086: { -----
10087: Strings
10088: ----- }

10089: function LTrim(S : String) : String; external 'dmath';
10090: { Removes leading blanks }
10091: function RTrim(S : String) : String; external 'dmath';
10092: { Removes trailing blanks }
10093: function Trim(S : String) : String; external 'dmath';
10094: { Removes leading and trailing blanks }
10095: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10096: { Returns a string made of character C repeated N times }
10097: function RFill(S : String; L : Byte) : String; external 'dmath';
10098: { Completes string S with trailing blanks for a total length L }
10099: function LFill(S : String; L : Byte) : String; external 'dmath';
10100: { Completes string S with leading blanks for a total length L }
10101: function CFill(S : String; L : Byte) : String; external 'dmath';
10102: { Centers string S on a total length L }
10103: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10104: { Replaces in string S all the occurrences of C1 by C2 }
10105: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10106: { Extracts a field from a string }
10107: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10108: { Parses a string into its constitutive fields }
10109: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10110: { Sets the numeric format }
10111: function FloatToStr(X : Float) : String; external 'dmath';
10112: { Converts a real to a string according to the numeric format }
10113: function IntToStr(N : LongInt) : String; external 'dmath';
10114: { Converts an integer to a string }
10115: function CompStr(Z : Complex) : String; external 'dmath';
10116: { Converts a complex number to a string }
10117: {$IFDEF DELPHI}
10118: function StrDec(S : String) : String; external 'dmath';
10119: { Set decimal separator to the symbol defined in SysUtils }
10120: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10121: { Test if a string represents a number and returns it in X }
10122: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10123: { Reads a floating point number from an Edit control }
10124: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10125: { Writes a floating point number in a text file }
10126: {$ENDIF}
10127: { -----
10128: BGI / Delphi graphics
10129: ----- }

10130: function InitGraphics
10131: {$IFDEF DELPHI}
10132: (Width, Height : Integer) : Boolean;
10133: {$ELSE}
10134: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10135: { Enters graphic mode }
10136: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10137:           X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10138: { Sets the graphic window }
10139: procedure SetOxScale(Scale : TScale;
10140:           OxMin, OxMax, OxStep : Float); external 'dmath';
10141: { Sets the scale on the Ox axis }

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10142: procedure SetOyScale(Scale           : TScale;
10143:                           OyMin, OyMax, OyStep : Float); external 'dmath';
10144: { Sets the scale on the Oy axis }
10145: procedure GetOxScale(var Scale       : TScale;
10146:                           var OxMin, OxMax, OxStep : Float); external 'dmath';
10147: { Returns the scale on the Ox axis }
10148: procedure GetOyScale(var Scale       : TScale;
10149:                           var OyMin, OyMax, OyStep : Float); external 'dmath';
10150: { Returns the scale on the Oy axis }
10151: procedure SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10152: procedure SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10153: procedure SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10154: function GetGraphTitle : string; external 'dmath'; { Returns the title for the graph }
10155: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10156: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10157: {$IFDEF DELPHI}
10158: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10159: { Sets the font for the main graph title }
10160: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10161: { Sets the font for the Ox axis (title and labels) }
10162: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10163: { Sets the font for the Oy axis (title and labels) }
10164: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10165: { Sets the font for the legends }
10166: procedure SetClipping(Clip : Boolean); external 'dmath';
10167: { Determines whether drawings are clipped at the current viewport
10168:   boundaries, according to the value of the Boolean parameter Clip }
10169: {$ENDIF}
10170: procedure PlotOxAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10171: { Plots the horizontal axis }
10172: procedure PlotOyAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10173: { Plots the vertical axis }
10174: procedure PlotGrid{$IFDEF DELPHI}(Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10175: { Plots a grid on the graph }
10176: procedure WriteGraphTitle{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10177: { Writes the title of the graph }
10178: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10179: { Sets the maximum number of curves and re-initializes their parameters }
10180: procedure SetPointParam
10181: {$IFDEF DELPHI}
10182: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10183: {$ELSE}
10184: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10185: { Sets the point parameters for curve # CurvIndex }
10186: procedure SetlineParam
10187: {$IFDEF DELPHI}
10188: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10189: {$ELSE}
10190: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10191: { Sets the line parameters for curve # CurvIndex }
10192: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10193: { Sets the legend for curve # CurvIndex }
10194: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10195: { Sets the step for curve # CurvIndex }
10196: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10197: procedure GetPointParam
10198: {$IFDEF DELPHI}
10199: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10200: {$ELSE}
10201: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10202: { Returns the point parameters for curve # CurvIndex }
10203: procedure GetlineParam
10204: {$IFDEF DELPHI}
10205: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10206: {$ELSE}
10207: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10208: { Returns the line parameters for curve # CurvIndex }
10209: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10210: { Returns the legend for curve # CurvIndex }
10211: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10212: { Returns the step for curve # CurvIndex }
10213: {$IFDEF DELPHI}
10214: procedure PlotPoint(Canvas      : TCanvas;
10215:                         X, Y      : Float; CurvIndex : Integer); external 'dmath';
10216: {$ELSE}
10217: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10218: {$ENDIF}
10219: { Plots a point on the screen }
10220: procedure PlotCurve{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10221:                               X, Y      : TVector;
10222:                               Lb, Ub, CurvIndex : Integer); external 'dmath';
10223: { Plots a curve }
10224: procedure PlotCurveWithErrorBars{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10225:                                         X, Y, S      : TVector;
10226:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10227: { Plots a curve with error bars }
10228: procedure PlotFunc{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10229:                               Func      : TFunc;
10230:                               Xmin, Xmax : Float;

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10231:           {$IFDEF DELPHI}Npt      : Integer;{$ENDIF}
10232:           CurvIndex       : Integer); external 'dmath';
10233: { Plots a function }
10234: procedure WriteLegend({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10235:                           NCurv        : Integer;
10236:                           ShowPoints, ShowLines : Boolean); external 'dmath';
10237: { Writes the legends for the plotted curves }
10238: procedure ConRec({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10239:                      Nx, Ny, Nc      : Integer;
10240:                      X, Y, Z         : TVector;
10241:                      F              : TMatrix); external 'dmath';
10242: { Contour plot }
10243: function Xpixel(X : Float):Integer; external 'dmath'; { Converts user abscissa X to screen coordinate }
10244: function Ypixel(Y : Float):Integer; external 'dmath'; { Converts user ordinate Y to screen coordinate }
10245: function Xuser(X : Integer):Float; external 'dmath'; { Converts screen coordinate X to user abscissa }
10246: function Yuser(Y : Integer):Float; external 'dmath'; { Converts screen coordinate Y to user ordinate }
10247: {$IFNDEF DELPHI}
10248: procedure LeaveGraphics; external 'dmath';
10249: { Quits graphic mode }
10250: {$ENDIF}
10251: { -----
10252:   LaTeX graphics
10253: ----- }
10254: function TeX_InitGraphics(FileName      : String; PgWidth, PgHeight : Integer;
10255:                             Header        : Boolean); external 'dmath';
10256: { Initializes the LaTeX file }
10257: procedure TeX_SetWindow(Xl, X2, Yl, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10258: { Sets the graphic window }
10259: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10260: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10261: { Sets the scale on the Ox axis }
10262: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10263: { Sets the scale on the Oy axis }
10264: procedure TeX_SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10265: procedure TeX_SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10266: procedure TeX_SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10267: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10268: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10269: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10270: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph
10271: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10272: { Sets the maximum number of curves and re-initializes their parameters }
10273: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10274: { Sets the point parameters for curve # CurvIndex }
10275: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10276:                               Width : Float; Smooth : Boolean); external 'dmath';
10277: { Sets the line parameters for curve # CurvIndex }
10278: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10279: { Sets the legend for curve # CurvIndex }
10280: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10281: { Sets the step for curve # CurvIndex }
10282: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10283: { Plots a curve }
10284: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10285:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10286: { Plots a curve with error bars }
10287: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10288:                          Npt : Integer; CurvIndex : Integer); external 'dmath';
10289: { Plots a function }
10290: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10291: { Writes the legends for the plotted curves }
10292: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10293: { Contour plot }
10294: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10295: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10296:
10297: //*****unit uPSI_SynPdf;
10298: Function RawUTF8ToPDFString( const Value : RawUTF8) : PDFString
10299: Function _DateTimeToPdfDate( ADate : TDateTime) : TPdfDate
10300: Function _PdfDateToDateTime( const AText : TPdfDate) : TDateTime
10301: Function PdfRect( Left, Top, Right, Bottom : Single) : TPdfRect;
10302: Function PdfRect1( const Box : TPdfBox) : TPdfRect;
10303: Function PdfBox( Left, Top, Width, Height : Single) : TPdfBox
10304: //Function _GetCharCount( Text : PAnsiChar) : integer
10305: //Procedure L2R( W : PWideChar; L : integer)
10306: Function PdfCoord( MM : single) : integer
10307: Function CurrentPrinterPageSize : TPDFPaperSize
10308: Function CurrentPrinterRes : TPoint
10309: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8)
10310: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer)
10311: Procedure GDICommentLink( MetaHandle:HDC; const aBookmarkName:RawUTF8; const aRect : TRect)
10312: Const('Usp10','String 'usp10.dll
10313: AddTypes('TScriptState_enum', ('r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10314: 'fCharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10315: AddTypes('TScriptState_set', 'set of TScriptState_enum
10316: //*****
10317:
10318: procedure SIRegister_PMrand(CL: TPPascalCompiler); //ParkMiller
10319: begin

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10320: Procedure PMrandomize( I : word)
10321: Function PMrandom : longint
10322: Function Rrand : extended
10323: Function Irand( N : word) : word
10324: Function Brand( P : extended) : boolean
10325: Function Nrand : extended
10326: end;
10327:
10328: procedure SIRегистер_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10329: begin
10330:   Function Endian( x : LongWord) : LongWord
10331:   Function Endian64( x : Int64) : Int64
10332:   Function spRol( x : LongWord; y : Byte) : LongWord
10333:   Function spRor( x : LongWord; y : Byte) : LongWord
10334:   Function Ror64( x : Int64; y : Byte) : Int64
10335: end;
10336:
10337: procedure SIRегистер_MapReader(CL: TPSPascalCompiler);
10338: begin
10339:   Procedure ClearModules
10340:   Procedure ReadMapFile( Fname : string)
10341:   Function AddressInfo( Address : dword) : string
10342: end;
10343:
10344: procedure SIRегистер_LibTar(CL: TPSPascalCompiler);
10345: begin
10346:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOw'
10347:   +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWri'
10348:   +'teByOther, tpExecuteByOther )
10349:   TTarPermissions', 'set of TTarPermission
10350:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10351:   +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader;
10352:   TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10353:   TTarModes', 'set of TTarMode
10354:   TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDA'
10355:   +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10356:   +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING;'
10357:   +'ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10358:   +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10359:   SIRегистер_TTarArchive(CL);
10360:   SIRегистер_TTarWriter(CL);
10361:   Function PermissionString( Permissions : TTarPermissions) : STRING
10362:   Function ConvertFilename( Filename : STRING) : STRING
10363:   Function FileTimeGMT( FileName : STRING) : TDateTime;
10364:   Function FileTimeGMT1( SearchRec : TSearchRec) : TDateTime;
10365:   Procedure ClearDirRec( var DirRec : TTarDirRec)
10366: end;
10367:
10368:
10369: //*****unit uPSI_TlHelp32;
10370: procedure SIRегистер_TlHelp32(CL: TPSPascalCompiler);
10371: begin
10372:   Const('MAX_MODULE_NAME32','LongInt'( 255);
10373:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD) : THandle
10374:   Const('TH32CS_SNAPHEAPLIST','LongWord( $00000001)';
10375:   Const('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002);
10376:   Const('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004);
10377:   Const('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008);
10378:   Const('TH32CS_INHERIT','LongWord').SetUInt( $80000000);
10379:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10380:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10381:   AddTypeS('THeapList32', 'tagHEAPLIST32
10382:   Const('HF32_DEFAULT','LongInt'( 1);
10383:   Const('HF32_SHARED','LongInt'( 2);
10384:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10385:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10386:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAd'
10387:   +'ress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10388:   +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10389:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10390:   AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10391:   Const('LF32_FIXED','LongWord').SetUInt( $00000001);
10392:   Const('LF32_FREE','LongWord').SetUInt( $00000002);
10393:   Const('LF32_MOVEABLE','LongWord').SetUInt( $00000004);
10394:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD) : BOOL
10395:   Function Heap32Next( var lphe : THeapEntry32) : BOOL
10396:   DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10397:   AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10398:   +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10399:   +'aPri : Longint; dwFlags : DWORD; end
10400:   AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10401:   AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10402:   Function Thread32First( hSnapshot : THandle; var lppte : TThreadEntry32) : BOOL
10403:   Function Thread32Next( hSnapshot : THandle; var lppte : TThreadEntry32) : BOOL
10404: end;
10405: Const('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042);
10406: Const('EW_REBOOTSYSTEM','LongWord( $0043);
10407: Const('EW_EXITANDEXECAPP','LongWord( $0044);
10408: Const('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD ( $80000000 ));
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10409: Const ('EWX_LOGOFF', 'LongInt'( 0));
10410: Const ('EWX_SHUTDOWN', 'LongInt'( 1));
10411: Const ('EWX_REBOOT', 'LongInt'( 2));
10412: Const ('EWX_FORCE', 'LongInt'( 4));
10413: Const ('EWX_POWEROFF', 'LongInt'( 8));
10414: Const ('EWX_FORCEIFHUNG', 'LongWord').SetUInt( $10);
10415: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint;
10416: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word;
10417: Function GET_MOUSEKEY_LPARAM( const lParam : LongInt ) : Word;
10418: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word;
10419: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word;
10420: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word;
10421: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word;
10422: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint;
10423: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint;
10424: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word;
10425: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word;
10426: Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD;
10427: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD;
10428: Function GetDesktopWindow : HWND;
10429: Function GetParent( hWnd : HWND ) : HWND;
10430: Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND;
10431: Function GetTopWindow( hWnd : HWND ) : HWND;
10432: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND;
10433: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND;
10434: //Delphi DFM
10435: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer;
10436: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string ) : integer;
10437: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10438: function GetHighlightersFilter(AHighlighters: TStringList): string;
10439: function GetHighlighterFromFileExt(AHighlighters: TStringList; Extension: string): TSynCustomHighlighter;
10440: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL;
10441: Function OpenIcon( hWnd : HWND ) : BOOL;
10442: Function CloseWindow( hWnd : HWND ) : BOOL;
10443: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL;
10444: Function SetWindowPos( hWnd : HWND; hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UInt ) : BOOL;
10445: Function IsWindowVisible( hWnd : HWND ) : BOOL;
10446: Function IsIconic( hWnd : HWND ) : BOOL;
10447: Function AnyPopup : BOOL;
10448: Function BringWindowToFront( hWnd : HWND ) : BOOL;
10449: Function IsZoomed( hWnd : HWND ) : BOOL;
10450: Function IsWindow( hWnd : HWND ) : BOOL;
10451: Function IsMenu( hMenu : HMENU ) : BOOL;
10452: Function IsChild( hWndParent, hWnd : HWND ) : BOOL;
10453: Function DestroyWindow( hWnd : HWND ) : BOOL;
10454: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL;
10455: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL;
10456: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL;
10457: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL;
10458: Function IsWindowUnicode( hWnd : HWND ) : BOOL;
10459: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL;
10460: Function IsWindowEnabled( hWnd : HWND ) : BOOL;
10461:
10462: procedure SIRегистre_IDECmdLine(CL: TPPascalCompiler);
10463: begin
10464:   const ('ShowSetupDialogOptLong', 'String '--setup
10465: PrimaryConfPathOptLong, 'String '--primary-config-path=
10466: PrimaryConfPathOptShort, 'String '--pcp=
10467: SecondaryConfPathOptLong, 'String '--secondary-config-path=
10468: SecondaryConfPathOptShort, 'String '--scp=
10469: NoSplashScreenOptLong, 'String '--no-splash-screen
10470: NoSplashScreenOptShort, 'String '--nsc
10471: StartedByStartLazarusOpt, 'String '--started-by-startlazarus
10472: SkipLastProjectOpt, 'String '--skip-last-project
10473: DebugLogOpt, 'String '--debug-log=
10474: DebugLogOptEnable, 'String '--debug-enable=
10475: LanguageOpt, 'String '--language=
10476: LazarusDirOpt, 'String '--lazarusdir=
10477: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10478: Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean ) : string;
10479: Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings ) : string;
10480: Function IsHelpRequested : Boolean;
10481: Function IsVersionRequested : boolean;
10482: Function GetLanguageSpecified : string;
10483: Function ParamIsOption( ParamIndex : integer; const Option : string ) : boolean;
10484: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10485: Procedure ParseNoGuiCmdLineParams;
10486: Function ExtractCmdLineFilenames : TStrings;
10487: end;
10488:
10489:
10490: procedure SIRегистre_LazFileUtils(CL: TPPascalCompiler);
10491: begin
10492:   Function CompareFilenames( const Filenam1, Filenam2 : string ) : integer;
10493:   Function CompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string ) : integer;
10494:   Function CompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean ) : integer;
10495:   Function CompareFileExt1( const Filenam, Ext : string ) : integer;
10496:   Function CompareFilenameStarts( const Filenam1, Filenam2 : string ) : integer;
10497:   Function CompareFilenames(Filenam1:PChar;Len1:integer; Filenam2:PChar;Len2:integer):integer;

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10498: Function CompareFilenamesP( Filename1, Filename2 : PChar; IgnoreCase : boolean) : integer
10499: Function DirPathExists( DirectoryName : string) : boolean
10500: Function DirectoryIsWritable( const DirectoryName : string) : boolean
10501: Function ExtractFileNameOnly( const AFilename : string) : string
10502: Function FilenameIsAbsolute( const TheFilename : string) : boolean
10503: Function FilenameIsWinAbsolute( const TheFilename : string) : boolean
10504: Function FilenameIsUnixAbsolute( const TheFilename : string) : boolean
10505: Function ForceDirectory( DirectoryName : string) : boolean
10506: Procedure CheckIfFileIsExecutable( const AFilename : string)
10507: Procedure CheckIfFileIsSymlink( const AFilename : string)
10508: Function FileIsText( const AFilename : string) : boolean
10509: Function FileIsText2( const AFilename : string; out FileReadable : boolean) : boolean
10510: Function FilenameIsTrimmed( const TheFilename : string) : boolean
10511: Function FilenameIsTrimmed2( StartPos : PChar; NameLen : integer) : boolean
10512: Function TrimFilename( const AFilename : string) : string
10513: Function ResolveDots( const AFilename : string) : string
10514: Procedure ForcePathDelims( var FileName : string)
10515: Function GetForcedPathDelims( const FileName : string) : String
10516: Function CleanAndExpandfilename( const Filename : string) : string
10517: Function CleanAndExpandDirectory( const Filename : string) : string
10518: Function TrimAndExpandfilename( const Filename : string; const BaseDir : string) : string
10519: Function TrimAndExpandDirectory( const Filename : string; const BaseDir : string) : string
10520: Function TryCreateRelativePath( const Dest, Source: String; UsePointDirectory:bool;
  AlwaysRequireSharedBaseFolder: Boolean; out RelPath : String) : Boolean
10521: Function CreateRelativePath( const Filename, BaseDirectory:string; UsePointDirectory:boolean;
  AlwaysRequireSharedBaseFolder: Boolean) : string
10522: Function FileIsInPath( const Filename, Path : string) : boolean
10523: Function AppendPathDelim( const Path : string) : string
10524: Function ChompPathDelim( const Path : string) : string
10525: Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string) : string
10526: Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string) : string
10527: Function MinimizeSearchPath( const SearchPath : string) : string
10528: Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
  (*Function FileExistsUTF8( const FileName : string) : boolean
10529: Function FileAgeUTF8( const FileName : string) : Longint
10530: Function DirectoryExistsUTF8( const Directory : string) : Boolean
10531: Function ExpandFileNameUTF8( const FileName : string; BaseDir : string) : string
10532: Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10533: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
10534: Procedure FindCloseUTF8( var F : TSearchrec)
10535: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
10536: Function FileGetAttrUTF8( const FileName : String) : Longint
10537: Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
10538: Function DeleteFileUTF8( const FileName : String) : Boolean
10539: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
10540: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
10541: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
10542: Function GetCurrentDirUTF8 : String
10543: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
10544: Function CreateDirUTF8( const NewDir : String) : Boolean
10545: Function RemoveDirUTF8( const Dir : String) : Boolean
10546: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
10547: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
10548: Function FileCreateUTF8( const FileName : string) : THandle;
10549: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THHandle;
10550: Function FileCreateUtf82( const FileName : string; ShareMode : Integer; Rights : Cardinal) : THHandle;
10551: Function FileSizeUtf8( const FileName : string) : int64
10552: Function GetFileDescription( const AFilename : string) : string
10553: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
10554: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean) : string
10555: Function GetTempFileNameUTF8( const Dir, Prefix : String) : String*
10556: Function IsUNCPath( const Path : String) : Boolean
10557: Function ExtractUNCVolume( const Path : String) : String
10558: Function ExtractFileRoot( FileName : String) : String
10559: Function GetDarwinSystemFilename( Filename : string) : string
10560: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean)
10561: Function StrToCmdlineParam( const Param : string) : string
10562: Function MergeCmdlineParams( ParamList : TStrings) : string
10563: Procedure InvalidateFileStateCache( const Filename : string)
10564: Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10565: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
10566: Function ReadFileToString( const Filename : string) : string
10567:
10568: type
10569:   TCopyFileFlag = ( cffOverwriteFile,
10570:     cffCreateDestDirectory, cffPreserveTime );
10571:   TCopyFileFlags = set of TCopyFileFlag;*)
10572:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10573:   TCopyFileFlags', 'set of TCopyFileFlag
10574:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
10575: end;
10576:
10577: procedure SIRegister_lazMasks(CL: TPPascalCompiler);
10578: begin
10579:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10580:   SIRegister_TMask(CL);
10581:   SIRegister_TParseStringList(CL);
10582:   SIRegister_TMaskList(CL);
10583:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Boolean
10584:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Bool;

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10585: Function MatchesMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10586: Function MatchesWindowsMaskList(const FileName,Mask:String;Separat:Char;const CaseSensitive:Bool):Bool;
10587: end;
10588:
10589: procedure SIRegister_JvShellHook(CL: TPSPascalCompiler);
10590: begin
10591:   //PShellHookInfo', '^TShellHookInfo // will not work
10592:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10593:   SHELLHOOKINFO', 'TShellHookInfo
10594:   LPSHELLHOOKINFO', 'PShellHookInfo
10595:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10596:   SIRegister_IJvShellHook(CL);
10597:   Function InitJvShellHooks : Boolean
10598:   Procedure UnInitJvShellHooks
10599: end;
10600:
10601: procedure SIRegister_JvExControls(CL: TPSPascalCompiler);
10602: begin
10603:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10604:   +', dcHasSelSel, dcWantTab, dcNative )
10605:   TDlgCodes', 'set of TDlgCode
10606:   'dcWantMessage',' dcWantAllKeys);
10607:   SIRegister_IJvExControl(CL);
10608:   SIRegister_IJvDenySubClassing(CL);
10609:   SIRegister_TStructPtrMessage(CL);
10610:   Procedure SetDotNetBarColors( FocusedColor, UnfocusedColor : TColor)
10611:   Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10612:   Procedure DrawDotNetControl( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10613:   Procedure HandleDotNetBarHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10614:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10615:   Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10616:   Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10617:   Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10618:   Function GetFocusedControl( AControl : TControl ) : TWinControl
10619:   Function DlgcToDlgCodes( Value : Longint ) : TDlgCodes
10620:   Function DlgCodesToDlcg( Value : TDlgCodes ) : Longint
10621:   Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor);
10622:   Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10623:   SIRegister_IJvExControl(CL);
10624:   SIRegister_IJvExWinControl(CL);
10625:   SIRegister_IJvExCustomControl(CL);
10626:   SIRegister_IJvExGraphicControl(CL);
10627:   SIRegister_IJvExHintWindow(CL);
10628:   SIRegister_IJvExPubGraphicControl(CL);
10629: end;
10630:
10631: (*-----*)
10632: procedure SIRegister_EncdDecd(CL: TPSPascalCompiler);
10633: begin
10634:   Procedure EncodeStream( Input, Output : TStream)
10635:   Procedure DecodeStream( Input, Output : TStream)
10636:   Function EncodeString1( const Input : string) : string
10637:   Function DecodeString1( const Input : string) : string
10638: end;
10639:
10640: (*-----*)
10641: procedure SIRegister_SockAppReg(CL: TPSPascalCompiler);
10642: begin
10643:   SIRegister_TWebAppRegInfo(CL);
10644:   SIRegister_TWebAppRegList(CL);
10645:   Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10646:   Procedure RegisterWebApp( const AFileName, AProgID : string)
10647:   Procedure UnregisterWebApp( const AProgID : string)
10648:   Function FindRegisteredWebApp( const AProgID : string) : string
10649:   Function CreateRegistry( InitializeNewFile : Boolean) : TCustomIniFile
10650:   'sUDPPort','String 'UDPPort
10651: end;
10652:
10653: procedure SIRegister_PJEnvVars(CL: TPSPascalCompiler);
10654: begin
10655:   // TStringDynArray', 'array of string
10656:   Function GetEnvVarValue( const VarName : string) : string
10657:   Function SetEnvVarValue( const VarName, VarValue : string) : Integer
10658:   Function DeleteEnvVar( const VarName : string) : Integer
10659:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int):Int;
10660:   Function ExpandEnvVars( const Str : string) : string
10661:   Function GetAllEnvVars( const Vars : TStrings) : Integer
10662:   Procedure GetAllEnvVarNames( const Names : TStrings);
10663:   Function GetAllEnvVarNames1 : TStringDynArray;
10664:   Function EnvBlockSize : Integer
10665:   TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject)
10666:   SIRegister_TPJEnvVarsEnumerator(CL);
10667:   SIRegister_TPJEnvVars(CL);
10668:   FindClass('TOBJECT'), 'EPJEnvVars
10669:   FindClass('TOBJECT'), 'EPJEnvVars
10670: //Procedure Register
10671: end;
10672:

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10673: (*-----*)
10674: procedure SIRегистер_PJConsoleApp(CL: TPSPPascalCompiler);
10675: begin
10676:   'cOneSecInMS', 'LongInt'( 1000);
10677:   // 'cDefTimeSlice', 'LongInt'( 50);
10678:   // 'cDefMaxExecTime', 'cOneMinInMS';
10679:   'cAppErrorMask', 'LongInt'( 1 shl 29);
10680:   Function IsApplicationError( const ErrCode : LongWord ) : Boolean
10681:   TPJConsoleAppPriority', '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10682:   TPJConsoleColors', 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10683:   Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor):TPJConsoleColors;
10684:   Function MakeConsoleColors1( const AForeground, ABackground : TColor ) : TPJConsoleColors;
10685:   Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor ) : TPJConsoleColors;
10686:   Function MakeSize( const ACX, ACY : LongInt ) : TSize
10687:   SIRегистер_TPJCustomConsoleApp(CL);
10688:   SIRегистер_TPJConsoleApp(CL);
10689: end;
10690:
10691: procedure SIRегистер_ip_misc(CL: TPSPPascalCompiler);
10692: begin
10693:   INVALID_IP_ADDRESS', 'LongWord').SetUInt( $ffffffff );
10694:   t_encoding', '( uuencode, base64, mime )
10695:   Function internet_date( date : TDateTime ) : string
10696:   Function lookup_hostname( const hostname : string ) : longint
10697:   Function my_hostname : string
10698:   Function my_ip_address : longint
10699:   Function ip2string( ip_address : longint ) : string
10700:   Function resolve_hostname( ip : longint ) : string
10701:   Function address_from( const s : string; count : integer ) : string
10702:   Function encode_base64( data : TStream ) : TStringList
10703:   Function decode_base64( source : TStringList ) : TMemoryStream
10704:   Function posn( const s, t : string; count : integer ) : integer
10705:   Function posnc( c : char; const s : string; n : integer ) : integer
10706:   Function filename_of( const s : string ) : string
10707:   //Function trim( const s : string ) : string
10708:   //Procedure setlength( var s : string; l : byte)
10709:   Function TimeZoneBias : longint
10710:   Function eight2seven_quoteprint( const s : string ) : string
10711:   Function eight2seven_german( const s : string ) : string
10712:   Function seven2eight_quoteprint( const s : string ) : string end;
10713:   type in_addr', 'record s_bytes : array[1..4] of byte; end;
10714:   Function socketerror : cint
10715:   Function fsocket( domain : cint; xtype : cint; protocol : cint ) : cint
10716:   Function frecv( s : cint; buf : __pointer; len : size_t; flags : cint ) : ssize_t
10717:   Function fpsend( s : cint; msg : __pointer; len : size_t; flags : cint ) : ssize_t
10718:   //Function fpbind( s : cint; addrx : psockaddr; addrlen : tsocklen ) : cint
10719:   Function fplistener( s : cint; backlog : cint ) : cint
10720:   //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint ) : cint
10721:   //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen ) : cint
10722:   //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen ) : cint
10723:   Function NetAddrToStr( Entry : in_addr ) : String
10724:   Function HostAddrToStr( Entry : in_addr ) : String
10725:   Function StrToHostAddr( IP : String ) : in_addr
10726:   Function StrToNetAddr( IP : String ) : in_addr
10727:   SOL_SOCKET', 'LongWord').SetUInt( $ffff );
10728:   cint8', 'shortint
10729:   cuint8', 'byte
10730:   cchar', 'cint8
10731:   cschar', 'cint8
10732:   cuchar', 'cuint8
10733:   cint16', 'smallint
10734:   cuint16', 'word
10735:   cshort', 'cint16
10736:   csshort', 'cint16
10737:   cushort', 'cuint16
10738:   cint32', 'longint
10739:   cuint32', 'longword
10740:   cint', 'cint32
10741:   csint', 'cint32
10742:   cuint', 'cuint32
10743:   csigned', 'cint
10744:   cunsigned', 'cuint
10745:   cint64', 'int64
10746:   clonglong', 'cint64
10747:   cslonglong', 'cint64
10748:   cbool', 'longbool
10749:   cfloat', 'single
10750:   cdouble', 'double
10751:   clongdouble', 'extended
10752:
10753: procedure SIRегистер_uLkJSON(CL: TPSPPascalCompiler);
10754: begin
10755:   TlkJSONTypes', '( jsBase, jsNumber, jsString, jsBoolean, jsNull, jsList, jsObject )
10756:   SIRегистер_TlkJSONdotnetclass(CL);
10757:   SIRегистер_TlkJSONbase(CL);
10758:   SIRегистер_TlkJSONnumber(CL);
10759:   SIRегистер_TlkJSONstring(CL);
10760:   SIRегистер_TlkJSONboolean(CL);
10761:   SIRегистер_TlkJSONnull(CL);

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10762: TlkJSONFuncEnum', 'Procedure ( ElName : string; Ele : TlkJSONba'
10763: +'se; data : TObject; var Continue : Boolean)
10764: SIRegister_TlkJSONcustomlist(CL);
10765: SIRegister_TlkJSONlist(CL);
10766: SIRegister_TlkJSONobjectmethod(CL);
10767: TlkHashItem', 'record hash : cardinal; index : Integer; end
10768: TlkHashFunction', 'Function ( const ws : WideString) : cardinal
10769: SIRegister_TlkHashTable(CL);
10770: SIRegister_TlkBalTree(CL);
10771: SIRegister_TlkJSONobject(CL);
10772: SIRegister_TlkJSON(CL);
10773: SIRegister_TlkJSONstreamed(CL);
10774: Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer): string
10775: end;
10776:
10777: procedure SIRegister_ZSysUtils(CL: TPPascalCompiler);
10778: begin
10779:   TZListSortCompare', 'Function (Item1, Item2 : TObject): Integer
10780:   SIRegister_TZSortedlist(CL);
10781:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10782:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10783: //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10784: //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10785: Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10786: Function StartsWith1( const Str, SubStr : RawByteString) : Boolean;
10787: Function EndsWith( const Str, SubStr : WideString) : Boolean;
10788: Function EndsWith1( const Str, SubStr : RawByteString) : Boolean;
10789: Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10790: Function SQLStrToFloatDef1( Str : string; Def : Extended) : Extended;
10791: Function SQLStrToFloat( const Str : AnsiString) : Extended
10792: //Function BufferToStr( Buffer : PWideChar; Length : LongInt) : string;
10793: //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt) : string;
10794: Function BufferToBytes( Buffer : TObject; Length : LongInt) : TByteDynArray
10795: Function StrToBoolEx( Str : string) : Boolean
10796: Function BoolToStrEx( Bool : Boolean) : String
10797: Function IsIpAddr( const Str : string) : Boolean
10798: Function zSplitString( const Str, Delimiters : string) : TStrings
10799: Procedure PutSplitString( List : TStrings; const Str, Delimiters : string)
10800: Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string)
10801: Function ComposeString( List : TStrings; const Delimiter : string) : string
10802: Function FloatToSQLStr( Value : Extended) : string
10803: Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string)
10804: Function SplitStringEx( const Str, Delimiter : string) : TStrings
10805: Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string)
10806: Function zBytesToStr( const Value : TByteDynArray) : AnsiString
10807: Function zStrToBytes( const Value : AnsiString) : TByteDynArray;
10808: Function StrToBytes1( const Value : UTF8String) : TByteDynArray;
10809: Function StrToBytes2( const Value : RawByteString) : TByteDynArray;
10810: Function StrToBytes3( const Value : WideString) : TByteDynArray;
10811: Function StrToBytes4( const Value : UnicodeString) : TByteDynArray;
10812: Function BytesToVar( const Value : TByteDynArray) : Variant
10813: Function VarToBytes( const Value : Variant) : TByteDynArray
10814: Function AnsiSQLDateToDate( const Value : string) : TDateTime
10815: Function TimestampStrToDate( const Value : string) : TDateTime
10816: Function DateToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean) : string
10817: Function EncodeCString( const Value : string) : string
10818: Function DecodeCString( const Value : string) : string
10819: Function zReplaceChar( const Source, Target : Char; const Str : string) : string
10820: Function MemPas( Buffer : PChar; Length : LongInt) : string
10821: Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10822: Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10823: Function FormatsSQLVersion( const SQLVersion : Integer) : String
10824: Function ZStrToFloat( Value : AnsiChar) : Extended;
10825: Function ZStrToFloat1( Value : AnsiString) : Extended;
10826: Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString);
10827: Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString);
10828: Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String);
10829: Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String);
10830: Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString);
10831: Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString);
10832: Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString);
10833: end;
10834:
10835: unit uPSI_ZEncoding;
10836: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word) : RawByteString
10837: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word) : String
10838: Function ZRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10839: Function ZUnicodeToRaw( const US : WideString; CP : Word) : RawByteString
10840: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10841: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10842: Function ZConvertAnsiToUTF8( const Src : AnsiString) : UTF8String
10843: Function ZConvertUTF8ToAnsi( const Src : UTF8String) : AnsiString
10844: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10845: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10846: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10847: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10848: Function ZConvertStringToRawWithAutoEncode(const Src:String;const StringCP,RawCP:Word):RawByteString;

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10849: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word ) : String
10850: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10851: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP: Word): UTF8String
10852: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10853: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP: Word): AnsiString
10854: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10855: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word) : String
10856: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word) : String
10857: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word) : WideString
10858: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word) : WideString
10859: Function ZConvertStringToUnicodeWithAutoEncode( const Src: String; const StringCP:Word):WideString
10860: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10861: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10862: Function ZMoveAnsiToUTF8( const Src : AnsiString ) : UTF8String
10863: Function ZMoveUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10864: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10865: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10866: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10867: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10868: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10869: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10870: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word ) : String
10871: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word) : UTF8String
10872: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10873: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word) : WideString
10874: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word ) : RawByteString
10875: Function ZDefaultSystemCodePage : Word
10876: Function ZCompatibleCodePages( const CP1, CP2 : Word) : Boolean
10877:
10878:
10879: procedure SIRegister_BoldComUtils(CL: TPSPPascalCompiler);
10880: begin
10881:   ('RPC_C_AUTHN_LEVEL_DEFAULT','LongInt'( 0 );
10882:   ('RPC_C_AUTHN_LEVEL_NONE','LongInt'( 1 );
10883:   ('RPC_C_AUTHN_LEVEL_CONNECT','LongInt'( 2 );
10884:   ('RPC_C_AUTHN_LEVEL_CALL','LongInt'( 3 );
10885:   ('RPC_C_AUTHN_LEVEL_PKT','LongInt'( 4 );
10886:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY','LongInt'( 5 );
10887:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY','LongInt'( 6 );
10888:   {'alDefault', '1 RPC_C_AUTHN_LEVEL_DEFAULT';
10889:   ('alNone', '2 RPC_C_AUTHN_LEVEL_NONE';
10890:   ('alConnect', '3 RPC_C_AUTHN_LEVEL_CONNECT';
10891:   ('alCall', '4 RPC_C_AUTHN_LEVEL_CALL';
10892:   ('alPacket', '5 RPC_C_AUTHN_LEVEL_PKT';
10893:   ('alPacketIntegrity', '6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY';
10894:   ('alPacketPrivacy', '7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY);
10895:   ('RPC_C_IMP_LEVEL_DEFAULT','LongInt'( 0 );
10896:   ('RPC_C_IMP_LEVEL_ANONYMOUS','LongInt'( 1 );
10897:   ('RPC_C_IMP_LEVEL_IDENTIFY','LongInt'( 2 );
10898:   ('RPC_C_IMP_LEVEL_IMPERSONATE','LongInt'( 3 );
10899:   ('RPC_C_IMP_LEVEL_DELEGATE','LongInt'( 4 );
10900:   {'ilDefault', '0 RPC_C_IMP_LEVEL_DEFAULT;
10901:   ('ilAnonymous', '1 RPC_C_IMP_LEVEL_ANONYMOUS;
10902:   ('ilIdentiry', '2 RPC_C_IMP_LEVEL_IDENTIFY;
10903:   ('ilImpersonate', '3 RPC_C_IMP_LEVEL_IMPERSONATE;
10904:   ('ilDelegate', '4 RPC_C_IMP_LEVEL_DELEGATE);
10905:   ('EOAC_NONE','LongWord').SetUInt( $0 );
10906:   ('EOAC_DEFAULT','LongWord').SetUInt( $800 );
10907:   ('EOAC_MUTUAL_AUTH','LongWord').SetUInt( $1 );
10908:   ('EOAC_STATIC_CLOACKING','LongWord').SetUInt( $20 );
10909:   ('EOAC_DYNAMIC_CLOAKING','LongWord').SetUInt( $40 );
10910:   ('EOAC_ANY_AUTHORITY','LongWord').SetUInt( $80 );
10911:   ('RPC_C_AUTHN_WINNT','LongInt'( 10 );
10912:   ('RPC_C_AUTHNZ_NONE','LongInt'( 0 );
10913:   ('RPC_C_AUTHNZ_NAME','LongInt'( 1 );
10914:   ('RPC_C_AUTHNZ_DCE','LongInt'( 2 );
10915:   FindClass('TOBJECT'), 'EBoldCom
10916: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer ) : Boolean
10917: Function BoldMemoryToVariant( const Buffer, BufSize : Integer ) : OleVariant
10918: Function BoldStreamToVariant( Stream : TStream ) : OleVariant
10919: Function BoldStringsToVariant( Strings : TStrings ) : OleVariant
10920: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer ) : Integer
10921: Function BoldVariantToStream( V : OleVariant; Stream : TStream ) : Integer
10922: Function BoldVariantArrayOfArraysOfStringToStrings(V : OleVariant; Strings : TStrings) : Integer
10923: Function BoldVariantIsNamedValues( V : OleVariant ) : Boolean
10924: Function BoldCreateNamedValues(const Names:array of string;const Values:array of OleVariant):OleVariant;
10925: Function BoldGetNamedValue( Data : OleVariant; const Name : string ) : OleVariant
10926: Procedure BoldSetNamedValue( Data : OleVariant; const Name : string; Value : OleVariant )
10927: Function BoldCreateGUID : TGUID
10928: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HResult ) : Boolean
10929: Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IID:GUID;out Obj:variant;out Res:HRES):Bool;
10930: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint )
10931: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown );
10932: end;
10933:
10934: (*-----*)
10935: procedure SIRegister_BoldIsoDateTime(CL: TPSPPascalCompiler);
10936: begin

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10937: Function ParseISODate( s : string ) : TDateTime
10938: Function ParseISODateTime( s : string ) : TDateTime
10939: Function ParseISOTime( str : string ) : TDateTime
10940: end;
10941:
10942: (*-----*)
10943: procedure SIRegister_BoldGUIDUtils(CL: TPSPascalCompiler);
10944: begin
10945:   Function BoldCreateGUIDAsString( StripBrackets : Boolean ) : string
10946:   Function BoldCreateGUIDWithBracketsAsString : string
10947: end;
10948:
10949: procedure SIRegister_BoldFileHandler(CL: TPSPascalCompiler);
10950: begin
10951:   FindClass('TOBJECT'),TBoldFileHandler
10952:   FindClass('TOBJECT'),TBoldDiskFileHandler
10953:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
10954:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList )
10955:   SIRegister_TBoldfileHandler(CL);
10956:   SIRegister_TBoldDiskFileHandler(CL);
10957:   Procedure BoldCloseAllFilehandlers
10958:   Procedure BoldRemoveUnchangedFilesFromEditor
10959:   Function BoldfileHandlerList : TBoldObjectArray
10960:   Function BoldfileHandlerForFile(path,FileName:String; ModuleType:TBoldModuleType;ShowInEditor:Bool;
10961:   OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
10962: end;
10963:
10964: procedure SIRegister_BoldWinINet(CL: TPSPascalCompiler);
10965: begin
10966:   PCharArr', 'array of PChar
10967:   Function BoldInternetOpen(Agent:String;
10968:   AccessType:integer;Proxy:string;ProxyByPass:String;Flags:integer):ptr;
10969:   Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags,Context:cardinal):Pointer
10970:   Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumbOfBytesToRead:Card;var
10971:   NumberOfBytesRead:Card):LongBool;
10972:   Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
10973:   Function BoldHttpQueryInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
10974:   Cardinal; Reserved : Cardinal ) : LongBool
10975:   Function BoldInternetQueryDataAvailable( hFile : Pointer; var NumberOfBytesAvailable : Cardinal; flags :
10976:   Cardinal; Context : Cardinal ) : LongBool
10977:   Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
10978:   : PCharArr; Flags, Context : Cardinal) : Pointer
10979:   Function BoldHttpSendRequest(hRequest:ptr;Headers:string;Optional:Ptr;OptionalLength:Cardinal): LongBool
10980:   Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
10981:   Function BoldInternetConnect(hInet: INTERNET;ServerName:string; nServerPort:INTERNET_PORT;
10982:   Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):INTERNET
10983:   Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD;var lpUrlComponents:TURLComponents):BOOL;
10984: end;
10985:
10986: procedure SIRegister_BoldQueryUserDlg(CL: TPSPascalCompiler);
10987: begin
10988:   TBoldQueryResult', '( qrYesAll, qrYes, qrNo, qrNoAll )
10989:   SIRegister_TfrmBoldQueryUser(CL);
10990:   Function QueryUser( const Title, Query : string ) : TBoldQueryResult
10991: end;
10992:
10993: (*-----*)
10994: procedure SIRegister_BoldQueue(CL: TPSPascalCompiler);
10995: begin
10996:   //('befIsInDisplayList',' BoldElementFlag0 );
10997:   //('befStronglyDependedOfPrioritized',' BoldElementFlag1 );
10998:   //('befFollowerSelected',' BoldElementFlag2 );
10999:   FindClass('TOBJECT'),TBoldQueue
11000:   FindClass('TOBJECT'),TBoldQueueable
11001:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
11002:   SIRegister_TBoldQueueable(CL);
11003:   SIRegister_TBoldQueue(CL);
11004:   Function BoldQueueFinalized : Boolean
11005:   Function BoldInstalledQueue : TBoldQueue
11006: end;
11007:
11008: procedure SIRegister_Barcodes(CL: TPSPascalCompiler);
11009: begin
11010:   const mmPerInch,'Extended').setExtended( 25.4 );
11011:   TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial,
11012:   + ' bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
11013:   + 'Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
11014:   + 'bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
11015:   + 'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
11016:   TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )
11017:   TShowTextPosition', '( stpTopLeft, stpTopRight, stpTopCenter, st
11018:   + 'pBottomLeft, stpBottomRight, stpBottomCenter )
11019:   TCheckSumMethod', '( csmNone, csmModulo10 )
11020:   SIRegister_TAsBarcode(CL);
11021:   Function CheckSumModulo10( const data : string ) : string
11022:   Function ConvertMmToPixelsX( const Value : Double ) : Integer
11023:   Function ConvertMmToPixelsY( const Value : Double ) : Integer

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11019: Function ConvertInchToPixelsX( const Value : Double ) : Integer
11020: Function ConvertInchToPixelsY( const Value : Double ) : Integer
11021: end;
11022:
11023: procedure SIRegister_Geometry(CL: TPSCompiler); //OpenGL
11024: begin
11025:   THomogeneousByteVector', 'array[0..3] of Byte
11026:   THomogeneousWordVector', 'array[0..3] of Word
11027:   THomogeneousIntVector', 'array[0..3] of Integer
11028:   THomogeneousFltVector', 'array[0..3] of single
11029:   THomogeneousDblVector', 'array[0..3] of double
11030:   THomogeneousExtVector', 'array[0..3] of extended
11031:   TAffineByteVector', 'array[0..2] of Byte
11032:   TAffineWordVector', 'array[0..2] of Word
11033:   TAffineIntVector', 'array[0..2] of Integer
11034:   TAffineFltVector', 'array[0..2] of single
11035:   TAffineDblVector', 'array[0..2] of double
11036:   TAffineExtVector', 'array[0..2] of extended
11037:   THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
11038:   THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
11039:   THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
11040:   THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11041:   THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11042:   THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11043:   TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11044:   TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11045:   TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11046:   TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11047:   TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11048:   TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11049:   TMatrix4b', 'THomogeneousByteMatrix
11050:   TMatrix4w', 'THomogeneousWordMatrix
11051:   TMatrix4i', 'THomogeneousIntMatrix
11052:   TMatrix4f', 'THomogeneousFltMatrix
11053:   TMatrix4d', 'THomogeneousDblMatrix
11054:   TMatrix4e', 'THomogeneousExtMatrix
11055:   TMatrix3b', 'TAffineByteMatrix
11056:   TMatrix3w', 'TAffineWordMatrix
11057:   TMatrix3i', 'TAffineIntMatrix
11058:   TMatrix3f', 'TAffineFltMatrix
11059:   TMatrix3d', 'TAffineDblMatrix
11060:   TMatrix3e', 'TAffineExtMatrix
11061: //PMatrix', '^TMatrix // will not work
11062: TMatrixGL', 'THomogeneousFltMatrix
11063: THomogeneousMatrix', 'THomogeneousFltMatrix
11064: TAffineMatrix', 'TAffineFltMatrix
11065: TQuaternion', 'record Vector : TVector4f; end
11066: TRectangle', 'record Left : integer; Top : integer; Width : integer;
11067: +ger; Height : Integer; end
11068: TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11069: +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11070: +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11071: 'EPSILON', 'Extended').setExtended( 1E-100);
11072: 'EPSILON2', 'Extended').setExtended( 1E-50);
11073: Function VectorAddGL( V1, V2 : TVectorGL ) : TVectorGL
11074: Function VectorAffineAdd( V1, V2 : TAffineVector ) : TAffineVector
11075: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11076: Function VectorAffineDotProduct( V1, V2 : TAffineVector ) : Single
11077: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single ) : TAffineVector
11078: Function VectorAffineSubtract( V1, V2 : TAffineVector ) : TAffineVector
11079: Function VectorAngle( V1, V2 : TAffineVector ) : Single
11080: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single ) : TVectorGL
11081: Function VectorCrossProduct( V1, V2 : TAffineVector ) : TAffineVector
11082: Function VectorDotProduct( V1, V2 : TVectorGL ) : Single
11083: Function VectorLength( V : array of Single ) : Single
11084: Function VectorLerp( V1, V2 : TVectorGL; t : Single ) : TVectorGL
11085: Procedure VectorNegate( V : array of Single )
11086: Function VectorNorm( V : array of Single ) : Single
11087: Function VectorNormalize( V : array of Single ) : Single
11088: Function VectorPerpendicular( V, N : TAffineVector ) : TAffineVector
11089: Function VectorReflect( V, N : TAffineVector ) : TAffineVector
11090: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single)
11091: Procedure VectorScale( V : array of Single; Factor : Single)
11092: Function VectorSubtractGL( V1, V2 : TVectorGL ) : TVectorGL
11093: Function CreateRotationMatrixX( Sine, Cosine : Single ) : TMatrixGL
11094: Function CreateRotationMatrixY( Sine, Cosine : Single ) : TMatrixGL
11095: Function CreateRotationMatrixZ( Sine, Cosine : Single ) : TMatrixGL
11096: Function CreateScaleMatrix( V : TAffineVector ) : TMatrixGL
11097: Function CreateTranslationMatrix( V : TVectorGL ) : TMatrixGL
11098: Procedure MatrixAdjoint( var M : TMatrixGL )
11099: Function MatrixAffineDeterminant( M : TAffineMatrix ) : Single
11100: Procedure MatrixAffineTranspose( var M : TAffineMatrix )
11101: Function MatrixDeterminant( M : TMatrixGL ) : Single
11102: Procedure MatrixInvert( var M : TMatrixGL )
11103: Function MatrixMultiply( M1, M2 : TMatrixGL ) : TMatrixGL
11104: Procedure MatrixScale( var M : TMatrixGL; Factor : Single )
11105: Procedure MatrixTranspose( var M : TMatrixGL )
11106: Function QuaternionConjugate( Q : TQuaternion ) : TQuaternion
11107: Function QuaternionFromPoints( V1, V2 : TAffineVector ) : TQuaternion

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11108: Function QuaternionMultiply( qL, qR : TQuaternion ) : TQuaternion
11109: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11110: Function QuaternionToMatrix( Q : TQuaternion ) : TMatrixGL
11111: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector)
11112: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11113: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11114: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11115: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11116: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f;
11117: Function VectorTransform1( V : TVector3f; M : TMatrixGL ) : TVector3f;
11118: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11119: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11120: Function MakeAffineVector( V : array of Single ) : TAffineVector
11121: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion
11122: Function MakeVector( V : array of Single ) : TVectorGL
11123: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11124: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11125: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11126: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11127: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11128: Function ArcCosGL( X : Extended ) : Extended
11129: Function ArcSinGL( X : Extended ) : Extended
11130: Function ArcTan2GL( Y, X : Extended ) : Extended
11131: Function CoTanGL( X : Extended ) : Extended
11132: Function DegToRadGL( Degrees : Extended ) : Extended
11133: Function RadToDegGL( Radians : Extended ) : Extended
11134: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended )
11135: Function TanGL( X : Extended ) : Extended
11136: Function Turn( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11137: Function Turnl( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11138: Function Pitch( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11139: Function Pitchl( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11140: Function Roll( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11141: Function Rolll( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11142: end;
11143:
11144:
11145: procedure SIRegister_JclRegistry(CL: TPSPascalCompiler);
11146: begin
11147:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint
11148:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean
11149:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean
11150:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean
11151:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean
11152:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer
11153:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer
11154:   Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string
11155:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string
11156:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64
11157:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64
11158:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean )
11159:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer )
11160:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string )
11161:   Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 )
11162:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11163:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11164:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean
11165:   Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean
11166:   AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser'
11167:             +'RunOnce, ekServiceRun, ekServiceRunOnce )'
11168:             +AddClassN(FindClass('TOBJECT')),'EJclRegistryError'
11169:   Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean
11170:   Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean
11171:   Function RegSaveList(const RootKey:HKEY;const Key:string; const ListName:string;const
11172: Items:TStrings):Bool;
11173:   Function RegLoadList(const RootKey:HKEY;const Key:string;const ListName:string;const
11174: SaveTo:TStrings):Bool;
11175:   Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean
11176: end;
11177:
11178: procedure SIRegister_JclCOM(CL: TPSPascalCompiler);
11179: begin
11180:   CLSID_StdComponentCategoriesMgr', 'GUID '{0002E005-0000-0000-C000-000000000046}
11181:   CATID_SafeForInitialization', 'GUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4}
11182:   CATID_SafeForScripting', 'GUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4}
11183:   icMAX_CATEGORY_DESC_LEN', 'LongInt'( 128 );
11184:   FindClass('TOBJECT'), 'EInvalidParam
11185:   Function IsDCOMInstalled : Boolean
11186:   Function IsDCOMEabled : Boolean
11187:   Function GetDCOMVersion : string
11188:   Function GetMDACVersion : string
11189:   Function GetMDACVersion2 : string
11190:   Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11191: VarArray:OleVariant):HRESULT;
11192:   Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var
11193: VarArray:OleVariant):HRESULT;
11194:   Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11195: VarArray:OleVariant):HRESULT;
11196:   Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var
11197: VarArray:OleVariant):HRESULT;
11198:   Function MarshalInterMachineInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11199: VarArray:OleVariant):HRESULT;

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11193: Function CreateComponentCategory( const CatID : TGUID; const sDescription : string ) : HResult
11194: Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HResult
11195: Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HResult
11196: Function ResetIStreamToStart( Stream : IStream ) : Boolean
11197: Function SizeOfIStreamContents( Stream : IStream ) : Largeint
11198: Function StreamToVariantArray( Stream : TStream ) : OleVariant;
11199: Function StreamToVariantArray1( Stream : IStream ) : OleVariant;
11200: Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream );
11201: Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream );
11202: end;
11203:
11204:
11205: procedure SIRegister_JclUnitConv_mX2(CL: TPSPascalCompiler);
11206: begin
11207:   Const('CelsiusFreezingPoint','Extended').setExtended( 0.0 );
11208:   FahrenheitFreezingPoint,'Extended').setExtended( 32.0 );
11209:   KelvinFreezingPoint','Extended').setExtended( 273.15 );
11210:   CelsiusAbsoluteZero','Extended').setExtended( - 273.15 );
11211:   FahrenheitAbsoluteZero','Extended').setExtended( - 459.67 );
11212:   KelvinAbsoluteZero','Extended').setExtended( 0.0 );
11213:   DegPerCycle','Extended').setExtended( 360.0 );
11214:   DegPerGrad','Extended').setExtended( 0.9 );
11215:   DegPerRad','Extended').setExtended( 57.295779513082320876798154814105 );
11216:   GradPerCycle','Extended').setExtended( 400.0 );
11217:   GradPerDeg','Extended').setExtended( 1.11111111111111111111111111111111 );
11218:   GradPerRad','Extended').setExtended( 63.661977236758134307553505349006 );
11219:   RadPerCycle','Extended').setExtended( 6.283185307179586476925286766559 );
11220:   RadPerDeg','Extended').setExtended( 0.017453292519943295769236907684886 );
11221:   RadPerGrad','Extended').setExtended( 0.01570796326794896192313216916398 );
11222:   CyclePerDeg','Extended').setExtended( 0.0027777777777777777777777777777777 );
11223:   CyclePerGrad','Extended').setExtended( 0.0025 );
11224:   CyclePerRad','Extended').setExtended( 0.15915494309189533576888376337251 );
11225:   ArcMinutesPerDeg','Extended').setExtended( 60.0 );
11226:   ArcSecondsPerArcMinute','Extended').setExtended( 60.0 );
11227:   Function HowAOneLinerCanBiteYou( const Step, Max : Longint ) : Longint
11228:   Function MakePercentage( const Step, Max : Longint ) : Longint
11229:   Function CelsiusToKelvin( const T : double ) : double
11230:   Function CelsiusToFahrenheit( const T : double ) : double
11231:   Function KelvinToCelsius( const T : double ) : double
11232:   Function KelvinToFahrenheit( const T : double ) : double
11233:   Function FahrenheitToCelsius( const T : double ) : double
11234:   Function FahrenheitToKelvin( const T : double ) : double
11235:   Function CycleToDeg( const Cycles : double ) : double
11236:   Function CycleToGrad( const Cycles : double ) : double
11237:   Function CycleToRad( const Cycles : double ) : double
11238:   Function DegToCycle( const Degrees : double ) : double
11239:   Function DegToGrad( const Degrees : double ) : double
11240:   Function DegToRad( const Degrees : double ) : double
11241:   Function GradToCycle( const Grads : double ) : double
11242:   Function GradToDeg( const Grads : double ) : double
11243:   Function GradToRad( const Grads : double ) : double
11244:   Function RadToCycle( const Radians : double ) : double
11245:   Function RadToDeg( const Radians : double ) : double
11246:   Function RadToGrad( const Radians : double ) : double
11247:   Function DmsToDeg( const D, M : Integer; const S : double ) : double
11248:   Function DmsToRad( const D, M : Integer; const S : double ) : double
11249:   Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double )
11250:   Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal ) : string
11251:   Procedure CartesianToPolar( const X, Y : double; out R, Phi : double )
11252:   Procedure PolarToCartesian( const R, Phi : double; out X, Y : double )
11253:   Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double )
11254:   Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double )
11255:   Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double )
11256:   Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double )
11257:   Function CmToInch( const Cm : double ) : double
11258:   Function InchToCm( const Inch : double ) : double
11259:   Function FeetToMetre( const Feet : double ) : double
11260:   Function MetreToFeet( const Metre : double ) : double
11261:   Function YardToMetre( const Yard : double ) : double
11262:   Function MetreToYard( const Metre : double ) : double
11263:   Function NmToKm( const Nm : double ) : double
11264:   Function KmToNm( const Km : double ) : double
11265:   Function KmToSm( const Km : double ) : double
11266:   Function SmToKm( const Sm : double ) : double
11267:   Function LitreToGalUs( const Litre : double ) : double
11268:   Function GalUsToLitre( const GalUs : double ) : double
11269:   Function GalUsToGalCan( const GalUs : double ) : double
11270:   Function GalCanToGalUs( const GalCan : double ) : double
11271:   Function GalUsToGalUk( const GalUs : double ) : double
11272:   Function GalUkToGalUs( const GalUk : double ) : double
11273:   Function LitreToGalCan( const Litre : double ) : double
11274:   Function GalCanToLitre( const GalCan : double ) : double
11275:   Function LitreToGalUk( const Litre : double ) : double
11276:   Function GalUkToLitre( const GalUk : double ) : double
11277:   Function KgToLb( const Kg : double ) : double
11278:   Function LbToKg( const Lb : double ) : double
11279:   Function KgToOz( const Kg : double ) : double
11280:   Function OzToKg( const Oz : double ) : double
11281:   Function CwtUsToKg( const Cwt : double ) : double

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11282: Function CwtUkToKg( const Cwt : double) : double
11283: Function KaratToKg( const Karat : double) : double
11284: Function KgToCwtUs( const Kg : double) : double
11285: Function KgToCwtUk( const Kg : double) : double
11286: Function KgToKarat( const Kg : double) : double
11287: Function KgToSton( const Kg : double) : double
11288: Function KgToLton( const Kg : double) : double
11289: Function StonToKg( const STon : double) : double
11290: Function LtonToKg( const Lton : double) : double
11291: Function QrUsToKg( const Qr : double) : double
11292: Function QrUkToKg( const Qr : double) : double
11293: Function KgToQrUs( const Kg : double) : double
11294: Function KgToQrUk( const Kg : double) : double
11295: Function PascalToBar( const Pa : double) : double
11296: Function PascalToAt( const Pa : double) : double
11297: Function PascalToTorr( const Pa : double) : double
11298: Function BarToPascal( const Bar : double) : double
11299: Function AtToPascal( const At : double) : double
11300: Function TorrToPascal( const Torr : double) : double
11301: Function KnotToMs( const Knot : double) : double
11302: Function HpElectricToWatt( const HpE : double) : double
11303: Function HpMetricToWatt( const HpM : double) : double
11304: Function MsToKnot( const ms : double) : double
11305: Function WattToHpElectric( const W : double) : double
11306: Function WattToHpMetric( const W : double) : double
11307: function getBigPI: string; //PI of 1000 numbers
11308:
11309: procedure SIRegister_devcutils(CL: TPSPPascalCompiler);
11310: begin
11311:   Function CDExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11312:   Procedure CDCopyFile( const FileName, DestName : string)
11313:   Procedure CDMoveFile( const FileName, DestName : string)
11314:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11315:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11316:   Function CDGetTempDir : string
11317:   Function CDGetFileSize( FileName : string) : longint
11318:   Function GetfileTime( FileName : string) : longint
11319:   Function GetShortName( FileName : string) : string
11320:   Function GetFullName( FileName : string) : string
11321:   Function WinReboot : boolean
11322:   Function WinDir : string
11323:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11324:   Function Runfile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11325:   Function devExecutor : TdevExecutor
11326: end;
11327:
11328: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11329: begin
11330:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7 );
11331:   Procedure Associate( Index : integer)
11332:   Procedure UnAssociate( Index : integer)
11333:   Function IsAssociated( Index : integer) : boolean
11334:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11335:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp, IcoNum: string)
11336:   Procedure RegisterDEServer( const filetype, verb, topic, servername, macro : string)
11337:   procedure RefreshIcons;
11338:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11339:   function MergColor(Colors: Array of TColor): TColor;
11340:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11341:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11342:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11343:   function GetInverseColor(AColor: TColor): TColor;
11344:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11345:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer; ShadowColor: TColor);
11346:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11347:   Procedure GetSystemMenuFont(Font: TFont);
11348: end;
11349:
11350: //*****unit uPSI_JvHLParse;*****
11351: function IsStringConstant(const St: string): Boolean;
11352: function IsIntConstant(const St: string): Boolean;
11353: function IsRealConstant(const St: string): Boolean;
11354: function IsIdentifier(const ID: string): Boolean;
11355: function GetValue(const St: string): string;
11356: procedure ParseString(const S: string; Ss: TStrings);
11357: function IsStringConstantW(const St: WideString): Boolean;
11358: function IsIntConstantW(const St: WideString): Boolean;
11359: function IsRealConstantW(const St: WideString): Boolean;
11360: function IsIdentifierW(const ID: WideString): Boolean;
11361: function GetValueW(const St: WideString): WideString;
11362: procedure ParseStringW(const S: WideString; Ss: TStrings);
11363:
11364:
11365: //*****unit uPSI_JclMap;*****
11366:
11367: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11368: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean

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11369: Function JclSimpleBringUpSendMailDialog( const ASubject, ABody:string; const
11370:   AAttach:TFileName; AParentWND:HWND ):Bool
11371: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11372: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11373: procedure SIRегистer_IdNTLM(CL: TPSPascalCompiler);
11374: begin
11375:   //'Pdes_key_schedule', '^des_key_schedule // will not work
11376:   Function BuildType1Message( ADomain, AHost : String ) : String
11377:   Function BuildType3Message( ADomain, AHost, AUsername:WideString; APassword, ANonce:String ):String
11378:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIdAuthenticationClass )
11379:   Function FindAuthClass( AuthName : String ) : TIdAuthenticationClass
11380:   GBase64CodeTable', 'string'ABCDEFHJKLNMOPQRSTUVWXYZabcdeghijklmnopqrstuvwxyz0123456789+
11381:   GXXECodeTable', 'string'+0123456789ABCDEFHJKLNMOPQRSTUVWXYZabcdeghijklmnopqrstuvwxyz
11382:   GUUECodeTable', 'string`!#$%&'()*)+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_
11383: end;
11384:
11385: procedure SIRегистer_WDOSocketUtils(CL: TPSPascalCompiler);
11386: begin
11387:   ('IpAny','LongWord').SetUInt( $00000000 );
11388:   IpLoopBack', 'LongWord').SetUInt( $7F000001 );
11389:   IpBroadcast', 'LongWord').SetUInt( $FFFFFFFF );
11390:   IpNone', 'LongWord').SetUInt( $FFFFFFFF );
11391:   PortAny', 'LongWord($0000);
11392:   SocketMaxConnections', 'LongInt'( 5 );
11393:   TIPAddr', 'LongWord
11394:   TIPRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11395:   Function HostToNetLong( HostLong : LongWord ) : LongWord
11396:   Function HostToNetShort( HostShort : Word ) : Word
11397:   Function NetToHostLong( NetLong : LongWord ) : LongWord
11398:   Function NetToHostShort( NetShort : Word ) : Word
11399:   Function StrToIp( Ip : string ) : TIPAddr
11400:   Function IpToStr( Ip : TIPAddr ) : string
11401: end;
11402:
11403: (*-----*)
11404: procedure SIRегистer_ALSMTPCClient(CL: TPSPascalCompiler);
11405: begin
11406:   TA1SmtpClientAuthType', '( AlsmtcpClientAuthNone, alsmtcpClientAut'
11407:   + 'hPlain, AlsmtcpClientAuthLogin, AlsmtcpClientAuthCramMD5, AlsmtcpClientAuthCr'
11408:   + 'amShal, AlsmtcpClientAuthAutoSelect )
11409:   TA1SmtpClientAuthTypeSet', 'set of TA1SmtpClientAuthType
11410:   SIRегистer_TA1SmtpClient(CL);
11411: end;
11412:
11413: procedure SIRегистer_WDOSPlcUtils(CL: TPSPascalCompiler);
11414: begin
11415:   'TBitNo', 'Integer
11416:   TStByteNo', 'Integer
11417:   TStationNo', 'Integer
11418:   TInOutNo', 'Integer
11419:   TIO', '( EE, AA, NE, NA )
11420:   TBitSet', 'set of TBitNo
11421:   TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11422:   TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11423:   TBitAddr', 'LongInt
11424:   TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11425:   TByteAddr', 'SmallInt
11426:   TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11427:   Function BitAddr(aIo: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11428:   Function BusBitAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStatByteNo:TStatByteNo;aBitNo:TBitNo):TBitAddr;
11429:   Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var
11430:   aBitNo:TBitNo);
11431:   Function BitAddrToStr( Value : TBitAddr ) : string
11432:   Function StrToBitAddr( const Value : string ) : TBitAddr
11433:   Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11434:   Function BusByteAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStatByteNo:TStatByteNo;aBitNo:TBitNo):TByteAddr
11435:   Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11436:   Function ByteAddrToStr( Value : TByteAddr ) : string
11437:   Function StrToByteAddr( const Value : string ) : TByteAddr
11438:   Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11439:   Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )
11440:   Function InOutStateToStr( State : TInOutState ) : string
11441:   Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11442:   Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11443: end;
11444: procedure SIRегистer_WDOSTimers(CL: TPSPascalCompiler);
11445: begin
11446:   TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048,
11447:   +if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11448:   DpmiPmVector', 'Int64
11449:   'DInterval', 'LongInt'( 1000 );
11450:   //'Enabled', 'Boolean')BoolToStr( True );
11451:   'DIntFreq', 'string' if64
11452:   //'DMessages', 'Boolean if64';
11453:   SIRегистer_TwdxCustomTimer(CL);
11454:   SIRегистer_TwdxTimer(CL);
11455:   SIRегистer_TwdxRtcTimer(CL);

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11456:  SIRegister_TCustomIntTimer(CL);
11457:  SIRegister_TIntTimer(CL);
11458:  SIRegister_TRtcIntTimer(CL);
11459:  Function RealNow : TDateTime
11460:  Function MsToDateTime( Millisecond : LongInt ) : TDateTime
11461:  Function DateTimeToMs( Time : TDateTime ) : LongInt
11462: end;
11463;
11464: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11465: begin
11466:  TIIdSyslogPRI', 'Integer
11467:  TIIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11468:    + 'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11469:    + 'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11470:    + 'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11471:    + 'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11472:  TIIdSyslogSeverity', '(slEmergency, slAlert, slCritical, slError, slWarning, slNotice, slInformational, slDebug)
11473:  SIRegister_TIIdSysLogMsgPart(CL);
11474:  SIRegister_TIIdSysLogMessage(CL);
11475:  Function FacilityToString( AFac : TIIdSyslogFacility ) : string
11476:  Function SeverityToString( ASec : TIIdSyslogSeverity ) : string
11477:  Function NoToSeverity( ASev : Word ) : TIIdSyslogSeverity
11478:  Function logSeverityToNo( ASev : TIIdSyslogSeverity ) : Word
11479:  Function NoToFacility( AFac : Word ) : TIIdSyslogFacility
11480:  Function logFacilityToNo( AFac : TIIdSyslogFacility ) : Word
11481: end;
11482;
11483: procedure SIRegister_TextUtils(CL: TPSPascalCompiler);
11484: begin
11485:  'UWhitespace', 'String' '(?:\s*)
11486:  Function StripSpaces( const AText : string ) : string
11487:  Function CharCount( const AText : string; Ch : Char ) : Integer
11488:  Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11489:  Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11490: end;
11491;
11492;
11493: procedure SIRegister_ExtPascalUtils(CL: TPSPascalCompiler);
11494: begin
11495:  ExtPascalVersion', 'String' '0.9.8
11496:  AddTypeS('TBrowser', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11497:    + 'Opera, brKonqueror, brMobileSafari )
11498:  AddTypeS('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11499:  AddTypeS('TExtProcedure', 'Procedure
11500:  Function DetermineBrowser( const UserAgentStr : string ) : TBrowser
11501:  Function ExtExtract(const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool):bool;
11502:  Function ExtExplode( Delim : char; const S : string; Separator : char ) : TStringList
11503:  Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11504:  Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11505:  Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11506:  Function StrToJS( const S : string; UseBR : boolean ) : string
11507:  Function CaseOf( const S : string; const Cases : array of string ) : integer
11508:  Function RCaseOf( const S : string; const Cases : array of string ) : integer
11509:  Function EnumToJSString( TypeInfo : PTTypeInfo; Value : integer ) : string
11510:  Function SetPaddings( Top:integer;Right:int;Bottom:intr;Left:integer;CSSUnit:TCSSUnit;Header:bool ):string;
11511:  Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool): string;
11512:  Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11513:  Function IsUpperCase( S : string ) : boolean
11514:  Function BeautifyJS( const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11515:  Function BeautifyCSS( const AStyle : string ) : string
11516:  Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11517:  Function JSDateToDate( JSDate : string ) : TDateTime
11518: end;
11519;
11520: procedure SIRegister_JclShell(CL: TPSPascalCompiler);
11521: begin
11522:  TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11523:  TSHDeleteOptions', 'set of TSHDeleteOption
11524:  TSHRenameOption', '( roSilent, roRenameOnCollision )
11525:  TSHRenameOptions', 'set of TSHRenameOption
11526:  Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11527:  Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean
11528:  Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11529:  TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11530:  TEnumFolderFlags', 'set of TEnumFolderFlag
11531:  TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11532:    +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11533:    +'IEnumIdList; Folder : IShellFolder; end
11534:  Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11535:  Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11536:  Procedure SHEnumFolderClose( var F : TEnumFolderRec)
11537:  Function SHEnumFolderNext( var F : TEnumFolderRec ) : Boolean
11538:  Function GetSpecialFolderLocation( const Folder : Integer ) : string
11539:  Function DisplayPropDialog( const Handle : HWND; const FileName : string ) : Boolean;
11540:  Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList ) : Boolean;
11541:  Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint ) : Boolean
11542:  Function OpenFolder( const Path : string; Parent : HWND ) : Boolean
11543:  Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11544:  Function SHReallocMem( var P : Pointer; Count : Integer ) : Boolean

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11545: Function SHAllocMem( out P : Pointer; Count : Integer) : Boolean
11546: Function SHGetMem( var P : Pointer; Count : Integer) : Boolean
11547: Function SHFreeMem( var P : Pointer) : Boolean
11548: Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder) : PIItemIdList
11549: Function PathToPidl( const Path : string; Folder : IShellFolder) : PIItemIdList
11550: Function PathTopidlBind( const FileName : string; out Folder : IShellFolder) : PIItemIdList
11551: Function PidlBindToParent(const IdList:PIItemIdList;out Folder:IShellFolder;out Last:PIItemIdList):Bool;
11552: Function PidlCompare( const Pidl1, Pidl2 : PIItemIdList) : Boolean
11553: Function PidlCopy( const Source : PIItemIdList; out Dest : PIItemIdList) : Boolean
11554: Function PidlFree( var IdList : PIItemIdList) : Boolean
11555: Function PidlGetDepth( const Pidl : PIItemIdList) : Integer
11556: Function PidlGetLength( const Pidl : PIItemIdList) : Integer
11557: Function PidlGetNext( const Pidl : PIItemIdList) : PIItemIdList
11558: Function PidlToPath( Idlist : PIItemIdList) : string
11559: Function StrRetFreeMem( StrRet : TStrRet) : Boolean
11560: Function StrRetToString( IdList : PIItemIdList; StrRet : TStrRet; Free : Boolean) : string
11561: PShellLink', '^TShellLink // will not work'
11562: TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11563: +'ingDirectory : string; IdList : PIItemIdList; Target : string; Description '
11564: +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11565: Procedure ShellLinkFree( var Link : TShellLink)
11566: Function ShellLinkResolve( const FileName : string; var Link : TShellLink) : HRESULT
11567: Function ShellLinkCreate( const Link : TShellLink; const FileName : string) : HRESULT
11568: Function ShellLinkCreateSystem(const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11569: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon) : Boolean
11570: Function SHDllGetVersion( const FileName : string; var Version : TDllVersionInfo) : Boolean
11571: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal) : HICON
11572: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean) : Boolean
11573: Function OverlayIconShortCut( var Large, Small : HICON) : Boolean
11574: Function OverlayIconShared( var Large, Small : HICON) : Boolean
11575: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PIItemIdList) : string
11576: Function ShellExecEx(const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int):Bool;
11577: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int):Bool;
11578: Function ShellExecAndWait(const FileName:string;const Params: string;const Verb:string;CmdShow:Int):Bool;
11579: Function ShellOpenAs( const FileName : string) : Boolean
11580: Function ShellRasDial( const EntryName : string) : Boolean
11581: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11582: Function GetFileNameIcon( const FileName : string; Flags : Cardinal) : HICON
11583: TJclFileExeType', ('etError, etMsDos, etWin16, etWin32Gui, etWin32Con ')
11584: Function GetFileExeType( const FileName : TFileName) : TJclFileExeType
11585: Function ShellFindExecutable( const FileName, DefaultDir : string) : string
11586: Procedure keybd_event( bVk : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD)
11587: Function OemKeyScan( wOemChar : Word) : DWORD
11588: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD)
11589: end;
11590:
11591: procedure SIRRegister_cXMLFunctions(CL: TPPSPascalCompiler);
11592: begin
11593: xmlVersion', 'String '1.0 FindClass('TOBJECT'), 'Exml
11594: //Function xmlValidChar( const Ch : AnsiChar) : Boolean;
11595: Function xmlValidChar1( const Ch : UCS4Char) : Boolean;
11596: Function xmlValidChar2( const Ch : WideChar) : Boolean;
11597: Function xmlIsSpaceChar( const Ch : WideChar) : Boolean;
11598: Function xmlIsLetter( const Ch : WideChar) : Boolean;
11599: Function xmlIsDigit( const Ch : WideChar) : Boolean;
11600: Function xmlIsNameStartChar( const Ch : WideChar) : Boolean;
11601: Function xmlIsNameChar( const Ch : WideChar) : Boolean;
11602: Function xmlIsPubidChar( const Ch : WideChar) : Boolean;
11603: Function xmlValidName( const Text : UnicodeString) : Boolean;
11604: //xmlSpace', 'Char #$20 or #$9 or #$D or #$A';
11605: //Function xmlSkipSpace( var P : PWideChar) : Boolean;
11606: //Function xmlSkipEq( var P : PWideChar) : Boolean;
11607: //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString) : Boolean;
11608: //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer)
11609: : TUnicodeCodecClass
11610: Function xmlResolveEntityReference( const RefName : UnicodeString) : WideChar;
11611: Function xmlTag( const Tag : UnicodeString) : UnicodeString;
11612: Function xmlEndTag( const Tag : UnicodeString) : UnicodeString;
11613: Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString) : UnicodeString;
11614: Procedure xmlSafeTextInPlace( var Txt : UnicodeString);
11615: Function xmlSafeText( const Txt : UnicodeString) : UnicodeString;
11616: Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer):UnicodeString;
11617: Function xmlTabIndent( const IndentLevel : Integer) : UnicodeString;
11618: Function xmlComment( const Comment : UnicodeString) : UnicodeString;
11619: Procedure SelfTestcXMLFunctions;
11620: end;
11621:
11622: (*-----*)
11623: procedure SIRRegister_DepWalkUtils(CL: TPPSPascalCompiler);
11624: begin
11625: Function AWaitCursor : IUnknown;
11626: Function ChangeCursor( NewCursor : TCursor) : IUnknown;
11627: Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean);
11628: Function YesNo( const ACaption, AMsg : string) : boolean;
11629: Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings);
11630: Function GetBorlandLibPath( Version : integer; ForDelphi : boolean) : string;
11631: Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean) : string;
11632: Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings);

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11633: Procedure GetSystemPaths( Strings : TStrings)
11634: Procedure MakeEditNumeric( EditHandle : integer)
11635: end;
11636:
11637: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11638: begin
11639:   AddTypeS('TVideoCodec', '(vcUnknown,vcRGB,vcUYU2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11640:   'BI_YUY2','LongWord( $32595559);
11641:   'BI_UYVY','LongWord').SetUInt( $59565955);
11642:   'BI_BTYUV','LongWord').SetUInt( $50313459);
11643:   'BI_YVU9','LongWord').SetUInt( $39555659);
11644:   'BI_YUV12','LongWord( $30323449);
11645:   'BI_Y8','LongWord').SetUInt( $20203859);
11646:   'BI_Y211','LongWord').SetUInt( $31313259);
11647:   Function BICompressionToVideoCodec( Value : DWord) : TVideoCodec
11648:   Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11649: end;
11650:
11651: (*-----*)
11652: procedure SIRegister_AviCap(CL: TPSPascalCompiler);
11653: begin
11654:   'WM_USER','LongWord').SetUInt( $0400);
11655:   'WM_CAP_START','LongWord').SetUInt($0400);
11656:   'WM_CAP_END','longword').SetUInt($0400+85);
11657: //WM_CAP_START+ 85
11658: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11659: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt) : LongInt
11660: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt) : LongInt
11661: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt) : LongInt
11662: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt) : LongInt
11663: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt) : LongInt
11664: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt) : LongInt
11665: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt) : LongInt
11666: Function capSetUserData( hwnd : THandle; lUser : LongInt) : LongInt
11667: Function capGetUserData( hwnd : THandle) : LongInt
11668: Function capDriverConnect( hwnd : THandle; I : Word) : LongInt
11669: Function capDriverDisconnect( hwnd : THandle) : LongInt
11670: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11671: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word) : LongInt
11672: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11673: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt) : LongInt
11674: Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11675: Function capFileAlloc( hwnd : THandle; dwSize : LongInt) : LongInt
11676: Function capFileSaveAs( hwnd : THandle; szName : LongInt) : LongInt
11677: Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : Longint) : LongInt
11678: Function capFileSaveDIB( hwnd : THandle; szName : LongInt) : LongInt
11679: Function capEditCopy( hwnd : THandle) : LongInt
11680: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11681: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11682: Function capGetAudioFormatSize( hwnd : THandle) : LongInt
11683: Function capDlgVideoFormat( hwnd : THandle) : LongInt
11684: Function capDlgVideoSource( hwnd : THandle) : LongInt
11685: Function capDlgVideoDisplay( hwnd : THandle) : LongInt
11686: Function capDlgVideoCompression( hwnd : THandle) : LongInt
11687: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11688: Function capGetVideoFormatSize( hwnd : THandle) : LongInt
11689: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11690: Function capPreview( hwnd : THandle; f : Word) : LongInt
11691: Function capPreviewRate( hwnd : THandle; wMS : Word) : LongInt
11692: Function capOverlay( hwnd : THandle; f : Word) : LongInt
11693: Function capPreviewScale( hwnd : THandle; f : Word) : LongInt
11694: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11695: Function capSetScrollPos( hwnd : THandle; lpP : LongInt) : LongInt
11696: Function capGrabFrame( hwnd : THandle) : LongInt
11697: Function capGrabFrameNoStop( hwnd : THandle) : LongInt
11698: Function capCaptureSequence( hwnd : THandle) : LongInt
11699: Function capCaptureSequenceNoFile( hwnd : THandle) : LongInt
11700: Function capCaptureStop( hwnd : THandle) : LongInt
11701: Function capCaptureAbort( hwnd : THandle) : LongInt
11702: Function capCaptureSingleFrameOpen( hwnd : THandle) : LongInt
11703: Function capCaptureSingleFrameClose( hwnd : THandle) : LongInt
11704: Function capCaptureSingleFrame( hwnd : THandle) : LongInt
11705: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11706: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11707: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt) : LongInt
11708: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11709: Function capPaletteOpen( hwnd : THandle; szName : LongInt) : LongInt
11710: Function capPaletteSave( hwnd : THandle; szName : Longint) : LongInt
11711: Function capPalettePaste( hwnd : THandle) : LongInt
11712: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt) : LongInt
11713: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt) : LongInt
11714: //PCapDriverCaps', '^TCapDriverCaps // will not work
11715: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11716:   +'; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11717:   +'y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hvid'
11718:   +'eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11719: //PCapStatus', 'TCapStatus // will not work
11720: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11721:   +'fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOINT'

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11722: + 'T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11723: +'OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11724: +'rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11725: +'ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD;' +
11726: +' wNumAudioAllocated : WORD; end
11727: //PCaptureParms', '^TCaptureParms // will not work
11728: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11729: +'UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'
11730: +'ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11731: +'deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11732: +'Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11733: +'ed : WORD; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11734: +'wMCISearchBar : DWORD; dwMCISearchTime : DWORD; fStepCaptureAt2x : BOOL; wSt'
11735: +'epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11736: +'he : BOOL; AVStreamMaster : WORD; end
11737: // PCapInfoChunk', '^TCapInfoChunk // will not work
11738: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11739: 'CONTROLCALLBACK_PREROLL','LongInt'( 1);
11740: 'CONTROLCALLBACK_CAPURING','LongInt'( 2);
11741: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer ) : THandle
11742: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11743: 'IDS_CAP_BEGIN','LongInt'( 300);
11744: 'IDS_CAP_END','LongInt'( 301);
11745: 'IDS_CAP_INFO','LongInt'( 401);
11746: 'IDS_CAP_OUTOFCMEM','LongInt'( 402);
11747: 'IDS_CAP_FILEEXISTS','LongInt'( 403);
11748: 'IDS_CAP_ERRORPALOPEN','LongInt'( 404);
11749: 'IDS_CAP_ERRORPALSEAVE','LongInt'( 405);
11750: 'IDS_CAP_ERRORDIBSAVE','LongInt'( 406);
11751: 'IDS_CAP_DEFAVIEEXT','LongInt'( 407);
11752: 'IDS_CAP_DEFFPALEXT','LongInt'( 408);
11753: 'IDS_CAP_CANTOPEN','LongInt'( 409);
11754: 'IDS_CAP_SEQ_MSGSTART','LongInt'( 410);
11755: 'IDS_CAP_SEQ_MSGSTOP','LongInt'( 411);
11756: 'IDS_CAP_VIDEITERR','LongInt'( 412);
11757: 'IDS_CAP_READONLYFILE','LongInt'( 413);
11758: 'IDS_CAP_WRITEERROR','LongInt'( 414);
11759: 'IDS_CAP_NODISKSPACE','LongInt'( 415);
11760: 'IDS_CAP_SETFILESIZE','LongInt'( 416);
11761: 'IDS_CAP_SAVEASPERCENT','LongInt'( 417);
11762: 'IDS_CAP_DRIVER_ERROR','LongInt'( 418);
11763: 'IDS_CAP_WAVE_OPEN_ERROR','LongInt'( 419);
11764: 'IDS_CAP_WAVE_ALLOC_ERROR','LongInt'( 420);
11765: 'IDS_CAP_WAVE_PREPARE_ERROR','LongInt'( 421);
11766: 'IDS_CAP_WAVE_ADD_ERROR','LongInt'( 422);
11767: 'IDS_CAP_WAVE_SIZE_ERROR','LongInt'( 423);
11768: 'IDS_CAP_VIDEO_OPEN_ERROR','LongInt'( 424);
11769: 'IDS_CAP_VIDEO_ALLOC_ERROR','LongInt'( 425);
11770: 'IDS_CAP_VIDEO_PREPARE_ERROR','LongInt'( 426);
11771: 'IDS_CAP_VIDEO_ADD_ERROR','LongInt'( 427);
11772: 'IDS_CAP_VIDEO_SIZE_ERROR','LongInt'( 428);
11773: 'IDS_CAP_FILE_OPEN_ERROR','LongInt'( 429);
11774: 'IDS_CAP_FILE_WRITE_ERROR','LongInt'( 430);
11775: 'IDS_CAP_RECORDING_ERROR','LongInt'( 431);
11776: 'IDS_CAP_RECORDING_ERROR2','LongInt'( 432);
11777: 'IDS_CAP_AVIFILE_INIT_ERROR','LongInt'( 433);
11778: 'IDS_CAP_NO_FRAME_CAP_ERROR','LongInt'( 434);
11779: 'IDS_CAP_NO_PALETTE_WARN','LongInt'( 435);
11780: 'IDS_CAP_MCI_CONTROL_ERROR','LongInt'( 436);
11781: 'IDS_CAP_MCI_CANT_STEP_ERROR','LongInt'( 437);
11782: 'IDS_CAP_NO_AUDIO_CAP_ERROR','LongInt'( 438);
11783: 'IDS_CAP_AVIFILE_DRAWDIB_ERROR','LongInt'( 439);
11784: 'IDS_CAP_COMPRESSOR_ERROR','LongInt'( 440);
11785: 'IDS_CAP_AUDIO_DROP_ERROR','LongInt'( 441);
11786: 'IDS_CAP_STAT_LIVE_MODE','LongInt'( 500);
11787: 'IDS_CAP_STAT_OVERLAY_MODE','LongInt'( 501);
11788: 'IDS_CAP_STAT_CAP_INIT','LongInt'( 502);
11789: 'IDS_CAP_STAT_CAP_FINI','LongInt'( 503);
11790: 'IDS_CAP_STAT_PALETTE_BUILD','LongInt'( 504);
11791: 'IDS_CAP_STAT_OPTPAL_BUILD','LongInt'( 505);
11792: 'IDS_CAP_STAT_I_FRAMES','LongInt'( 506);
11793: 'IDS_CAP_STAT_L_FRAMES','LongInt'( 507);
11794: 'IDS_CAP_STAT_CAP_L_FRAMES','LongInt'( 508);
11795: 'IDS_CAP_STAT_CAP_AUDIO','LongInt'( 509);
11796: 'IDS_CAP_STAT_VIDEOCURRENT','LongInt'( 510);
11797: 'IDS_CAP_STAT_VIDEOAUDIO','LongInt'( 511);
11798: 'IDS_CAP_STAT_VIDEOONLY','LongInt'( 512);
11799: 'IDS_CAP_STAT_FRAMESDROPPED','LongInt'( 513);
11800: 'AVICAP32','String 'AVICAP32.dll
11801: end;
11802:
11803: procedure SIRegister_ALFcnnMisc(CL: TPSPascalCompiler);
11804: begin
11805:   Function AlBoolToInt( Value : Boolean ) : Integer
11806:   Function ALMediumPos( LTotal, LBorder, LObject : integer ) : Integer
11807:   Function AlIsValidEmail( const Value : AnsiString ) : boolean
11808:   Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime ) : TdateTime

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11809: Function ALInc( var x : integer; Count : integer ) : Integer
11810: function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11811: function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11812: procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11813: Function ALIsInteger(const S: AnsiString): Boolean;
11814: function ALIsDecimal(const S: AnsiString): boolean;
11815: Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11816: function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11817: function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11818: function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11819: function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11820: Function ALRandomStr1(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11821: Function ALRandomStr2(const aLength: Longint): AnsiString;
11822: Function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11823: Function ALRandomStrU2(const aLength: Longint): String;
11824: end;
11825:
11826: procedure SIRегистre_ALJSONDoc(CL: TPSPPascalCompiler);
11827: begin
11828: Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const
11829: aTrueStr: AnsiString; const aFalseStr : AnsiString)
11830:
11831: procedure SIRегистre_ALWindows(CL: TPSPPascalCompiler);
11832: begin
11833:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11834:     +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11835:     +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11836:     +'; ullAvailExtendedVirtual : Int64; end
11837:   TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11838: Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11839: Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11840:  'INVALID_SET_FILE_POINTER','LongInt'( WORD( - 1 ) );
11841:  'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt( $2 );
11842:  'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt( $1 );
11843:  'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt( $8 );
11844:  'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt( $4 );
11845: end;
11846:
11847: procedure SIRегистre_IPCThrd(CL: TPSPPascalCompiler);
11848: begin
11849:   SIRегистre_THandledObject(CL);
11850:   SIRегистre_TEvent(CL);
11851:   SIRегистre_TMutex(CL);
11852:   SIRегистre_TSharedMem(CL);
11853:   'TRACE_BUF_SIZE','LongInt'( 200 * 1024 );
11854:   'TRACE_BUFFER','String 'TRACE_BUFFER
11855:   'TRACE_MUTEX','String 'TRACE_MUTEX
11856:   //PTTraceEntry', '^TTraceEntry // will not work
11857:   SIRегистre_TIPCTracer(CL);
11858:   'MAX_CLIENTS','LongInt'( 6 );
11859:   'IPC TIMEOUT','LongInt'( 2000 );
11860:   'IPC BUFFER NAME','String 'BUFFER_NAME
11861:   'BUFFER_MUTEX NAME','String 'BUFFER_MUTEX
11862:   'MONITOR EVENT NAME','String 'MONITOR_EVENT
11863:   'CLIENT EVENT NAME','String 'CLIENT_EVENT
11864:   'CONNECT EVENT NAME','String 'CONNECT_EVENT
11865:   'CLIENT DIR NAME','String 'CLIENT_DIRECTORY
11866:   'CLIENT DIR MUTEX','String 'DIRECTORY_MUTEX
11867:   FindClass('TOBJECT'),EMonitorActive
11868:   FindClass('TOBJECT'),TIPCThread
11869:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11870:     +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11871:     +'ach, evClientSwitch, evClientSignal, evClientExit )
11872:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11873:   TClientFlags', 'set of TClientFlag
11874:   //PEventData', '^TEventData // will not work
11875:   TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11876:     +'lag; Flags : TClientFlags; end
11877:   TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean )
11878:   TDirUpdateEvent', 'Procedure ( Sender : TIPCThread )
11879:   TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData )
11880:   //PIPCEventInfo', '^TIPCEventInfo // will not work
11881:   TIPCEventInfo', 'record FID:Integer;FKind:TEventKind;FData:TEventData;end
11882:   SIRегистre_TIPCEvent(CL);
11883:   //PClientDirRecords', '^TClientDirRecords // will not work
11884:   SIRегистre_TClientDirectory(CL);
11885:   TIPCState', '( stInactive, stDisconnected, stConnected )
11886:   SIRегистre_TIPCThread(CL);
11887:   SIRегистre_TIPCMonitor(CL);
11888:   SIRегистre_TIPCCClient(CL);
11889:   Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11890:   end;
11891:
11892: (*-----*)
11893: procedure SIRегистre_ALGSMComm(CL: TPSPPascalCompiler);
11894: begin
11895:   SIRегистre_TALGSMComm(CL);
11896:   Function AlGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString

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11897: Procedure ALGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
AMessage:AnsiString);
11898: Function ALGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11899: Function ALGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
UseGreekAlphabet:Bool):Widestring;
11900: function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11901: end;
11902:
11903: procedure SIRегистер_ALHttpCommon(CL: TPSPascalCompiler);
11904: begin
11905:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11906:   TALHTTPProtocolVersion', '( HTTPPpv_1_0, HTTPPpv_1_1 )
11907:   TALHTTPMethod', '( HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete );
11908:   TIInternetScheme', 'integer
11909:   TALIPv6Binary', 'array[1..16] of Char;
11910: // TALIPv6Binary = array[1..16] of ansichar;
11911: // TIInternetScheme = Integer;
11912: SIRегистер_TALHTTPRequestHeader(CL);
11913: SIRегистер_TALHTTPCookie(CL);
11914: SIRегистер_TALHTTPCookieCollection(CL);
11915: SIRегистер_TALHTTPResponseHeader(CL);
11916: Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11917: Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11918: // Procedure ALEXtractHTTPFields(Separators,WhiteSpace, Quotes:TSysCharSet,
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11919: // Procedure ALEXtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11920: // Procedure ALEXtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11921: Function AlRemoveShemeFromUrl( aUrl : AnsiString ) : ansistring
11922: Function AlExtractShemeFromUrl( aUrl : AnsiString ) : TIInternetScheme
11923: Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11924: Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11925: Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11926: Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11927: Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11928: Function AlInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11929: Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
11930: Function AlRemoveAnchorFromUrl1( aUrl : AnsiString ) : AnsiString;
11931: Function AlCombineUrl( RelativeUrl, BaseUrl : AnsiString ) : AnsiString;
11932: Function AlCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
11933: Function ALGmtTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11934: Function ALDateToString( const aValue : TDateTime ) : AnsiString
11935: Function ALTryRFC822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
11936: Function ALRFC822StrToGMTDateTime( const s : AnsiString ) : TDateTime
11937: Function ALTryIPV4StrToNumeric( aIPV4Str : ansistring; var aIPV4Num : Cardinal ) : Boolean
11938: Function ALIPV4StrToNumeric( aIPV4 : ansistring ) : Cardinal
11939: Function ALNumericToIPV4Str( aIPV4 : Cardinal ) : ansistring
11940: Function ALZeroIPV6 : TALIPv6Binary
11941: Function ALTryIPV6StrToBinary( aIPV6Str : ansistring; var aIPV6Bin : TALIPv6Binary ) : Boolean
11942: Function ALIPV6StrTobinary( aIPV6 : ansistring ) : TALIPv6Binary
11943: Function ALBinaryToIPV6Str( aIPV6 : TALIPv6Binary ) : ansistring
11944: Function ALBinaryStrToIPV6Binary( aIPV6BinaryStr : ansistring ) : TALIPv6Binary
11945: end;
11946:
11947: procedure SIRегистер_ALFcнHTML(CL: TPSPascalCompiler);
11948: begin
11949:   Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
DecodeHTMLText:Bool;
11950:   Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11951:   Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
11952:   Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
11953:   Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
11954:   Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
useNumRef:bool):Ansistring);
11955:   Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
11956:   Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean) : AnsiString
11957:   Function ALUTF8JavascriptDecode( const Src : Ansistring ) : AnsiString
11958:   Procedure ALHideHTMLUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
11959:   Procedure ALCompactHTMLTagParams( TagParams : TALStrings )
11960: end;
11961:
11962: procedure SIRегистер_ALInternetMessageCommon(CL: TPSPascalCompiler);
11963: begin
11964:   SIRегистер_TALEMailHeader(CL);
11965:   SIRегистер_TALNewsArticleHeader(CL);
11966:   Function ALParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
decodeRealName:Bool):Ansistring;
11967:   Function ALExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
11968:   Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
11969:   Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
11970:   Function ALGenerateInternetMessageID : AnsiString;
11971:   Function ALGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
11972:   Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
11973:   Function ALDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):Ansistring;
11974: end;

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11975:
11976: (*-----*)
11977: procedure SIRegister_ALFcWinSock(CL: TPSPascalCompiler);
11978: begin
11979:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11980:   Function ALIPAddrToName( IPAddr : AnsiString) : AnsiString
11981:   Function ALgetLocalIPs : TALStrings
11982:   Function ALgetLocalHostName : AnsiString
11983: end;
11984:
11985: procedure SIRegister_ALFcCGI(CL: TPSPascalCompiler);
11986: begin
11987:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest (WebRequest : TALWebRequest; ServerVariables: TALStrings);
11988:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest (WebRequest: TALWebRequest; ServerVariables : TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11989:   Procedure AlCGIInitDefaultServerVariables( ServerVariables : TALStrings);
11990:   Procedure AlCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName, ScriptFileName:AnsiString;Url:AnsiStr;
11991:   Procedure AlCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11992:   Procedure AlCGIEexec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
11993:   Procedure AlCGIEexec1(ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString; WebRequest : TALIsapiRequest; overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString; +'overloadedRequestContentStream:Tstream;var ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
11994:   Procedure AlCGIEexec2(ScriptName,ScriptFileName,Url,X_REWRITE_URL, InterpreterFilename:AnsiString;WebRequest: TALIsapiRequest; var ResponseContentString : AnsiString; ResponseHeader : TALHTTPResponseHeader);
11995: end;
11996: begin
11997:
11998: procedure SIRegister_ALFcExecute(CL: TPSPascalCompiler);
11999: begin
12000:   TStartupInfoA', 'TStartupInfo
12001:   'SE_CREATE_TOKEN_NAME', 'String'( 'SeCreateTokenPrivilege
12002:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege
12003:   SE_LOCK_MEMORY_NAME', 'String'( 'SelockMemoryPrivilege
12004:   SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege
12005:   SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege
12006:   SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege
12007:   SE_TCB_NAME', 'String 'SeTcbPrivilege
12008:   SE_SECURITY_NAME', 'String 'SeSecurityPrivilege
12009:   SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege
12010:   SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege
12011:   SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege
12012:   SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege
12013:   SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege
12014:   SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege
12015:   SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege
12016:   SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege
12017:   SE_BACKUP_NAME', 'String 'SeBackupPrivilege
12018:   SE_RESTORE_NAME', 'String 'SeRestorePrivilege
12019:   SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege
12020:   SE_DEBUG_NAME', 'String 'SeDebugPrivilege
12021:   SE_AUDIT_NAME', 'String 'SeAuditPrivilege
12022:   SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege
12023:   SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege
12024:   SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege
12025:   SE_UNDOCK_NAME', 'String 'SeUndockPrivilege
12026:   SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege
12027:   SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege
12028:   SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege
12029:   Function AlGetEnvironmentString : AnsiString
12030:   Function ALWinExec32(const FileName,CurrentDir,
Environment:AnsiString;Instream:Tstream;OutStream:TStream):Dword;
12031:   Function ALWinExec321(const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
12032:   Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer) : DWORD
12033:   Function ALWinExecAndWait32V2(FileName : AnsiString; Visibility : integer) : DWORD
12034:   Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean) : Boolean
12035: end;
12036:
12037: procedure SIRegister_ALFcFile(CL: TPSPascalCompiler);
12038: begin
12039:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime):Boolean;
12040:   Function AlEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const RemoveEmptySubDirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime) : Boolean;
12041:   Function AlCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const FileNameMask : ansiString; const FailIfExists : Boolean) : Boolean
12042:   Function ALGetModuleName : ansistring
12043:   Function ALGetModuleFileNameWithoutExtension : ansistring
12044:   Function ALGetModulePath : ansiString
12045:   Function ALGetFileSize( const AFileName : ansistring) : int64
12046:   Function ALGetFileVersion( const AFileName : ansistring) : ansistring
12047:   Function ALGetFileCreationDateTime( const afileName : Ansistring) : TDateTime
12048:   Function ALGetFileLastWriteDateTime( const aFileName : Ansistring) : TDateTime
12049:   Function ALGetFileLastAccessDateTime( const aFileName : Ansistring) : TDateTime

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12050: Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime)
12051: Function ALIsDirectoryEmpty( const directory : ansiString) : boolean
12052: Function ALFileExists( const Path : ansiString) : boolean
12053: Function ALDirectoryExists( const Directory : Ansistring) : Boolean
12054: Function ALCreateDir( const Dir : Ansistring) : Boolean
12055: Function ALRemoveDir( const Dir : Ansistring) : Boolean
12056: Function ALDeleteFile( const FileName : Ansistring) : Boolean
12057: Function ALRenameFile( const OldName, NewName : ansistring) : Boolean
12058: end;
12059:
12060: procedure SIRegister_ALFcnsMime(CL: TPSPPascalCompiler);
12061: begin
12062:   NativeInt', 'Integer
12063:   NativeUInt', 'Cardinal
12064:   Function ALMimeBase64EncodeString( const S : AnsiString) : AnsiString
12065:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString) : AnsiString
12066:   Function ALMimeBase64DecodeString( const S : AnsiString) : AnsiString
12067:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt) : NativeInt
12068:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt) : NativeInt
12069:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt) : NativeInt
12070:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12071:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12072:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12073:   Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt
12074:   Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12075:   + 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12076:   Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal) : NativeInt;
12077:   Procedure ALMimeBase64Encode(const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
OutputBuf:TByteDynArray)
12078:   Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray)
12079:   Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray)
12080:   Function ALMimeBase64Decode1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray):NativeInt;
12081:   Function ALMimeBase64DecodePartial1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12082:   Function ALMimeBase64DecodePartialEnd1(out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
ByteBufferSpace:Cardinal):NativeInt;
12083:   Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName)
12084:   Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName)
12085:   Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName)
12086:   Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream)
12087:   Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream)
12088:   Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream)
12089:   'cALMimeBase64_ENCODED_LINE_BREAK','LongInt'( 76);
12090:   'cALMimeBase64_DECODED_LINE_BREAK','LongInt'( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3);
12091:   'cALMimeBase64_BUFFER_SIZE','LongInt'( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4);
12092:   Procedure ALFillMimeContent-TypeByExtList( AMIMEList : TALStrings)
12093:   Procedure ALFillExtByMimeContent-TypeList( AMIMEList : TALStrings)
12094:   Function ALGetDefaultFileExtFromMimeType( aContentType : AnsiString) : AnsiString
12095:   Function ALGetDefaultMIMEContent-TypeFromExt( aExt : AnsiString) : AnsiString
12096: end;
12097:
12098: procedure SIRegister_ALXmlDoc(CL: TPSPPascalCompiler);
12099: begin
12100:   'cALXMLNodeMaxListSize','LongInt'( Maxint div 16);
12101:   FindClass('TOBJECT'),'TALXMLNode'
12102:   FindClass('TOBJECT'),'TALXMLNodeList'
12103:   FindClass('TOBJECT'),'TALXMLDocument'
12104:   TALXMLParseProcessingInstructionEvent', 'Procedure ( Sender:TObject; const Target,Data:Ansistring)
12105:   TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str: AnsiString)
12106:   TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co'
12107:   +'nst Name : AnsiString; const Attributes : TALStrings)
12108:   TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString)
12109:   TALXMLNodeType', '( ntReserved, ntElement, ntAttribute, ntText, '
12110:   +'ntCData, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12111:   +'ntDocType, ntDocFragment, ntNotation )
12112:   TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12113:   TALXMLDocOptions', 'set of TALXMLDocOption
12114:   TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12115:   TALXMLParseOptions', 'set of TALXMLParseOption
12116:   TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12117:   PALPointerXMLNodeList', '^PALPointerXMLNodeList // will not work
12118:   SIRegister_EALXMLDocError(CL);
12119:   SIRegister_TALXMLNodeList(CL);
12120:   SIRegister_TALXMLNode(CL);
12121:   SIRegister_TALXmlElementNode(CL);
12122:   SIRegister_TALXmlAttributeNode(CL);
12123:   SIRegister_TALXmlTextNode(CL);
12124:   SIRegister_TALXmlDocumentNode(CL);
12125:   SIRegister_TALXmlCommentNode(CL);
12126:   SIRegister_TALXmlProcessingInstrNode(CL);

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12127: SIRегистrier_TALXmlCDataNode(CL);
12128: SIRегистrier_TALXmlEntityRefNode(CL);
12129: SIRегистrier_TALXmlEntityNode(CL);
12130: SIRегистrier_TALXmlDocTypeNode(CL);
12131: SIRегистrier_TALXmlDocFragmentNode(CL);
12132: SIRегистrier_TALXmlNotationNode(CL);
12133: SIRегистrier_TALXMLDocument(CL);
12134: CALXMLUTF8EncodingStr', 'String 'UTF-8
12135: CALXMLUTF8HeaderStr', 'String '<?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' + #13#10);
12136: CALNSDelim', 'String ': 
12137: CALXML', 'String 'xml
12138: CALVersion', 'String 'version
12139: CALEncoding', 'String 'encoding
12140: CALStandalone', 'String 'standalone
12141: CALDefaultNodeIndent', 'String '
12142: CALXmlDocument', 'String 'DOCUMENT
12143: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString ) : TalXMLDocument
12144: Procedure ALClearXMLDocument( const rootname:AnsiString;xmldoc:TalXMLDocument;const
EncodingStr:AnsiString );
12145: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildnodeName,
ChildnodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12146: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
ChildnodeName, ChildnodeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12147: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
Recurse: Boolean):TalxmlNode
12148: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
AttributeName,AttributeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12149: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString ) :
AnsiString
12150: end;
12151:
12152: procedure SIRегистrier_TeCanvas(CL: TPSPascalCompiler);
12153: //based on TEEProc, TeCanvas, TEEEngine, TChart
12154: begin
12155: 'TeePiStep','Double').setExtended( Pi / 180.0 );
12156: 'TeeDefaultPerspective','LongInt'( 100 );
12157: 'TeeMinAngle','LongInt'( 270 );
12158: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12159: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12160: 'teeclCream','LongWord( TColor ( $FOFBFF ) );
12161: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0AO ) );
12162: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12163: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12164: 'teeclCream','LongWord').SetUInt( TColor ( $FOFBFF ) );
12165: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0AO ) );
12166: 'TA_LEFT','LongInt'( 0 );
12167: 'TA_RIGHT','LongInt'( 2 );
12168: 'TA_CENTER','LongInt'( 6 );
12169: 'TA_TOP','LongInt'( 0 );
12170: 'TA_BOTTOM','LongInt'( 8 );
12171: 'teePATCOPY','LongInt'( 0 );
12172: 'NumCirclePoints','LongInt'( 64 );
12173: 'teeDEFAULT_CHARSET','LongInt'( 1 );
12174: 'teeANTIALIASED_QUALITY','LongInt'( 4 );
12175: 'TA_LEFT','LongInt'( 0 );
12176: 'bs_Solid','LongInt'( 0 );
12177: 'teepf24Bit','LongInt'( 0 );
12178: 'teepfDevice','LongInt'( 1 );
12179: 'CM_MOUSELEAVE','LongInt'( 10000 );
12180: 'CM_SYSCOLORCHANGE','LongInt'( 10001 );
12181: 'DC_BRUSH','LongInt'( 18 );
12182: 'DC_PEN','LongInt'( 19 );
12183: teeCOLORREF', 'LongWord
12184: TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12185: //TNotifyEvent', 'Procedure ( Sender : TObject )
12186: SIRегистrier_TFilterRegion(CL);
12187: SIRегистrier_IFormCreator(CL);
12188: SIRегистrier_TFeeFilter(CL);
12189: //TFilterClass', 'class of TTeeFilter
12190: SIRегистrier_TFilterItems(CL);
12191: SIRегистrier_TConvolveFilter(CL);
12192: SIRегистrier_TBlurFilter(CL);
12193: SIRегистrier_TTeePicture(CL);
12194: TPenEndStyle', '( esRound, esSquare, esFlat )
12195: SIRегистrier_TChartPen(CL);
12196: SIRегистrier_TChartHiddenPen(CL);
12197: SIRегистrier_TDottedGrayPen(CL);
12198: SIRегистrier_TDarkGrayPen(CL);
12199: SIRегистrier_TWhitePen(CL);
12200: SIRегистrier_TChartBrush(CL);
12201: TTeeView3DSrolled', 'Procedure ( IsHoriz : Boolean)
12202: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12203: SIRегистrier_TVview3DOptions(CL);
12204: FindClass('TOBJECT'), 'TTeeCanvas
12205: TTeeTransparency', 'Integer
12206: SIRегистrier_TTeeBlend(CL);
12207: FindClass('TOBJECT'), 'TCanvas3D
12208: SIRегистrier_TTeeShadow(CL);
12209: teeTGradientDirection','(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown )

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12210: FindClass('TOBJECT'), 'TSubGradient
12211: SIRegister_TCustomTeeGradient(CL);
12212: SIRegister_TSubGradient(CL);
12213: SIRegister_TTeeGradient(CL);
12214: SIRegister_TTeeFontGradient(CL);
12215: SIRegister_TTeeFont(CL);
12216: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12217: TCanvasTextAlign', 'Integer
12218: TTeeCanvasHandle', 'HDC
12219: SIRegister_TTeeCanvas(CL);
12220: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12221: SIRegister_TFloatXYZ(CL);
12222: TPoint3D', 'record x : integer; y : integer; z : Integer; end
12223: TRGB', 'record blue: byte; green: byte; red: byte; end
12224: {TRGB=packed record
12225:   Blue : Byte;
12226:   Green : Byte;
12227:   Red : Byte;
12228: //{$IFDEF CLX} //Alpha : Byte; // Linux end;}
12229:
12230: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12231:   +'TPoint3D; var Color0, Color1 : TColor) : Boolean
12232: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12233: TCanvas3DPlane', '( cpX, cpY, cpZ )
12234: //IInterface', 'IUnknown
12235: SIRegister_TCanvas3D(CL);
12236: SIRegister_TTeeCanvas3D(CL);
12237: TTrianglePoints', 'Array[0..2] of TPoint;
12238: TFourPoints', 'Array[0..3] of TPoint;
12239: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12240: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12241: Function Point3D( const x, y, z : Integer) : TPoint3D
12242: Procedure SwapDouble( var a, b : Double)
12243: Procedure SwapInteger( var a, b : Integer)
12244: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12245: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12246: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer): TRect
12247: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12248: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12249: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12250: Procedure UnClipCanvas( ACanvas : TCanvas)
12251: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12252: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12253: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12254: 'TeeCharForHeight', 'String 'W
12255: 'DarkerColorQuantity','Byte').SetUInt( 128);
12256: 'DarkColorQuantity','Byte').SetUInt( 64);
12257: TButtonGetColorProc', 'Function : TColor
12258: SIRegister_TTeeButton(CL);
12259: SIRegister_TButtonColor(CL);
12260: SIRegister_TComboFlat(CL);
12261: Procedure TeeSetTeePen(TPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTeeCanvasHandle)
12262: Function TeePoint( const aX, aY : Integer) : TPoint
12263: Function TEEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12264: Function PointInRect1( const Rect : TRect; x, y : Integer) : Boolean;
12265: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12266: Function OrientRectangle( const R : TRect) : TRect
12267: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12268: Function PolygonBounds( const P : array of TPoint) : TRect
12269: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12270: Function RGBValue( const Color : TColor) : TRGB
12271: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12272: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12273: Function PointAtDistance( AFrom, ATo : TPoint; Adist : Integer) : TPoint
12274: Function TeeCull( const P : TFourPoints) : Boolean;
12275: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12276: TSmootherStretchOption', '( ssBestQuality, ssBestPerformance )
12277: Procedure SmoothStretch( Src, Dst : TBitmap);
12278: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmootherStretchOption);
12279: Function TeeDistance( const x, y : Double) : Double
12280: Function TeeLoadLibrary( const FileName : String) : HInst
12281: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12282: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12283: //Procedure TeeCalcLines( var Lines : TRGBAArray; Bitmap : TBitmap)
12284: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12285: SIRegister_ICanvasHyperlinks(CL);
12286: SIRegister_ICanvasToolTips(CL);
12287: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12288: end;
12289:
12290: procedure SIRegister_ovcmisc(CL: TPPSPascalCompiler);
12291: begin
12292:   TOvcHdc', 'Integer
12293:   TOvc HWND', 'Cardinal
12294:   TOvcHdc', 'HDC
12295:   TOvc HWND', 'HWN
12296:   Function LoadBaseBitmap( lpBitmapName : PChar) : HBITMAP
12297:   Function LoadBaseCursor( lpCursorName : PChar) : HCURSOR

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12298: Function ovCompStruct( const S1, S2, Size : Cardinal ) : Integer
12299: Function DefaultEpoch : Integer
12300: Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12301: Procedure FixRealPrim( P : PChar; DC : Char )
12302: Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer ) : string
12303: Function GetLeftButton : Byte
12304: Function GetNextDlgItem( Ctrl : TOvcHWnd ) : hWnd
12305: Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte )
12306: Function GetShiftFlags : Byte
12307: Function ovCreateRotatedFont( F : TFont; Angle : Integer ) : hFont
12308: Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle; Height:Integer;Ctl3D:Boolean): Integer
12309: Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet ) : string
12310: Function ovIsForegroundTask : Boolean
12311: Function ovTrimLeft( const S : string ) : string
12312: Function ovTrimRight( const S : string ) : string
12313: Function ovQuotedStr( const S : string ) : string
12314: Function ovWordCount( const S : string; const WordDelims : TCharSet ) : Integer
12315: Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12316: Function PtrDiff( const P1, P2 : PChar ) : Word
12317: Procedure PtrInc( var P, Delta : Word )
12318: Procedure PtrDec( var P, Delta : Word )
12319: Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer )
12320: Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer )
12321: Function ovMinI( X, Y : Integer ) : Integer
12322: Function ovMaxI( X, Y : Integer ) : Integer
12323: Function ovMinL( X, Y : LongInt ) : LongInt
12324: Function ovMaxL( X, Y : LongInt ) : LongInt
12325: Function GenerateComponentName( PF : TWinControl; const Root : string ) : string
12326: Function PartialCompare( const S1, S2 : string ) : Boolean
12327: Function PathEllipsis( const S : string; MaxWidth : Integer ) : string
12328: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor ) : TBitmap
12329: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas )
12330: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
TransparentColor : TColor )
12331: Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
TransparentColor : TColorRef )
12332: Function ovWidthOf( const R : TRect ) : Integer
12333: Function ovHeightOf( const R : TRect ) : Integer
12334: Procedure ovDebugOutput( const S : string )
12335: Function GetArrowWidth( Width, Height : Integer ) : Integer
12336: Procedure StripCharSeq( CharSeq : string; var Str : string )
12337: Procedure StripCharFromEnd( aChr : Char; var Str : string )
12338: Procedure StripCharFromFront( aChr : Char; var Str : string )
12339: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12340: Function SystemParametersInfoONCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL
12341: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12342: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer ) : HRGN
12343: Function CreateEllipticRgnIndirect( const p1 : TRect ) : HRGN
12344: Function CreateFontIndirect( const p1 : TLogFont ) : HFONT
12345: Function CreateMetaFile( p1 : PChar ) : HDC
12346: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12347: Function DrawText(hDC: HDC;lpString: PChar;nCount: Integer; var lpRect : TRect; uFormat:UINT): Integer
12348: Function DrawTextS(hDC: HDC;lpString:string;nCount: Integer; var lpRect: TRect; uFormat:UINT): Integer
12349: Function SetMapperFlags( DC : HDC; Flag : DWORD ) : DWORD
12350: Function SetGraphicsMode( hdc : HDC; iMode : Integer ) : Integer
12351: Function SetMapMode( DC : HDC; p2 : Integer ) : Integer
12352: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar ) : HMETAFILE
12353: //Function SetPaletteEntries(Palette:HPALETTE;startIndex,NumEntries:UINT;var PaletteEntries):UINT
12354: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12355: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF ) : BOOL
12356: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor ) : BOOL
12357: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer ) : Integer
12358: Function StretchBlt(DestDC: HDC; X, Y, Width, Height: Int; SrcDC: HDC; XSrc, YSrc, SrcWidth,
SrcHeight: Int; Rop: DWORD): BOOL
12359: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer ) : BOOL
12360: Function StretchDIBits( DC : HDC; DestX, DestY, DestWidth, DestHeight, SrcX, SrcY, SrcWidth,
SrcHeight: Int; Bits: int; var BitsInfo : TBitmapInfo; Usage : UInt; Rop : DWORD ) : Integer
12361: Function SetROP2( DC : HDC; p2 : Integer ) : Integer
12362: Function SetStretchBltMode( DC : HDC; StretchMode : Integer ) : Integer
12363: Function SetSystemPaletteUse( DC : HDC; p2 : UInt ) : UInt
12364: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer ) : Integer
12365: Function SetTextColor( DC : HDC; Color : COLORREF ) : COLORREF
12366: Function SetTextAlign( DC : HDC; Flags : UInt ) : UInt
12367: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer ) : Integer
12368: Function UpdateColors( DC : HDC ) : BOOL
12369: Function GetViewportExtEx( DC : HDC; var Size : TSize ) : BOOL
12370: Function GetViewportOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12371: Function GetWindowExtEx( DC : HDC; var Size : TSize ) : BOOL
12372: Function GetWindowOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12373: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12374: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12375: Function MaskBlt(DestDC: HDC; XDest, YDest, Width, Height: Integer; SrcDC : HDC; XScr, YScr : Integer; Mask :
HBITMAP; xMask, yMask : Integer; Rop : DWORD ) : BOOL
12376: Function PlgBlt(DestDC: HDC; const PtsArray, SrcDC: HDC; XSrc, YSrc, Widt, Heigh: Int; Mask: HBITMAP; xMask,
yMask: Int):BOOL;
12377: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12378: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12379: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD ) : BOOL

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12380: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer) : BOOL
12381: Function PlayMetaFile( DC : HDC; MF : HMETAFILE) : BOOL
12382: Function PaintRgn( DC : HDC; RGN : HRGN) : BOOL
12383: Function PtInRegion( RGN : HRGN; X, Y : Integer) : BOOL
12384: Function PtVisible( DC : HDC; X, Y : Integer) : BOOL
12385: Function RectInRegion( RGN : HRGN; const Rect : TRect) : BOOL
12386: Function RectVisible( DC : HDC; const Rect : TRect) : BOOL
12387: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer) : BOOL
12388: Function RestoreDC( DC : HDC; SavedDC : Integer) : BOOL
12389: end;
12390:
12391: procedure SIRegister_ovcfiler(CL: TPPascalCompiler);
12392: begin
12393:   SIRegister_TOvcAbstractStore(CL);
12394:   //PExPropInfo', '^TExPropInfo // will not work
12395:   // TExPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12396:   SIRegister_TOvcPropertyList(CL);
12397:   SIRegister_TOvcDataFiler(CL);
12398:   Procedure UpdateStoredList( AForm : TWinControl; AStoredList : TStrings; FromForm : Boolean)
12399:   Procedure UpdateStoredList( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean)
12400:   Function CreateStoredItem( const CompName, PropName : string) : string
12401:   Function ParseStoredItem( const Item : string; var CompName, PropName : string) : Boolean
12402:   //Function GetPropType( PropInfo : PExPropInfo) : PTypeInfo
12403: end;
12404:
12405: procedure SIRegister_ovccoco(CL: TPPascalCompiler);
12406: begin
12407:   'ovsetsize','LongInt'( 16);
12408:   'etSyntax','LongInt'( 0);
12409:   'etSemantic','LongInt'( 1);
12410:   'chCR','Char #13);
12411:   'chLF','Char #10);
12412:   'chLineSeparator',' chCR);
12413:   SIRegister_TCocoError(CL);
12414:   SIRegister_TCommentItem(CL);
12415:   SIRegister_TCommentList(CL);
12416:   SIRegister_TSymbolPosition(CL);
12417:   TGenListType', '(
glNever, glAlways, glOnError )
12418:   TovbitSet', 'set of Integer
12419:   //PStartTable', '^TStartTable // will not work
12420:   'TovcharSet', 'set of AnsiChar
12421:   TAAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12422:   TCommentEvent', 'Procedure ( Sender : TObject; Commentlist : TCommentList)
12423:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12424:   TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12425:   TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP
12426:     +'osition; const Data : string; ErrorType : integer)
12427:   TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12428:   TGetCH', 'Function ( pos : longint ) : char
12429:   TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12430:   SIRegister_TCocoRScanner(CL);
12431:   SIRegister_TCocoRGrammar(CL);
12432:   '_EF','Char #0);
12433:   '_TAB','Char').SetString( #09);
12434:   '_CR','Char').SetString( #13);
12435:   '_LF','Char').SetString( #10);
12436:   '_EL','',').SetString( _CR);
12437:   '_EOF','Char').SetString( #26);
12438:   'LineEnds', 'TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12439:   'minErrDist','LongInt'( 2);
12440:   Function ovPadL( S : string; ch : char; L : integer) : string
12441: end;
12442:
12443: TFormatSettings = record
12444:   CurrencyFormat: Byte;
12445:   NegCurrFormat: Byte;
12446:   ThousandSeparator: Char;
12447:   DecimalSeparator: Char;
12448:   CurrencyDecimals: Byte;
12449:   DateSeparator: Char;
12450:   TimeSeparator: Char;
12451:   ListSeparator: Char;
12452:   CurrencyString: string;
12453:   ShortDateFormat: string;
12454:   LongDateFormat: string;
12455:   TimeAMString: string;
12456:   TimePMString: string;
12457:   ShortTimeFormat: string;
12458:   LongTimeFormat: string;
12459:   ShortMonthNames: array[1..12] of string;
12460:   LongMonthNames: array[1..12] of string;
12461:   ShortDayNames: array[1..7] of string;
12462:   LongDayNames: array[1..7] of string;
12463:   TwoDigitYearCenturyWindow: Word;
12464: end;
12465:
12466: procedure SIRegister_OvcFormatSettings(CL: TPPascalCompiler);
12467: begin
12468:   Function ovFormatSettings : TFormatSettings

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12469: end;
12470:
12471: procedure SIRegister_ovcstr(CL: TPSPascalCompiler);
12472: begin
12473:   TOvcCharSet', 'set of Char
12474:   ovBTable', 'array[0..255] of Byte
12475:   //BTable = array[0..{$IFDEF UNICODE}{$IFDEF
12476:     HUGE_UNICODE_BMTABLE}{$FFFF}{$ELSE}{$FF}{$ENDIF}{$ENDIF}]{${$ENDIF}} of Byte;
12477:   Function BinaryPChar( Dest : PChar; B : Byte ) : PChar
12478:   Function BinaryLPChar( Dest : PChar; L : LongInt ) : PChar
12479:   Function BinaryWPChar( Dest : PChar; W : Word ) : PChar
12480:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable );
12481:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable;MatchString:PChar;var Pos:Cardinal):Bool;
12482:   Function BMSearchUC(var Buffer,BufLength:Cardinal;var BT:ovBTable;MatchString:PChar;var Pos:Cardinal):Boolean;
12483:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12484:   Function DatabPChar( Dest : PChar; Src : PChar; TabSize : Byte ) : PChar
12485:   Function HexBPChar( Dest : PChar; B : Byte ) : PChar
12486:   Function HexLPChar( Dest : PChar; L : LongInt ) : PChar
12487:   Function HexWPChar( Dest : PChar; W : Word ) : PChar
12488:   Function LoCaseChar( C : Char ) : Char
12489:   Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar
12490:   Function StrChDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12491:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos : Cardinal ) : PChar
12492:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12493:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word )
12494:   Function StrMemcpy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12495:   Function StrDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12496:   Function StrInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12497:   Function StrInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar
12498:   Function Strnpos( P, S : PChar; var Pos : Cardinal ) : Boolean
12499:   Function StrToLongPChar( S : PChar; var I : LongInt ) : Boolean
12500:   Procedure TrimAllSpacesPChar( P : PChar )
12501:   Function TrimEmbeddedZeros( const S : string ) : string
12502:   Procedure TrimEmbeddedZerosPChar( P : PChar )
12503:   Function TrimTrailPrimPChar( S : PChar ) : PChar
12504:   Function TrimTrailPChar( Dest, S : PChar ) : PChar
12505:   Function TrimTrailingZeros( const S : string ) : string
12506:   Procedure TrimTrailingZerosPChar( P : PChar )
12507:   Function UpCaseChar( C : Char ) : Char
12508:   Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet ) : Boolean
12509:   Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12510:   //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal ) : Boolean;
12511: end;
12512:
12513: procedure SIRegister_AfUtils(CL: TPSPascalCompiler);
12514: begin
12515:   //PRaiseFrame', '^TRaiseFrame // will not work
12516:   TRaiseFrame , 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12517:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12518:   Procedure SafeCloseHandle( var Handle : THandle )
12519:   Procedure ExchangeInteger( X1, X2 : Integer )
12520:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12521:   Function LongMulDiv( Multi, Mult2, Div1 : Longint ) : Longint
12522:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12523:
12524:   FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12525:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12526:   function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12527:   function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12528:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12529:     SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12530:     const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12531:     var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12532:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12533:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12534:     SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12535:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12536:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12537:     var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12538:   function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLOChar;
12539:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12540:     SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12541:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12542:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12543:     var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12544:   function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12545:   function ClearEventlog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12546:   function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12547:     lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;
12548:     lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12549:     dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLOChar;
12550:     const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12551:   function GetCurrentHwProfile(var lpHwProfileInfo: THWProfileInfo): BOOL; stdcall;
12552:   function GetFileSecurity(lpFileName: PKOLOChar; RequestedInformation: SECURITY_INFORMATION;
12553:     pSecurityDescriptor: PSecurityDescriptor;nLength:DWORD;var lpnLengthNeeded: DWORD):BOOL; stdcall;
12554:   function GetUserNames(lpBuffer: PKOLOChar; var nSize: DWORD): BOOL; stdcall;
12555:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLOChar;
12556:     dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;

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12557:     function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLChar;
12558:         dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12559:     function LookupAccountName(lpSystemName, lpAccountName: PKOLChar;
12560:         Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLChar;
12561:             var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12562:     function LookupAccountsSid(lpSystemName: PKOLChar; Sid: PSID;
12563:         Name: PKOLChar; var cbName: DWORD; ReferencedDomainName: PKOLChar;
12564:             var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12565:     function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLChar;
12566:         lpDisplayName: PKOLChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12567:     function LookupPrivilegeName(lpSystemName: PKOLChar;
12568:         var lpLuid: TLargeInteger; lpName: PKOLChar; var cbName: DWORD): BOOL; stdcall;
12569:     function LookupPrivilegeValue(lpSystemName, lpName: PKOLChar;
12570:         var lpLuid: TLargeInteger): BOOL; stdcall;
12571:     function ObjectCloseAuditAlarm(SubsystemName: PKOLChar;
12572:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12573:     function ObjectDeleteAuditAlarm(SubsystemName: PKOLChar;
12574:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12575:     function ObjectOpenAuditAlarm(SubsystemName: PKOLChar; HandleId: Pointer;
12576:         ObjectType: PKOLChar; ObjectName: PKOLChar; pSecurityDescriptor: PSecurityDescriptor;
12577:         ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12578:             var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12579:             var GenerateOnClose: BOOL): BOOL; stdcall;
12580:     function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLChar;
12581:         HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12582:             var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12583:     function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12584:     function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12585:     function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLChar;
12586:         ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12587:     function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12588:         lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12589:             var pnBytesRead, pnMinNumberofBytesNeeded: DWORD): BOOL; stdcall;
12590:     function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12591:         var phkResult: HKEY): Longint; stdcall;
12592:     function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12593:         var phkResult: HKEY): Longint; stdcall;
12594:     function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12595:         Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12596:         lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12597:         lpdwDisposition: PDWORD): Longint; stdcall;
12598:     function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12599:     function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12600:     function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12601:         var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12602:             lpcbClass: PDWORD; lpftLastWriteTime: PFileTime): Longint; stdcall;
12603:     function RegEnumKeyValue(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar; cbName: DWORD): Longint; stdcall;
12604:     function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12605:         var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12606:             lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12607:     function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12608:     function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12609:     function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12610:         ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12611:     function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12612:         lpcbClass: PDWORD; lpReserved: Pointer;
12613:             lpcbSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpcValues,
12614:             lpcb.MaxValueNameLen, lpcb.MaxValueLen, lpcbSecurityDescriptor: PDWORD;
12615:             lpftLastWriteTime: PFileTime): Longint; stdcall;
12616:     function RegQueryMultipleValues(hKey: HKEY; var ValList;
12617:         NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotsize: DWORD): Longint; stdcall;
12618:     function RegQueryValue(hKey: HKEY; lpSubkey: PKOLChar;
12619:         lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12620:     function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12621:         lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12622:     function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12623:         lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12624:     function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12625:     function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12626:         lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12627:     function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12628:         dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12629:     function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12630:         Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12631:     function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12632:     function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12633:     function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12634:         dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12635:         dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12636:     function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12637:         pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12638:
12639:     Function wAddAtom( lpString : PKOLChar ) : ATOM
12640:     Function wBeginUpdateResource( pFileName : PKOLChar; bDeleteExistingResources : BOOL) : THandle
12641:     //Function wCallNamedPipe( lpNamedPipeName : PKOLChar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12642:     lpOutBuffer : Pointer; nOutBufferSize : DWORD; var lpBytesRead : DWORD; nTimeOut : DWORD) : BOOL
12643:     //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig) : BOOL
12644:     Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
12645:         lpString2 : PKOLChar; cchCount2 : Integer) : Integer

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12644: Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL ) : BOOL
12645: //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TFNProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD ) : BOOL
12646: Function w.CreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12647: Function wCreateDirectoryEx(lpTemplateDirectory,
lpNewDirectory:PKOLChar;lpSecAttrib:PSecurityAttribs):BOOL;
12648: Function wCreateEvent( lpEventAttributes:PSecurityAttrib:bManualReset ,
bInitialState:BOOL;lpName:PKOLChar):THandle;
12649: Function wCreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes:DWORD;hTemplateFile:THandle ):THandle
12650: Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; flProtect ,
dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar ) : THandle
12651: Function wCreateHardLink(lpFileName,
lpExistingFileName:PKOLChar;lpSecurityAttributes:PSecurityAttributes):BOOL
12652: Function CreateMailslot(lpName:PKOLChar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes ):THandle;
12653: Function wCreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize ,
nInBufferSize, nDefaultTimeOut : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12654: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes ,
lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
Pointer;lpCurrentDirectory:PKOLChar;const lpStartupInfo:TStartupInfo;var
lpProcessInfo:TProcessInformation):BOOL
12655: Function wCreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
Longint; lpName : PKOLChar ) : THandle
12656: Function wCreateWaitableTimer(lpTimerAttribs:PSecurityAttribs;bManualReset:BOOL;lpTimerName:PKOLChar ):THandle;
12657: Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar ) : BOOL
12658: Function wDeleteFile( lpFileName : PKOLChar ) : BOOL
12659: Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12660: //Function wEnumCalendarInfo(lpCalInfEnumProc:TFNCalInfEnumProc;Locale:LCID;Calendar:CALID;CalType:CALTYPE):BOOL;
12661: //Function wEnumDateFormats(lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD ) : BOOL
12662: //Function wEnumResourceNames(hModule:HMODULE;lpType:PKOLChar;lpEnumFunc:ENUMRESNAMEPROC;lParam:Longint):BOOL;
12663: //Function wEnumResourceTypes( hModule:HMODULE; lpEnumFunc:ENUMRESTYPEPROC;lParam:Longint):BOOL;
12664: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCodepageEnumProc; dwFlags : DWORD ) : BOOL
12665: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD) : BOOL
12666: //Function wEnumTimeFormats(lpTimeFmtEnumProc:TFNTimeFmtEnumProc;Locale:LCID;dwFlags:DWORD):BOOL;
12667: Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD ) : DWORD
12668: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar )
12669: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12670: Function wFindAtom( lpString : PKOLChar ) : ATOM
12671: Function wFindFirstChangeNotification(lpPathName:PKOLChar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD ):THandle;
12672: Function wFindFirstFile( lpFileName : PKOLChar; var lpFindFileData : TWIN32FindData ) : THandle
12673: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFIndexInfoLevels; lpFindFileData :
Pointer; fSearchOp : TFIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD ) : BOOL
12674: Function wFindNextFile( hFindFile : THandle; var lpFindFileData : TWIN32FindData ) : BOOL
12675: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar ) : HRSRC
12676: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word ) : HRSRC
12677: Function wFoldString(dwMapFlags:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Integer):Integer;
12678: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
DWORD; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer ) : DWORD
12679: Function wFreeEnvironmentStrings( EnvBlock : PKOLChar ) : BOOL
12680: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12681: Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD ) : BOOL
12682: Function wGetCommandLine : PKOLChar
12683: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD ) : DWORD
12684: Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD ) : BOOL
12685: Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD ) : DWORD
12686: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer ) : Integer
12687: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12688: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar,
lpDateStr : PKOLChar; cchDate : Integer ) : Integer
12689: //Function wGetDefaultCommConfig( lpszName:PKOLChar;var lpCC : TCommConfig;var lpdwSize:DWORD):BOOL
12690: Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector ,
lpNumberofFreeClusters, lpTotalNumberOfClusters : DWORD ) : BOOL
12691: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger ) : BOOL
12692: Function wGetDriveType( lpRootPathName : PKOLChar ) : UINT
12693: Function wGetEnvironmentStrings : PKOLChar
12694: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD ) : DWORD
12695: Function wGetFileAttributes( lpFileName : PKOLChar ) : DWORD
12696: //Function wGetFileAttributesEx(lpFileName:PKOLChar,fInfoLevelId:TGetFileExInfoLevs;lpFileInfor:Pointer):BOOL;
12697: Function wGetFullPathName(lpFileName:PKOLChar;nBufferLeng:WORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar):DWORD;
12698: //Function wGetLocaleInfo(Locale:LCID; LCTYPE:LCTYPE;lpLCData:PKOLChar;cchData:Integer): Integer
12699: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12700: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLChar; nSize : DWORD ) : DWORD
12701: Function wGetModuleHandle( lpModuleName : PKOLChar ) : HMODULE
12702: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount ,
lpCollectDataTimeout : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD ) : BOOL
12703: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt ,
lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12704: Function wGetPrivateProfileInt(lpAppName,lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar):UINT;

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12705: Function wGetPrivateProfileSection(lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD;pFileName:PKOLChar):DWORD;
12706: Function wGetPrivateProfileSectionNames(lpszReturnBuffer:PKOLChar;nSize:DWORD;lpFileName:PKOLChar):DWORD;
12707: Function wGetPrivateProfileString( lpAppName, lpKeyName, lpDefault : PKOLChar;lpReturnedStr: PKOLChar;
nSize:DWORD; lpFileName : PKOLChar) : DWORD
12708: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12709: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12710: Function wGetProfileString(lpAppName,lpKeyName,
lpDefault:PKOLChar;lpReturnedStr:PKOLChar;nSize:DWORD):DWORD;
12711: Function wGetShortPathName( lpszLongPath:PKOLChar;lpszShortPath: PKOLChar; cchBuffer : DWORD ) : DWORD
12712: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo)
12713: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer;var
lpCharType):BOOL
12714: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12715: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar):UINT
12716: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12717: //Function wGetTimeFormat(Loc:LCID;dwFlgs:DWORD;lpTime:PSystemTime;lpFrm:PKOLChar;lpTimeStr:PKOLChar;cTime:Int):Int
12718: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo) : BOOL
12719: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
: DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12720: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12721: Function wGlobalAddAtom( lpString : PKOLChar) : ATOM
12722: Function wGlobalFindAtom( lpString : PKOLChar) : ATOM
12723: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12724: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT) : BOOL
12725: Function wLCMapString(Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int
12726: Function wLoadLibrary( lpLibFileName : PKOLChar) : HMODULE
12727: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12728: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar) : BOOL
12729: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12730: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TNPProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12731: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL;lpName:PKOLChar ) : THandle
12732: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar):THandle
12733: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12734: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar):THandle
12735: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;bInheritHandle:BOOL;lpTimerName:PKOLChar):THandle
12736: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12737: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
lpNumberOfEventsRead:DWORD):BOOL;
12738: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12739: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12740: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12741: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
lpNumbOfEventsRead:DWORD):BOOL;
12742: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
: TCoord; var lpReadRegion : TSmallRect ) : BOOL
12743: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12744: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12745: //Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12746: Function wSearchPath( lpPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar ):DWORD;
12747: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12748: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12749: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12750: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12751: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12752: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12753: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDat : PKOLChar ) : BOOL
12754: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12755: //Function wUpdateResource(hUpdate:THandle;lpType,
lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12756: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12757: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12758: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite :
DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12759: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
var lpNumberOfEventsWritten : DWORD ) : BOOL
12760: //Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12761: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12762: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12763: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12764: Function wWriteProfileSection( lpAppName, lpString : PKOLChar ) : BOOL
12765: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12766: Function wlstrcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12767: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12768: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12769: Function wlstrcmpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12770: Function wlstrcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12771: Function wlstrlen( lpString : PKOLChar ) : Integer
12772: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruct :
PNetConnectInfoStruct ) : DWORD

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12773: //Function wWNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
12774: lpUserName:PKOLChar;dwFlags:DWORD):DWORD;
12775: //Function wWNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
12776: lpUserName:PKOLChar; dwFlags : DWORD ) : DWORD
12777: Function wWNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12778: Function wWNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12779: //Function wWNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12780: //Function wWNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12781: //Function wWNetEnumResource(hEnum:THandle;var lpcCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12782: Function wWNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD):DWORD;
12783: Function wWNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
12784: : PKOLChar; nNameBufSize : DWORD ) : DWORD
12785: //Function wWNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12786: Function wWNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12787: //Function wWNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12788: //Function wWNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
12789: lpBufferSize:DWORD):DWORD;
12790: //Function wWNet GetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12791: // Function wWNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12792: Function wWNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD
12793: //Function wWNetUseConnection(hwndOwner:HWND;var
12794: lpNetResource:TNetResource;lpUserID:PKOLChar;lpPassword:PKOLChar; dwFlags:DWORD;lpAccessName:PKOLChar;var
12795: lpBufferSize:DWORD;var lpResult:DWORD):DWORD
12796: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12797: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12798: Function wVerFindfile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
12799: lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpuDestDirLen : UINT ) : DWORD
12800: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
12801: szTmpFile : PKOLChar; var lpuTmpFileLen : UINT ) : DWORD
12802: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12803: //Function wGetPrivateProfileStruct(lpszSection,
12804: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12805: //Function wWritePrivateProfileStruct(lpszSection,
12806: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szfile:PKOLChar):BOOL;
12807: Function wAddFontResource( FileName : PKOLChar ) : Integer
12808: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : Integer
12809: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar ) : HENHMETAFILE
12810: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar ) : HMETAFILE
12811: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace ) : HCOLORSPACE
12812: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpDvmInit : PDeviceMode ) : HDC
12813: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar ) : HDC
12814: //Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic,
12815: fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
12816: fdwPitchAndFamily:DWORD;lpszFace:PKOLChar):HFONT;
12817: Function wCreateFontIndirect( const p1 : TLogFont ) : HFONT
12818: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV ) : HFONT
12819: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpDvmInit : PDeviceMode ) : HDC
12820: Function wCreateMetaFile( p1 : PKOLChar ) : HDC
12821: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar ) : BOOL
12822: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
12823: pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int;
12824: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFFNFontEnumProc; p4 : LPARAM ) : BOOL
12825: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TFFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12826: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fntermprc:TFFNFontEnumProc;lpszData:PKOLChar):Integer;
12827: //Function wEnumICMProfiles( DC : HDC; ICMProc : TFNICMEnumProc; p3 : LPARAM ) : Integer
12828: //Function wExtTextOut(DC:HDC,X,
12829: Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12830: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs ) : BOOL
12831: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts ) : BOOL
12832: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12833: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12834: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12835: //Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12836: Function wGetEnhMetaFile( p1 : PKOLChar ) : HENHMETAFILE
12837: Function wGetEnhMetaFileDescription( p1 : HENHMETAFILE; p2 : UINT; p3 : PKOLChar ) : UINT
12838: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : PWORD; p5 : DWORD ) : DWORD
12839: //Function wGetGlyphOutline( DC : HDC; uChar,uFormat:UINT;const lpgm:TGlyphMetrics; cbBuffer : DWORD;
12840: lpvBuffer : Pointer; const lpmat2 : TMat2 ) : DWORD
12841: Function wGetICMProfile( DC : HDC; var Size : DWORD; Name : PKOLChar ) : BOOL
12842: //Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD ) : BOOL
12843: Function wGetMetafile( p1 : PKOLChar ) : HMETAFILE
12844: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12845: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UInt
12846: //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar;p3,p4:Integer;p5,p6:PInteger;var p7:TSize):BOOL
12847: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12848: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12849: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12850: //Function wGetTextMetrics( DC : HDC; var TM : TTextMetric ) : BOOL
12851: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12852: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12853: //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12854: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12855: Function wSetICMProfile( DC : HDC; Name : PKOLChar ) : BOOL
12856: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer
12857: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer ) : BOOL
12858: Function wUpdateICMRegKey( p1 : DWORD; p2, p3 : PKOLChar; p4 : UInt ) : BOOL
12859: Function wwglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD ) : BOOL
12860: //Function wwglUseFontOutlines(p1:HDC; p2,p3,p4:DWORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL

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12847: Function wAppendMenu( hMenu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12848: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer ) : BOOL
12849: //Function
12850: wCallWindowProc(lpPrevWndFunc:TFNWndProc,hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12851: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD ) : Longint
12852: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar,var lpDevMode: TDeviceMode; wnd : HWND;
12853: dwFlags : DWORD; lParam : Pointer ) : Longint
12854: Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL
12855: Function wCharLower( lpsz : PKOLChar ) : PKOLChar
12856: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12857: Function wCharNext( lpsz : PKOLChar ) : PKOLChar
12858: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12859: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar ) : PKOLChar
12860: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12861: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12862: Function wCharUpper( lpsz : PKOLChar ) : PKOLChar
12863: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12864: Function wCreateAcceleratorTable( var Accel; cAccelEntries : Integer ) : Integer
12865: //Function wCreateDesktop(lpszDesktop,
12866: lpszDevice:PKOLChar;pDevMode:DDeviceMode;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12867: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
12868: hWnd; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12869: //Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
12870: hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12871: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle WORD;X,Y,
12872: nWidth, nHeight:Int WndParent:HWND;hMenu:HMENU;hInstance:HINST;lpParam:Pointer):HWND
12873: //Function wCreateWindowStation(lpinsta:PKOLChar;dwReserv,
12874: dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12875: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12876: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12877: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12878: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12879: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
12880: : HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12881: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
12882: : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12883: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12884: Function wDlgDirList(hDlg:HWND;lpPathSpec:PKOLChar;nIDListBox,
nIDStaticPath:Integer;uFileType:UINT):Integer;
12885: Function wDlgDirListComboBox(hDlg:HWND;lpPathSpec:PKOLChar;nIDComboBox,
nIDStaticPath:Integer;uFileType:UINT):Int;
12886: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDComboBox : Integer ) : BOOL
12887: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12888: //Function wDrawState(DC:HDC;Brush:HBRUSH;CBFunc:TFNDrawStateProc;lData:LPARA;wDat:WPARA;x,y,cx,
cy:Int;Flags:UINT):BOOL;
12889: Function wDrawText( hDC : HDC; lpString : PKOLChar; nCount : Integer; var lpRect : TRect; uFormat : UINT ) : Integer
12890: Function wFindWindow( lpClassName, lpWindowName : PKOLChar ) : HWND
12891: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar ) : HWND
12892: //Function wGetAltTabInfo(hwnd:HWND;iItem:Int,var
12893: pati:TAltTabInfo;pszItemText:PKOLChar;ccItemText:UINT):BOOL;
12894: //Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass ) : BOOL
12895: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx ) : BOOL
12896: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12897: Function wGetClassName( hWnd : HWND; lpClassName : PKOLChar; nMaxCount : Integer ) : Integer
12898: Function wGetClipboardFormatName( format : UINT; lpszFormatName : PKOLChar; cchMaxCount : Integer ) : Integer;
12899: Function wGetDlgItemText( hDlg : HWND; nIDDlgitem : Integer; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12900: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer ) : Integer
12901: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar ) : BOOL
12902: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo ) : BOOL
12903: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer;
12904: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
12905: Function wGetProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12906: //Function wGetTabbedTextExtent( hDC : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
12907: lpnTabStopPositions ) : DWORD
12908: //Function w GetUserObjectInform(hObj:THandle;nIndex:Int,pvInfo:Ptr;nLength:DWORD;var
12909: lpnLengthNeed:DWORD):BOOL;
12910: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
12911: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UINT ) : UINT
12912: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12913: Function wGetWindowTextLength( hWnd : HWND ) : Integer
12914: //Function wGrayString(hDC:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:LPARA;nCnt,X,Y,nWidt,
12915: nHeight:Int):BOOL;
12916: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12917: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12918: Function wIsCharAlpha( ch : KOLChar ) : BOOL
12919: Function wIsCharAlphaNumeric( ch : KOLChar ) : BOOL
12920: Function wIsCharLower( ch : KOLChar ) : BOOL
12921: Function wIsCharUpper( ch : KOLChar ) : BOOL
12922: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12923: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
12924: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar ) : HBITMAP
12925: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12926: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12927: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
12928: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle

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12919: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
12920: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
12921: //Function wLoadMenuIndirect( lpMenuTemplate : Pointer ) : HMENU
12922: Function wLoadString(hInstance:HINST;uID: UINT; lpBuffer :PKOLChar;nBufferMax:Integer):Integer
12923: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
12924: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwhkl : HKL ) : UINT
12925: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
12926: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12927: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
12928: Function wModifyMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12929: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
12930: //Function wOemToAnsiBuf( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
12931: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12932: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12933: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD):HDESK
12934: Function wOpenWindowStation( lpszWinSta : PKOLChar; finherit : BOOL; dwDesiredAccess : DWORD ) : HWINSTA
12935: Function wPeekMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT ) : BOOL
12936: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12937: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
12938: Function wRealGetWindowClass( hwnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
12939: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
12940: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
12941: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
12942: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
12943: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
12944: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THHandle
12945: Function wSendDlgItemMessage(hDlg:HWND;nIDDlItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12946: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12947: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
12948: lpResultCallBack : TFNSendAsyncProc; dwData : DWORD ) : BOOL
12949: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
12950: lpdwResult:DWORD) : LRESULT
12951: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12952: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
12953: Function wSetDlgItemText( hDlg : HWND; nIDDlItem : Integer; lpString : PKOLChar ) : BOOL
12954: // Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12955: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
12956: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12957: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
12958: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
12959: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
12960: Function wTabbedTextOut(hdc:HDC;x,y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
12961: lpnTabStopPositions,nTabOrigin:Int):Longint;
12962: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
12963: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
12964: Function wVkKeyScanEx( ch : KOLChar; dwhkl : HKL ) : SHORT
12965: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
12966: Function wvsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
12967: Function wvsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
12968:
12969: //TestDrive!
12970: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL
12971: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString( 'ConvertSidToStringSidA
12972: Function GetDomainUserSids(const domainName:String;const userName:String; var foundDomain:String):String;
12973: Function GetLocalUserSidStr( const UserName : string ) : string
12974: Function getPid4User( const domain : string; const user : string; var pid : dword ) : boolean
12975: Function Impersonate2User( const domain : string; const user : string ) : boolean
12976: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
12977: Function KillProcessbyname( const exename : string; var found : integer ) : integer
12978: Function getWinProcessList : TStringList
12979: end;
12980:
12981: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12982: begin
12983:   'AfMaxSyncSlots','LongInt'( 64 );
12984:   'AfSynchronizeTimeout','LongInt'( 2000 );
12985:   TafSyncSlotID', 'DWORD
12986:   TAfSyncStatistics', 'record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end';
12987:   TAfSafeSyncEvent', 'Procedure ( ID : TAfSyncSlotID )
12988:   TAfSafeDirectSyncEvent', 'Procedure
12989:   Function AfNewSyncSlot( const AEvent : TAfSafeSyncEvent ) : TAfSyncSlotID
12990:   Function AfReleaseSyncSlot( const ID : TAfSyncSlotID ) : Boolean
12991:   Function AfEnableSyncSlot( const ID : TAfSyncSlotID; Enable : Boolean ) : Boolean
12992:   Function AfValidateSyncSlot( const ID : TAfSyncSlotID ) : Boolean
12993:   Function AfSyncEvent( const ID : TAfSyncSlotID; Timeout : DWORD ) : Boolean
12994:   Function AfDirectSyncEvent( Event : TAfSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
12995:   Function AfIsSyncMethod : Boolean
12996:   Function AfSyncWnd : HWnd
12997:   Function AfSyncStatistics : TAfSyncStatistics
12998:   Procedure AfClearSyncStatistics
12999: end;
13000:
13001: procedure SIRegister_AfComPortCore(CL: TPSPascalCompiler);
13002: begin
13003:   'fBinary','LongWord')($00000001);
13004:   'fParity','LongWord')($00000002);

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13005: 'fOutxCtsFlow', 'LongWord').SetUInt( $00000004 );
13006: 'fOutxDsrFlow', 'LongWord')( $00000008 );
13007: 'fDtrControl', 'LongWord')( $00000030 );
13008: 'fDtrControlDisable', 'LongWord')( $00000000 );
13009: 'fDtrControlEnable', 'LongWord')( $00000010 );
13010: 'fDtrControlHandshake', 'LongWord')( $00000020 );
13011: 'fDsSensitivity', 'LongWord')( $00000040 );
13012: 'fTxCContinueOnXoff', 'LongWord')( $00000080 );
13013: 'fOutX', 'LongWord')( $00000100 );
13014: 'fInX', 'LongWord')( $00000200 );
13015: 'fErrorChar', 'LongWord')( $00000400 );
13016: 'fNull', 'LongWord')( $00000800 );
13017: 'fRtsControl', 'LongWord')( $00003000 );
13018: 'fRtsControlDisable', 'LongWord')( $00000000 );
13019: 'fRtsControlEnable', 'LongWord')( $00001000 );
13020: 'fRtsControlHandshake', 'LongWord')( $00002000 );
13021: 'fRtsControlToggle', 'LongWord')( $00003000 );
13022: 'fAbortOnError', 'LongWord')( $00004000 );
13023: 'fDummy2', 'LongWord')( $FFFF8000 );
13024: TAfCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13025: FindClass('TOBJECT'), 'TAfComPortCoreError
13026: FindClass('TOBJECT'), 'TAfComPortCore
13027: TAfComPortCoreEvent', 'Procedure ( Sender : TAfComPortCore; Event'
13028: +'tKind : TAfCoreEvent; Data : DWORD)
13029: SIRegister_TAfComPortCoreThread(CL);
13030: SIRegister_TAfComPortEventThread(CL);
13031: SIRegister_TAfComPortWriteThread(CL);
13032: SIRegister_TAfComPortCore(CL);
13033: Function FormatDeviceName( PortNumber : Integer ) : string
13034: end;
13035:
13036: procedure SIRegister_ApplicationFileIO(CL: TPSPascalCompiler);
13037: begin
13038:   TAPIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13039:   TAPIOFileExistsEvent', 'Function ( const fileName : String ) : Boolean
13040:   SIRegister_TApplicationFileIO(CL);
13041:   TDataFileCapability', '( dfcRead, dfcWrite )
13042:   TDataFileCapabilities', 'set of TDataFileCapability
13043:   SIRegister_TDatafile(CL);
13044: //TDataFileClass', 'class of TDataFile
13045: Function ApplicationFileIODefined : Boolean
13046: Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13047: Function FileStreamExists(const fileName: String) : Boolean
13048: //Procedure Register
13049: end;
13050:
13051: procedure SIRegister_ALFBXLib(CL: TPSPascalCompiler);
13052: begin
13053:   TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13054:   +', uftCString, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13055:   +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13056:   TALFBXScale', 'Integer
13057:   FindClass('TOBJECT'), 'EALFBXConvertError
13058:   SIRegister_EALFBXError(CL);
13059:   SIRegister_EALFBXException(CL);
13060:   FindClass('TOBJECT'), 'EALFBXGFixError
13061:   FindClass('TOBJECT'), 'EALFBXDSQLError
13062:   FindClass('TOBJECT'), 'EALFBXDynError
13063:   FindClass('TOBJECT'), 'EALFBXBakError
13064:   FindClass('TOBJECT'), 'EALFBXGSecError
13065:   FindClass('TOBJECT'), 'EALFBXLicenseError
13066:   FindClass('TOBJECT'), 'EALFBXGStatError
13067: //EALFBXExceptionClass', 'class of EALFBXError
13068: TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13069:   +'37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13070:   +'csEUCL_0208, csGBC_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13071:   +'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13072:   +'csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13073:   +'sDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13074:   +'4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13075:   +'8859_13, csKOI8R, csWIN1258, csTIS620, csGCP943C )
13076:   TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13077:   +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13078:   +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13079:   +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13080:   TALFBXTransParams', 'set of TALFBXTransParam
13081: Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13082: Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13083: Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13084: 'cALFBXMaxLength', 'LongInt'( 125 );
13085: TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13086: TALFBXParamsFlags', 'set of TALFBXParamsFlag
13087: //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13088: //PALFBXSQLData', '^TALFBXSQLData // will not work
13089: TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete,
13090:   +'stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommi'
13091:   +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13092: SIRegister_TALFBXSQLDA(CL);
13093: //PALFBXPtrArray', '^TALFBXPtrArray // will not work

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13094: SIRegister_TALFBXPoolStream(CL);
13095: //PALFBXBlobData', '^TALFBXBlobData // will not work
13096: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13097: //PALFBXArrayDesc', 'TALFBXArrayDesc // will not work
13098: //TALFBXArrayDesc', 'TISCArryDesc
13099: //TALFBXBlobDesc', 'TISCBlobDesc
13100: //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13101: //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13102: SIRegister_TALFBXSQLResult(CL);
13103: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13104: SIRegister_TALFBXSQLParams(CL);
13105: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13106: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13107: + 'atementType : TALFBXStatementType; end
13108: FindClass('TOBJECT'), 'TALFBXLibrary
13109: //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13110: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13111: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13112: +'Excep : EALFBXExceptionClass)
13113: SIRegister_TALFBXLibrary(CL);
13114: 'cALFBXDateOffset', 'LongInt' ( 15018 );
13115: 'cALFBXTimeCoeff', 'LongInt' ( 864000000 );
13116: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double );
13117: //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp );
13118: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp ) : Double;
13119: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word )
13120: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13121: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp );
13122: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp );
13123: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp );
13124: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer ) : Integer
13125: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord) : Cardinal
13126: TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prIgno )
13127: TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13128: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13129: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13130: end;
13131:
13132: procedure SIRegister_ALFBXClient(CL: TPSPascalCompiler);
13133: begin
13134: TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13135: TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13136: TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13137: + 'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13138: +'teger; First : Integer; CacheThreshold : Integer; end
13139: TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13140: TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13141: TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13142: TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13143: +' writes : int64; page_fetches : int64; page_marks : int64; end
13144: SIRegister_TALFBXClient(CL);
13145: SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13146: SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13147: SIRegister_TALFBXConnectionWithStmtPoolContainer(CL);
13148: SIRegister_TALFBXConnectionWithoutStmtPoolContainer(CL);
13149: SIRegister_TALFBXReadTransactionPoolContainer(CL);
13150: SIRegister_TALFBXReadStatementPoolContainer(CL);
13151: SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13152: SIRegister_TALFBXConnectionPoolClient(CL);
13153: SIRegister_TALFBXEventThread(CL);
13154: Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13155: end;
13156:
13157: procedure SIRegister_ovcBidi(CL: TPSPascalCompiler);
13158: begin
13159: _OSVERSIONINFOA = record
13160: dwOSVersionInfoSize: DWORD;
13161: dwMajorVersion: DWORD;
13162: dwMinorVersion: DWORD;
13163: dwBuildNumber: DWORD;
13164: dwPlatformId: DWORD;
13165: szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13166: end;
13167: TOSversionInfoA', '_OSVERSIONINFOA
13168: TOSversionInfo', 'TOSVersionInfoA
13169: 'WS_EX_RIGHT', 'LongWord') ( $00001000 );
13170: 'WS_EX_LEFT', 'LongWord') ( $00000000 );
13171: 'WS_EX_RTLREADING', 'LongWord') ( $00002000 );
13172: 'WS_EX_LTRREADING', 'LongWord') ( $00000000 );
13173: 'WS_EX_LEFTSCROLLBAR', 'LongWord') ( $00004000 );
13174: 'WS_EX_RIGHTSCROLLBAR', 'LongWord') ( $00000000 );
13175: Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13176: 'LAYOUTRTL', 'LongWord') ( $00000001 );
13177: 'LAYOUT_BTT', 'LongWord') ( $00000002 );
13178: 'LAYOUT_VBH', 'LongWord') ( $00000004 );
13179: 'LAYOUT_BITMAPORIENTATIONPRESERVED', 'LongWord') ( $00000008 );
13180: 'NOMIRRORBITMAP', 'LongWord') ( DWORD ( $80000000 ) );
13181: Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13182: Function GetLayout( dc : hdc ) : DWORD

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13183: Function IsBidi : Boolean
13184: Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo ) : BOOL
13185: Function GetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
13186: Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD ) : BOOL
13187: Function GetPriorityClass( hProcess : THandle ) : DWORD
13188: Function OpenClipboard( hWndNewOwner : HWND ) : BOOL
13189: Function CloseClipboard : BOOL
13190: Function GetClipboardSequenceNumber : DWORD
13191: Function GetClipboardOwner : HWND
13192: Function SetClipboardViewer( hWndNewViewer : HWND ) : HWND
13193: Function GetClipboardViewer : HWND
13194: Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND ) : BOOL
13195: Function SetClipboardData( uFormat : UINT; hMem : THandle ) : THandle
13196: Function GetClipboardData( uFormat : UINT ) : THandle
13197: Function RegisterClipboardFormat( lpszFormat : PChar ) : UINT
13198: Function CountClipboardFormats : Integer
13199: Function EnumClipboardFormats( format : UINT ) : UINT
13200: Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13201: Function EmptyClipboard : BOOL
13202: Function IsClipboardFormatAvailable( format : UINT ) : BOOL
13203: Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer ) : Integer
13204: Function GetOpenClipboardWindow : HWND
13205: Function EndDialog( hDlg : HWND; nResult : Integer ) : BOOL
13206: Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer ) : HWND
13207: Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13208: Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13209: Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar ) : BOOL
13210: Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UINT ) : BOOL
13211: Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer ) : BOOL
13212: Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer ) : UINT
13213: Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13214: end;
13215:
13216: procedure SIRegister_DXPUTils(CL: TPSPascalCompiler);
13217: begin
13218:   Function glExecuteAndWait(cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool):Int;
13219:   Function GetTemporaryFilesPath : String
13220:   Function GetTemporaryFileName : String
13221:   Function FindFileInPaths( const fileName, paths : String ) : String
13222:   Function PathsToString( const paths : TStrings ) : String
13223:   Procedure StringToPaths( const pathsString : String; paths : TStrings )
13224: //Function MacroExpandPath( const aPath : String ) : String
13225: end;
13226:
13227: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13228: begin
13229:   SIRegister_TALMultiPartBaseContent(CL);
13230:   SIRegister_TALMultiPartBaseContents(CL);
13231:   SIRegister_TALMultiPartBaseStream(CL);
13232:   SIRegister_TALMultiPartBaseEncoder(CL);
13233:   SIRegister_TALMultiPartBaseDecoder(CL);
13234:   Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString ) : AnsiString
13235:   Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13236:   Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13237: end;
13238:
13239: procedure SIRegister_SmallUtils(CL: TPSPascalCompiler);
13240: begin
13241:   TdriveSize', 'record FreeS : Int64; Totals : Int64; end
13242:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13243:     +teger; WinMinorVersion :Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13244:   Function aAllocPadedMem( Size : Cardinal ) : TObject
13245:   Procedure aFreePadedMem( var P : TObject );
13246:   Procedure aFreePadedMem1( var P : PChar );
13247:   Function aCheckPadedMem( P : Pointer ) : Byte
13248:   Function aGetPadMemSize( P : Pointer ) : Cardinal
13249:   Function aAllocMem( Size : Cardinal ) : Pointer
13250:   Function aStrLen( const Str : PChar ) : Cardinal
13251:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal ) : PChar
13252:   Function aStrECopy( Dest : PChar; const Source : PChar ) : PChar
13253:   Function aStrCopy( Dest : PChar; const Source : PChar ) : PChar
13254:   Function aStrEnd( const Str : PChar ) : PChar
13255:   Function aStrScan( const Str : PChar; aChr : Char ) : PChar
13256:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal ) : PChar
13257:   Function aPCharLength( const Str : PChar ) : Cardinal
13258:   Function aPCharUpper( Str : PChar ) : PChar
13259:   Function aPCharLower( Str : PChar ) : PChar
13260:   Function aStrCat( Dest : PChar; const Source : PChar ) : PChar
13261:   Function aLastDelimiter( const Delimiters, S : String ) : Integer
13262:   Function aCopyTail( const S : String; Len : Integer ) : String
13263:   Function aInt2Thos( I : Int64 ) : String
13264:   Function aUpperCase( const S : String ) : String
13265:   Function aLowerCase( const S : string ) : String
13266:   Function aCompareText( const S1, S2 : string ) : Integer
13267:   Function aSameText( const S1, S2 : string ) : Boolean
13268:   Function aInt2Str( Value : Int64 ) : String
13269:   Function aStr2Int( const Value : String ) : Int64
13270:   Function aStr2IntDef( const S : string; Default : Int64 ) : Int64
13271:   Function aGetFileExt( const FileName : String ) : String

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13272: Function aGetFilePath( const FileName : String ) : String
13273: Function aGetFileName( const FileName : String ) : String
13274: Function aChangeExt( const FileName, Extension : String ) : String
13275: Function aAdjustLineBreaks( const S : string ) : string
13276: Function aGetWindowStr( WinHandle : HWND ) : String
13277: Function aDiskSpace( Drive : String ) : TdriveSize
13278: Function aFileExists( FileName : String ) : Boolean
13279: Function aFileSize( FileName : String ) : Int64
13280: Function aDirectoryExists( const Name : string ) : Boolean
13281: Function aSysErrorMessage( ErrorCode : Integer ) : string
13282: Function aShortPathName( const LongName : string ) : string
13283: Function aGetWindowVer : TWinVerRec
13284: procedure InitDriveSpacePtr;
13285: end;
13286:
13287: procedure SIRegister_MakeApp(CL: TPPascalCompiler);
13288: begin
13289:   aZero', 'LongInt'( 0 );
13290:   'makeappDEF', 'LongInt'( - 1 );
13291:   'CS_VREDRAW', 'LongInt'( DWORD( 1 ) );
13292:   'CS_HREDRAW', 'LongInt'( DWORD( 2 ) );
13293:   'CS_KEYCVTWINDOW', 'LongInt'( 4 );
13294:   'CS_DBLCLKS', 'LongInt'( 8 );
13295:   'CS_OWNDC', 'LongWord')( $20 );
13296:   'CS_CLASSDC', 'LongWord')( $40 );
13297:   'CS_PARENTDC', 'LongWord')( $80 );
13298:   'CS_NOKEYCWT', 'LongWord')( $100 );
13299:   'CS_NOCLOSE', 'LongWord')( $200 );
13300:   'CS_SAVEBITS', 'LongWord')( $800 );
13301:   'CS_BYTEALIGNCLIENT', 'LongWord')( $1000 );
13302:   'CS_BYTEALIGNWINDOW', 'LongWord')( $2000 );
13303:   'CS_GLOBALCLASS', 'LongWord')( $4000 );
13304:   'CS_IME', 'LongWord')( $10000 );
13305:   'CS_DROP_SHADOW', 'LongWord')( $20000 );
13306:   //TPanelFunc', 'TPanelFunc // will not work
13307:   TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13308:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13309:   TFontLooks', 'set of TFontLook
13310:   TMessagefunc', 'function(hWnd, iMsg, wParam, lParam: Integer): Integer
13311:   Function SetWinClass(const ClassName: String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13312:   Function SetWinClass0( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13313:   Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer) : Word
13314:   Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer): Integer
13315:   Procedure RunMsgLoop( Show : Boolean)
13316:   Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13317:   Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int): Int;
13318:   Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer): Integer
13319:   Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer): Int
13320:   Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Cardinal;Style:TPanelStyle): Int;
13321:   Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13322:   Function id4menu( a, b : Byte; c : Byte; d : Byte) : Cardinal
13323:   Procedure DoInitMakeApp //set first to init formclasscontrol!
13324: end;
13325:
13326: procedure SIRegister_ScreenSaver(CL: TPPascalCompiler);
13327: begin
13328:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13329:     + 'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )'
13330:   TScreenSaverOptions', 'set of TScreenSaverOption
13331:   'cDefaultScreenSaverOptions','LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13332:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13333:   SIRegister_TScreenSaver(CL);
13334:   //Procedure Register
13335:   Procedure SetScreenSaverPassword
13336: end;
13337:
13338: procedure SIRegister_XCollection(CL: TPPascalCompiler);
13339: begin
13340:   FindClass('TOBJECT'), 'TXCollection
13341:   SIRegister_EFilerException(CL);
13342:   SIRegister_TXCollectionItem(CL);
13343:   //TXCollectionItemClass', 'class of TXCollectionItem
13344:   SIRegister_TXCollection(CL);
13345:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13346:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13347:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )
13348:   Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass )
13349:   Function FindXCollectionItemClass( const className : string ) : TXCollectionItemClass
13350:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13351: end;
13352:
13353: procedure SIRegister_XOpenGL(CL: TPPascalCompiler);
13354: begin
13355:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary);
13356:   Procedure xglMapTexCoordToNull
13357:   Procedure xglMapTexCoordToMain

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13358: Procedure xglMapTexCoordToSecond
13359: Procedure xglMapTexCoordToDual
13360: Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13361: Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13362: Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13363: Procedure xglBeginUpdate
13364: Procedure xglEndUpdate
13365: Procedure xglPushState
13366: Procedure xglPopState
13367: Procedure xglForbidSecondTextureUnit
13368: Procedure xglAllowSecondTextureUnit
13369: Function xglGetBitWiseMapping : Cardinal
13370: end;
13371:
13372: procedure SIRegister_VectorLists(CL: TPSPPascalCompiler);
13373: begin
13374:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory)
13375:   TBaseListOptions', 'set of TBaseListOption
13376:   SIRegister_TBaseList(CL);
13377:   SIRegister_TBaseVectorList(CL);
13378:   SIRegister_TAffineVectorList(CL);
13379:   SIRegister_TVectorList(CL);
13380:   SIRegister_TTexPointList(CL);
13381:   SIRegister_TXIntegerList(CL);
13382: //PSingleArrayList', '^TSingleArrayList // will not work
13383:   SIRegister_TSingleList(CL);
13384:   SIRegister_TByteList(CL);
13385:   SIRegister_TQuaternionList(CL);
13386: Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13387: Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13388: Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13389: end;
13390:
13391: procedure SIRegister_MeshUtils(CL: TPSPPascalCompiler);
13392: begin
13393:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13394:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13395:   Procedure ConvertStripToList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13396:   Procedure ConvertIndexedListToList(const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList);
13397:   Function BuildVectorCountOptimizedIndices(const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList) : TIntegerList
13398:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13399:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13400:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList )
13401:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList
13402:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList )
13403:   Procedure RemapIndices( indices, indicesMap : TIntegerList )
13404:   Procedure UnifyTrianglesWinding( indices : TIntegerList )
13405:   Procedure InvertTrianglesWinding( indices : TIntegerList )
13406:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList
13407:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList ) : TIntegerList
13408:   Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single )
13409:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):
TPersistentObjectList;
13410:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer )
13411:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices :
TIntegerList; normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent )
13412: end;
13413:
13414: procedure SIRegister_JclSysUtils(CL: TPSPPascalCompiler);
13415: begin
13416:   Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte )
13417:   Procedure FreeMemAndNil( var P : TObject )
13418:   Function PCharOrNil( const S : string ) : PChar
13419:   SIRegister_TJclReferenceMemoryStream(CL);
13420:   FindClass('TOBJECT'), 'EJclVMTError
13421: {Function GetVirtualMethodCount( AClass : TClass ) : Integer
13422: Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13423: Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer )
13424: PDynamicIndexList', '^TDynamicIndexList // will not work
13425: PDynamicAddressList', '^TDynamicAddressList // will not work
13426: Function GetDynamicMethodCount( AClass : TClass ) : Integer
13427: Function GetDynamicIndexList( AClass : TClass ) : PDYNAMICIndexList
13428: Function GetDynamicAddressList( AClass : TClass ) : PDYNAMICAddressList
13429: Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean
13430: Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13431: Function GetInitTable( AClass : TClass ) : PTypeInfo
13432: PFieldEntry', '^TFieldEntry // will not work)
13433: TFieldEntry', 'record Offset : Integer; IDX : Word; Name : ShortString; end
13434: Function JIsClass( Address : Pointer ) : Boolean
13435: Function JIsObject( Address : Pointer ) : Boolean
13436: Function GetImplementorOfInterface( const I : IInterface ) : TObject
13437: TdigitCount', 'Integer
13438: SIRegister_TJclNumericFormat(CL);
13439: Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString

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13440: TTextHandler', 'Procedure ( const Text : string )
13441: // 'ABORT_EXIT_CODE', 'LongInt'( ERROR_CANCELLED 1223 );
13442: Function JExecute( const
13443:   CommandLine: string; OutputLineCallback: TTextHandler; RawOutput: Bool; AbortPtr: PBool ): Card;
13444: Function JExecute( const CommandLine: string; var Output: string; RawOutput: Bool; AbortPtr: PBool ): Cardinal;
13445: Function ReadKey : Char //to and from the DOS console !
13446: TModuleHandle', 'HINST
13447: //TModuleHandle', 'Pointer
13448: Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13449: Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13450: Procedure UnloadModule( var Module : TModuleHandle )
13451: Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13452: Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13453: Function ReadModuleData( Module: TModuleHandle; SymbolName:string; var Buffer,Size: Cardinal):Boolean;
13454: Function WriteModuleData( Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13455: FindClass('TOBJECT'), 'EJclConversionError
13456: Function JStrToBoolean( const S : string ) : Boolean
13457: Function JBooleanToStr( B : Boolean ) : string
13458: Function JIntToBool( I : Integer ) : Boolean
13459: Function JBoolToInt( B : Boolean ) : Integer
13460: 'ListSeparator', 'String '
13461: 'ListSeparator1', 'String '
13462: Procedure ListAddItems( var List : string; const Separator, Items : string )
13463: Procedure ListIncludeItems( var List : string; const Separator, Items : string )
13464: Procedure ListRemoveItems( var List : string; const Separator, Items : string )
13465: Procedure ListDeleteItem( var List : string; const Separator : string; const Index : Integer )
13466: Function ListItemCount( const List, Separator : string ) : Integer
13467: Function ListGetItem( const List, Separator : string; const Index : Integer ) : string
13468: Procedure ListSetItem( var List:string;const Separator:string;const Index:Integer;const Value:string )
13469: Function ListItemIndex( const List, Separator, Item : string ) : Integer
13470: Function SystemTOBJECTInstance : LongWord
13471: Function IsCompiledWithPackages : Boolean
13472: Function JJclGUIDToString( const GUID : TGUID ) : string
13473: Function JJclStringToGUID( const S : string ) : TGUID
13474: SIRegister_TJclIntfCriticalSection(CL);
13475: SIRegister_TJclSimpleLog(CL);
13476: Procedure InitSimpleLog( const ALogFileFileName : string )
13477: end;
13478:
13479: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13480: begin
13481:   FindClass('TOBJECT'), 'EJclBorRADException
13482:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )
13483:   TJclBorRADToolEdition', '( deOPEN, dePRO, deSVR )
13484:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )
13485:   TJclBorRADToolPath', 'string
13486:   'SupportedDelphiVersions', 'LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11 );
13487:   'SupportedBCBVersions', 'LongInt'( 5 or 6 or 10 or 11 );
13488:   'SupportedBDSVersions', 'LongInt'( 1 or 2 or 3 or 4 or 5 );
13489:   BorRADToolRepositoryPagesSection', 'String 'Repository Pages
13490:   BorRADToolRepositoryDialogsPage', 'String 'Dialogs
13491:   BorRADToolRepositoryFormsPage', 'String 'Forms
13492:   BorRADToolRepositoryProjectsPage', 'String 'Projects
13493:   BorRADToolRepositoryDataModulesPage', 'String 'Data Modules
13494:   BorRADToolRepositoryObjectType', 'String 'Type
13495:   BorRADToolRepositoryFormTemplate', 'String 'FormTemplate
13496:   BorRADToolRepositoryProjectTemplate', 'String 'ProjectTemplate
13497:   BorRADToolRepositoryObjectName', 'String 'Name
13498:   BorRADToolRepositoryObjectPage', 'String 'Page
13499:   BorRADToolRepositoryObjectIcon', 'String 'Icon
13500:   BorRADToolRepositoryObjectDescr', 'String 'Description
13501:   BorRADToolRepositoryObjectAuthor', 'String 'Author
13502:   BorRADToolRepositoryObjectAncestor', 'String 'Ancestor
13503:   BorRADToolRepositoryObjectDesigner', 'String 'Designer
13504:   BorRADToolRepositoryDesignerDfm', 'String 'dfm
13505:   BorRADToolRepositoryDesignerXfm', 'String 'xmf
13506:   BorRADToolRepositoryObjectNewForm', 'String 'DefaultNewForm
13507:   BorRADToolRepositoryObject MainForm', 'String 'DefaultMainForm
13508:   SourceExtensionDelphiPackage', 'String '.dpk
13509:   SourceExtensionBCBPackage', 'String '.bpk
13510:   SourceExtensionDelphiProject', 'String '.dpr
13511:   SourceExtensionBCBProject', 'String '.bpr
13512:   SourceExtensionBDSProject', 'String '.bdsproj
13513:   SourceExtensionDProject', 'String '.dproj
13514:   BinaryExtensionPackage', 'String '.bpl
13515:   BinaryExtensionLibrary', 'String '.dll
13516:   BinaryExtensionExecutable', 'String '.exe
13517:   CompilerExtensionDCP', 'String '.dcp
13518:   CompilerExtensionBPI', 'String '.bpi
13519:   CompilerExtensionLIB', 'String '.lib
13520:   CompilerExtensionTDS', 'String '.tds
13521:   CompilerExtensionMAP', 'String '.map
13522:   CompilerExtensionDRC', 'String '.drc
13523:   CompilerExtensionDEF', 'String '.def
13524:   SourceExtensionCPP', 'String '.cpp
13525:   SourceExtensionH', 'String '.h
13526:   SourceExtensionPAS', 'String '.pas
13527:   SourceExtensionDFM', 'String '.dfm

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13528: SourceExtensionXFM', 'String '.xfm
13529: SourceDescriptionPAS', 'String 'Pascal source file
13530: SourceDescriptionCPP', 'String 'C++ source file
13531: DesignerVCL', 'String 'VCL
13532: DesignerCLX', 'String 'CLX
13533: ProjectTypePackage', 'String 'package
13534: ProjectTypeLibrary', 'String 'library
13535: ProjectTypeProgram', 'String 'program
13536: Personality32Bit', 'String '32 bit
13537: Personality64Bit', 'String '64 bit
13538: PersonalityDelphi', 'String 'Delphi
13539: PersonalityDelphiDotNet', 'String 'Delphi.net
13540: PersonalityBCB', 'String 'C++Builder
13541: PersonalityCSB', 'String 'C#Builder
13542: PersonalityVB', 'String 'Visual Basic
13543: PersonalityDesign', 'String 'Design
13544: PersonalityUnknown', 'String 'Unknown personality
13545: PersonalityBDS', 'String 'Borland Developer Studio
13546: DOFDirectoriesSection', 'String 'Directories
13547: DOFUnitOutputDirKey', 'String 'UnitOutputDir
13548: DOFSearchPathName', 'String 'SearchPath
13549: DOFConditionals', 'String 'Conditionals
13550: DOFLinkerSection', 'String 'Linker
13551: DOFPackagesKey', 'String 'Packages
13552: DOFCompilerSection', 'String 'Compiler
13553: DOFPackageNoLinkKey', 'String 'PackageNoLink
13554: DOFAdditionalSection', 'String 'Additional
13555: DOFOptionsKey', 'String 'Options
13556: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13557: +'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13558: +'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13559: TJclBorPersonalities', 'set of TJclBorPersonality
13560: TJclBorDesigner', '( bdVCL, bdCLX )
13561: TJclBorDesigners', 'set of TJclBorDesigner
13562: TJclBorPlatform', '( bp32bit, bp64bit )
13563: FindClass('TOBJECT'), 'TJclBorRADToolInstallation
13564: SIRegister_TJclBorRADToolInstallationObject(CL);
13565: SIRegister_TJclBorLandOpenHelp(CL);
13566: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13567: TJclHelp2Objects', 'set of TJclHelp2Object
13568: SIRegister_TJclHelp2Manager(CL);
13569: SIRegister_TJclBorRADToolIDETool(CL);
13570: SIRegister_TJclBorRADToolIDEPackages(CL);
13571: SIRegister_IJclCommandLineTool(CL);
13572: FindClass('TOBJECT'), 'EJclCommandLineToolError
13573: SIRegister_TJclCommandLineTool(CL);
13574: SIRegister_TJclBorLandCommandLineTool(CL);
13575: SIRegister_TJclBCC32(CL);
13576: SIRegister_TJclDCC32(CL);
13577: TJclDCC', 'TJclDCC32
13578: SIRegister_TJclBpr2Mak(CL);
13579: SIRegister_TJclBorLandMake(CL);
13580: SIRegister_TJclBorRADToolPalette(CL);
13581: SIRegister_TJclBorRADToolRepository(CL);
13582: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13583: TCommandLineTools', 'set of TCommandLineTool
13584: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13585: SIRegister_TJclBorRADToolInstallation(CL);
13586: SIRegister_TJclBCBInstallation(CL);
13587: SIRegister_TJclDelphiInstallation(CL);
13588: SIRegister_TJclDCCL(CL);
13589: SIRegister_TJclBDSInstallation(CL);
13590: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13591: SIRegister_TJclBorRADToolInstallations(CL);
13592: Function BPLFileName( const BPLPath, PackageFileName : string ) : string
13593: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13594: Function IsDelphiPackage( const FileName : string ) : Boolean
13595: Function IsDelphiProject( const FileName : string ) : Boolean
13596: Function IsBCBPackage( const FileName : string ) : Boolean
13597: Function IsBCEBProject( const FileName : string ) : Boolean
13598: Procedure GetDPRFileInfo( const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString );
13599: Procedure GetBPRFileInfo( const BPRFileName:string;out BinaryFileName:string;const Descript:PString );
13600: Procedure GetDPKFileInfo( const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString );
13601: Procedure GetBPKFileInfo( const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13602: function SamePath(const Path1, Path2: string): Boolean;
13603: end;
13604:
13605: procedure SIRegister_JclFileUtils_max(CL: TPSpascalCompiler);
13606: begin
13607: 'ERROR_NO_MORE_FILES', 'LongInt'( 18 );
13608: //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13609: //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64 ) : Integer
13610: //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13611: 'LPathSeparator','String '/
13612: 'LDirDelimiter','String '/
13613: 'LDirSeparator','String ':/
13614: 'JXPathDevicePrefix','String '\.\.

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13615: 'JXPathSeparator','String '\
13616: 'JXDirDelimiter','String '\
13617: 'JXDirSeparator','String ';\
13618: 'JXPathUncPrefix','String '\\
13619: 'faNormalFile','LongWord')($00000080);\
13620: //faUnixSpecific','faSymLink);
13621: JXTCompactPath', ('cpCenter, cpEnd )
13622: _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13623: +'tCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime : '
13624: +' TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13625: TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13626: WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13627:
13628: Function jxPathAddSeparator( const Path : string ) : string
13629: Function jxPathAddExtension( const Path, Extension : string ) : string
13630: Function jxPathAppend( const Path, Append : string ) : string
13631: Function jxPathBuildRoot( const Drive : Byte) : string
13632: Function jxPathCanonicalize( const Path : string ) : string
13633: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13634: Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13635: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
13636: Function jxPathExtractFileDirFixed( const S : string ) : string
13637: Function jxPathExtractFileNameNoExt( const Path : string ) : string
13638: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13639: Function jxPathGetDepth( const Path : string ) : Integer
13640: Function jxPathGetLongName( const Path : string ) : string
13641: Function jxPathGetShortName( const Path : string ) : string
13642: Function jxPathGetLongName( const Path : string ) : string
13643: Function jxPathGetShortName( const Path : string ) : string
13644: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13645: Function jxPathGetTempPath : string
13646: Function jxPathIsAbsolute( const Path : string ) : Boolean
13647: Function jxPathIsChild( const Path, Base : string ) : Boolean
13648: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13649: Function jxPathIsUNC( const Path : string ) : Boolean
13650: Function jxPathRemoveSeparator( const Path : string ) : string
13651: Function jxPathRemoveExtension( const Path : string ) : string
13652: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13653: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13654: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders)
13655: JxTFileListOptions', 'set of TFileListOption
13656: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13657: TFileHandler', 'Procedure ( const FileName : string )
13658: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec)
13659: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13660: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
FileMatchFunc:TFileMatchFunc):Bool;
13661: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13662: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13663: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13664: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13665: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : Tobject)
13666: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13667: Procedure jxCreateEmptyFile( const FileName : string )
13668: Function jxCloseVolume( var Volume : THandle ) : Boolean
13669: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13670: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13671: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13672: Function jxDelTree( const Path : string ) : Boolean
13673: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean, Progress:TDelTreeProgress):Boolean
13674: Function jxDiskInDrive( Drive : Char ) : Boolean
13675: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13676: Function jxFileCreateTemp( var Prefix : string ) : THandle
13677: Function jxFileBackup( const FileName : string; Move : Boolean ) : Boolean
13678: Function jxFileCopy( const ExistingFileName, NewfileName : string; ReplaceExisting : Boolean ) : Boolean
13679: Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13680: Function jxFileExists( const FileName : string ) : Boolean
13681: Function jxFileMove( const ExistingFileName, NewfileName : string; ReplaceExisting : Boolean ) : Boolean
13682: Function jxFileRestore( const FileName : string ) : Boolean
13683: Function jxGetBackupFileName( const FileName : string ) : string
13684: Function jxIsBackupFileName( const FileName : string ) : Boolean
13685: Function jxFileGetDisplayName( const FileName : string ) : string
13686: Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13687: Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13688: Function jxFileGetSize( const FileName : string ) : Int64
13689: Function jxFileGetTempName( const Prefix : string ) : string
13690: Function jxFileGetType( const FileName : string ) : string
13691: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string ) : string
13692: Function jxForceDirectories( Name : string ) : Boolean
13693: Function jxGetDirectorySize( const Path : string ) : Int64
13694: Function jxGetDriveTypeStr( const Drive : Char ) : string
13695: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13696: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer )
13697: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer )
13698: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13699: Function jxGetFileInfo1( const FileName : string ) : TSearchRec;

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13700: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
13701:   ResolveSymLinks:Boolean):Integer
13702: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13703: Function jxGetFileLastWrite1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13704: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13705: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13706: Function jxGetFileCreation( const FName : string ) : TFileTime;
13707: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13708: Function jxGetFileLastWrite( const FName : string;out TimeStamp:Integer;ResolveSymLinks : Bool):Bool;
13709: Function jxGetFileLastWrite1( const FName: string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13710: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13711: Function jxGetFileLastAccess( const FName:string; outTimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13712: Function jxGetFileLastAccess1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13713: Function jxGetFileLastAttrChange( const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13714: Function jxGetFileLastAttrChange1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13715: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks:Boolean ) : Integer;
13716: Function jxGetModulePath( const Module : HMODULE ) : string
13717: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13718: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13719: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13720: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileAttributeData
13721: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean
13722: Function jxIsRootDirectory( const CanonicalFileName : string ) : Boolean
13723: Function jxLockVolume( const Volume : string; var Handle : THandle ) : Boolean
13724: Function jxOpenVolume( const Drive : Char ) : THandle
13725: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
13726: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
13727: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
13728: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
13729: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
13730: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
13731: Procedure jxShredfile( const FileName : string; Times : Integer )
13732: Function jxUnlockVolume( var Handle : THandle ) : Boolean
13733: Function jxCreatSymbolicLink( const Name, Target : string ) : Boolean
13734: Function jxSymbolicLinkTarget( const Name : string ) : string
13735: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )
13736: SIRegister_TJclCustomFileAttrMask(CL);
13737: SIRegister_TJclFileAttributeMask(CL);
13738: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS'
13739: +'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)
13740: TFileSearchOptions', 'set of TFileSearchOption
13741: TFileSearchTaskID', 'Integer
13742: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc'
13743: +'hTaskID; const Aborted : Boolean)
13744: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )
13745: SIRegister_IJclFileEnumerator(CL);
13746: SIRegister_TJclFileEnumerator(CL);
13747: Function JxFfileSearch : IJclFileEnumerator
13748: JxFfileFlag', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )
13749: JxFfileFlags', 'set of TFileFlag
13750: FindClass('TOBJECT'), 'EJclFileVersionInfoError
13751: SIRegister_TJclFileVersionInfo(CL);
13752: Function jxOSIdentToString( const OSIdent : DWORD ) : string
13753: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
13754: Function jxVersionResourceAvailable( const FileName : string ) : Boolean
13755: TFileVersionFormat', '( vfMajorMinor, vfFull )
13756: Function jxFormatVersionString( const HiV, LoV : Word ) : string;
13757: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13758: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo;VersionFormat:TFFileVersionFormat):str;
13759: //Procedure VersionExtractFileInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13760: //Procedure VersionExtractProductInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,
13761: Revision:Word);
13762: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo ) : Boolean
13763: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
13764: NotAvailableText : string ) : string
13765: SIRegister_TJclTempFileStream(CL);
13766: FindClass('TOBJECT'), 'TJclCustomFileMapping
13767: SIRegister_TJclFileMappingView(CL);
13768: TJclFileMappingRoundOffset', '( rvDown, rvUp )
13769: SIRegister_TJclCustomFileMapping(CL);
13770: SIRegister_TJclFileMapping(CL);
13771: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )
13772: //PPCharArray', '^TPCharArray // will not work
13773: SIRegister_TJclMappedTextReader(CL);
13774: SIRegister_TJclFileMaskComparator(CL);
13775: FindClass('TOBJECT'), 'EJclPathError
13776: FindClass('TOBJECT'), 'EJclFileUtilsError
13777: FindClass('TOBJECT'), 'EJclTempFileStreamError
13778: FindClass('TOBJECT'), 'EJclTempFileStreamError
13779: FindClass('TOBJECT'), 'EJclFileMappingError
13780: FindClass('TOBJECT'), 'EJclFileMapViewError
13781: Function jxPathGetLongName2( const Path : string ) : string
13782: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13783: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string ) : Boolean
13784: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean
13785: Function jxWin32RestoreFile( const FileName : string ) : Boolean

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13786: Function jxSamePath( const Path1, Path2 : string ) : Boolean
13787: Procedure jxPathListAddItems( var List : string; const Items : string )
13788: Procedure jxPathListIncludeItems( var List : string; const Items : string )
13789: Procedure jxPathListDeleteItems( var List : string; const Items : string )
13790: Procedure jxPathListDeleteItem( var List : string; const Index : Integer )
13791: Function jxPathListItemCount( const List : string ) : Integer
13792: Function jxPathListGetItem( const List : string; const Index : Integer ) : string
13793: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string )
13794: Function jxPathListIndex( const List, Item : string ) : Integer
13795: Function jxParamName(Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string
13796: Function jxParamValue(Index : Integer; const Separator : string; TrimValue : Boolean) : string;
13797: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13798: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string ) : Integer
13799: end;
13800:
13801: procedure SIRegister_FileUtil(CL: TPSPPascalCompiler);
13802: begin
13803:   'UTF8FileHeader','String #$ef#$bb#$bf';
13804:   Function lCompareFilenames( const Filenam1, Filenam2 : string ) : integer
13805:   Function lCompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string ) : integer
13806:   Function lCompareFilenames( const Filenam1, Filenam2 : string; ResolveLinks : boolean ) : integer
13807:   Function lCompareFilenames(Filenam1:PChar;Len1:int;Filenam2:PChar;Len2:int;ResolveLinks:boolean):int;
13808:   Function lFilenameIsAbsolute( const Thefilename : string ) : boolean
13809:   Function lFilenameIsWinAbsolute( const Thefilename : string ) : boolean
13810:   Function lFilenameIsUnixAbsolute( const Thefilename : string ) : boolean
13811:   Procedure lCheckIfFileIsExecutable( const AFilename : string )
13812:   Procedure lCheckIfFileIsSymlink( const AFilename : string )
13813:   Function lFileIsReadable( const AFilename : string ) : boolean
13814:   Function lFileIsWritable( const AFilename : string ) : boolean
13815:   Function lFileIsText( const AFilename : string ) : boolean
13816:   Function lFileIsText( const AFilename : string; out FileReadable : boolean ) : boolean
13817:   Function lFileIsExecutable( const AFilename : string ) : boolean
13818:   Function lFileIsSymlink( const AFilename : string ) : boolean
13819:   Function lFileIsHardLink( const AFilename : string ) : boolean
13820:   Function lFileSize( const Filenam : string ) : int64;
13821:   Function lGetFileDescription( const AFilename : string ) : string
13822:   Function lReadAllLinks( const Filenam : string; ExceptionOnError : boolean ) : string
13823:   Function lTryReadAllLinks( const Filenam : string ) : string
13824:   Function lDirPathExists( const FileName : String ) : Boolean
13825:   Function lForceDirectory( DirectoryName : string ) : boolean
13826:   Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13827:   Function lProgramDirectory : string
13828:   Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13829:   Function lExtractFileNameOnly( const AFilename : string ) : string
13830:   Function lExtractFileNameWithoutExt( const AFilename : string ) : string
13831:   Function lCompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean ) : integer;
13832:   Function lCompareFileExt( const Filenam, Ext : string ) : integer;
13833:   Function lFilenameIsPascalUnit( const Filenam : string ) : boolean
13834:   Function lAppendPathDelim( const Path : string ) : string
13835:   Function lChompPathDelim( const Path : string ) : string
13836:   Function lTrimFilename( const AFilename : string ) : string
13837:   Function lCleanAndExpandFilename( const Filenam : string ) : string
13838:   Function lCleanAndExpandDirectory( const Filenam : string ) : string
13839:   Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
13840:   Function lCreateRelativePath( const Filenam, BaseDirectory : string; UsePointDirectory : boolean;
    AlwaysRequireSharedBaseFolder : Boolean ) : string
13841:   Function lCreateAbsolutePath( const Filenam, BaseDirectory : string ) : string
13842:   Function lFileIsInPath( const Filenam, Path : string ) : boolean
13843:   Function lFileIsInDirectory( const Filenam, Directory : string ) : boolean
13844:   TSearchFileInPathFlag', '( sffDontSearchInBasePath, sffSearchLoUpCase )
13845:   TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13846:   'AllDirectoryEntriesMask','String '*
13847:   Function l GetAllFilesMask : string
13848:   Function lGetExeExt : string
13849:   Function lSearchFileInPath( const Filenam, BasePath, SearchPath, Delimiter : string; Flags :
    TSearchFileInPathFlags ) : string
13850:   Function lSearchAllFilesInPath( const Filenam, BasePath, SearchPath, Delimiter:string;Flags :
    TSearchFileInPathFlags ) : TStrings
13851:   Function lFindDiskFilename( const Filenam : string ) : string
13852:   Function lFindDiskFileCaseInsensitive( const Filenam : string ) : string
13853:   Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13854:   Function lGetDarwinSystemFilename( Filenam : string ) : string
13855:   SIRegister_TFileIterator(CL);
13856:   TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13857:   TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13858:   TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator )
13859:   SIRegister_TFileSearcher(CL);
13860:   Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13861:   Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
13862:   // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13863:   // TCopyFileFlags', 'set of TCopyFileFlag
13864:   Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags) : boolean
13865:   Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean
13866:   Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13867:   Function lReadFileToString( const Filenam : string ) : string
13868:   Function lGetTempFilename( const Directory, Prefix : string ) : string
13869:   {Function NeedRTLAnsi : boolean

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13870: Procedure SetNeedRTLAnsi( NewValue : boolean)
13871: Function UTF8ToSys( const s : string) : string
13872: Function SysToUTF8( const s : string) : string
13873: Function ConsoleToUTF8( const s : string) : string
13874: Function UTF8ToConsole( const s : string) : string)
13875: Function FileExistsUTF8( const Filename : string) : boolean
13876: Function FileAgeUTF8( const FileName : string) : Longint
13877: Function DirectoryExistsUTF8( const Directory : string) : Boolean
13878: Function ExpandFileNameUTF8( const FileName : string) : string
13879: Function ExpandUNCfileNameUTF8( const FileName : string) : string
13880: Function ExtractShortPathNameUTF8( const FileName : String) : String
13881: Function FindFirstUTF8( const Path: string; Attr : Longint; out Rslt : TSearchRec) : Longint
13882: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13883: Procedure FindCloseUTF8( var F : TSearchrec)
13884: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
13885: Function FileGetAttrUTF8( const FileName : String) : Longint
13886: Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
13887: Function DeleteFileUTF8( const FileName : String) : Boolean
13888: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
13889: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
13890: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
13891: Function GetCurrentDirUTF8 : String
13892: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
13893: Function CreateDirUTF8( const NewDir : String) : Boolean
13894: Function RemoveDirUTF8( const Dir : String) : Boolean
13895: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
13896: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
13897: Function FileCreateUTF8( const FileName : string) : THandle;
13898: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
13899: Function ParamStrUTF8( Param : Integer) : string
13900: Function GetEnvironmentStringUTF8( Index : Integer) : string
13901: Function GetEnvironmentVariableUTF8( const EnvVar : string) : String
13902: Function GetAppConfigDirUTF8( Global: Boolean; Create : boolean) : string
13903: Function GetAppConfigFileUTF8(Global:Boolean; SubDir:boolean; CreateDir : boolean) : string
13904: Function SysErrorMessageUTF8( ErrorCode : Integer) : String
13905: end;
13906:
13907: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13908: begin
13909:   //VK_F23 = 134;
13910:   //{$EXTERNALSYM VK_F24}
13911:   //VK_F24 = 135;
13912:   TVirtualKeyCode', 'Integer
13913:   'VK_MOUSEWHEELUP','integer'(134);
13914:   'VK_MOUSEWHEELDOWN','integer'(135);
13915:   Function glIsKeyDown( c : Char) : Boolean;
13916:   Function glIsKeyDown1( vk : TVirtualKeyCode) : Boolean;
13917:   Function glKeyPressed( minVkeyCode : TVirtualKeyCode) : TVirtualKeyCode
13918:   Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode) : String
13919:   Function glKeyNameToVirtualKeyCode( const keyName : String) : TVirtualKeyCode
13920:   Function glCharToVirtualKeyCode( c : Char) : TVirtualKeyCode
13921:   Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer)
13922: end;
13923:
13924: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13925: begin
13926:   TGLPoint', 'TPoint
13927:   //PGLPoint', '^TGLPoint // will not work
13928:   TGLRect', 'TRect
13929:   //PGLRect', '^TGLRect // will not work
13930:   TDelphiColor', 'TColor
13931:   TGLPicture', 'TPicture
13932:   TGLGraphic', 'TGraphic
13933:   TGLBitmap', 'TBitmap
13934:   //TGraphicClass', 'class of TGraphic
13935:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13936:   TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
13937:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13938:     +'Button; Shift : TShiftState; X, Y : Integer)
13939:   TGLMouseMoveEvent', 'TMouseEvent
13940:   TGLKeyEvent', 'TKeyEvent
13941:   TGLKeyPressEvent', 'TKeyPressEvent
13942:   EGLOSError', 'EWin32Error
13943:   EGLOSError', 'EWin32Error
13944:   EGLOSError', 'EOSError
13945:   'gl$AllFilter', 'string'All // $AllFilter
13946:   Function GLPoint( const x, y : Integer) : TGLPoint
13947:   Function GLRGB( const r, g, b : Byte) : TColor
13948:   Function GLColorToRGB( color : TColor) : TColor
13949:   Function GLGetRValue( rgb : DWORD) : Byte
13950:   Function GLGetGValue( rgb : DWORD) : Byte
13951:   Function GLGetBValue( rgb : DWORD) : Byte
13952:   Procedure GLInitWinColors
13953:   Function GLRect( const aLeft, aTop, aRight, aBottom : Integer) : TGLRect
13954:   Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer)
13955:   Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect)
13956:   Procedure GLInformationDlg( const msg : String)
13957:   Function GLQuestionDlg( const msg : String) : Boolean
13958:   Function GLInputDialog( const aCaption, aPrompt, aDefault : String) : String

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13959: Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13960: Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13961: Function GLApplicationTerminated : Boolean
13962: Procedure GLRaiseLastOSError
13963: Procedure GLFreeAndNil( var anObject: TObject )
13964: Function GLGetDeviceLogicalPixelsX( device : Cardinal ) : Integer
13965: Function GLGetCurrentColorDepth : Integer
13966: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
13967: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
13968: Procedure GLSleep( length : Cardinal )
13969: Procedure GLQueryPerformanceCounter( var val : Int64 )
13970: Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
13971: Function GLStartPrecisionTimer : Int64
13972: Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
13973: Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double
13974: Function GLRTSC : Int64
13975: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string )
13976: Function GLOKMessageBox( const Text, Caption : string ) : Integer
13977: Procedure GLShowHTMLUrl( Url : String )
13978: Procedure GLShowCursor( AShow : boolean )
13979: Procedure GLSetCursorPos( AScreenX, AScreenY : integer )
13980: Procedure GLGetCursorPos( var point : TGLPoint )
13981: Function GLGetScreenWidth : integer
13982: Function GLGetScreenHeight : integer
13983: Function GLGetTickCount : int64
13984: function RemoveSpaces(const str : String) : String;
13985:   TNormalMapSpace'( nmsObject, nmsTangent )
13986: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList:Colors:TVectorList)
13987: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList )
13988: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals : TAffineVectorList; Colors : TVectorList )
13989: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
13990:   HiTexCoords:TAffineVectorList):TGLBitmap
13990: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
13991:   LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
13991: end;
13992:
13993: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
13994: begin
13995:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
13996: // PGLStarRecord', '^TGLStarRecord // will not work
13997: Function StarRecordPositionZUp( const starRecord : TGLStarRecord ) : TAffineVector
13998: Function StarRecordPositionYUp( const starRecord : TGLStarRecord ) : TAffineVector
13999: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
14000: end;
14001:
14002:
14003: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
14004: begin
14005:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
14006: //PAABB', '^TAABB // will not work
14007: TBSphere', 'record Center : TAffineVector; Radius : single; end
14008: TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
14009: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14010: Function AddBB( var cl : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14011: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB )
14012: Procedure SetBB( var c : THmgBoundingBox; const v : TVector )
14013: Procedure SetAABB( var bb : TAABB; const v : TVector )
14014: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix )
14015: Procedure AABBTransform( var bb : TAABB; const m : TMatrix )
14016: Procedure AABBScale( var bb : TAABB; const v : TAffineVector )
14017: Function BBMinX( const c : THmgBoundingBox ) : Single
14018: Function BBMaxX( const c : THmgBoundingBox ) : Single
14019: Function BBMinY( const c : THmgBoundingBox ) : Single
14020: Function BBMaxY( const c : THmgBoundingBox ) : Single
14021: Function BBMinZ( const c : THmgBoundingBox ) : Single
14022: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14023: Procedure AABBInclude( var bb : TAABB; const p : TAffineVector )
14024: Procedure AABBFromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single )
14025: Function AABBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14026: Function BBTAAABB( const aBB : THmgBoundingBox ) : TAABB
14027: Function AABBToBB( const anAABB : TAABB ) : THmgBoundingBox
14028: Function AABBToBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox
14029: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector );
14030: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector );
14031: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14032: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14033: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14034: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14035: Function AABBfitsInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14036: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14037: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14038: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14039: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14040: Procedure ExtractAABCorners( const AABB : TAABB; var ABCorners : TAABCorners )
14041: Procedure AABBToBSphere( const AABB : TAABB; var BSphere : TBSphere )
14042: Procedure BSphereToAABB( const BSphere : TBSphere; var AABB : TAABB );
14043: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14044: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;

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14045: Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
14046: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains
14047: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains
14048: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains
14049: Function PlaneContainsBSphere( const Location,Normal:TAffineVector;const
testBSphere:TBSphere):TSpaceContains
14050: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains
14051: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14052: Function ClipToAABB( const v : TAffineVector; const AABB : TAABB ) : TAffineVector
14053: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean
14054: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single)
14055: Function AABBToclipRect(const aabb:TAABB;modelViewProjection:TMATRIX;viewportSizeX,
viewportSizeY:Int):TClipRect
14056: end;
14057:
14058: procedure SIRegister_GeometryCoordinates(CL: TPPascalCompiler);
14059: begin
14060: Procedure Cylindrical_Cartesian( const r, theta, zl : single; var x, y, z : single);
14061: Procedure Cylindrical_Cartesian1( const r, theta, zl : double; var x, y, z : double);
14062: Procedure Cylindrical_Cartesian2( const r,theta,zl : single; var x, y, z : single; var ierr : integer);
14063: Procedure Cylindrical_Cartesian3( const r,theta,zl : double; var x, y, z : double; var ierr : integer);
14064: Procedure Cartesian_Cylindrical( const x, y, zl : single; var r, theta, z : single);
14065: Procedure Cartesian_Cylindrical1( const x, y, zl : double; var r, theta, z : double);
14066: Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single);
14067: Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double);
14068: Procedure Spherical_Cartesian2( const r,theta, phi : single; var x, y, z : single; var ierr : integer);
14069: Procedure Spherical_Cartesian3( const r,theta, phi : double; var x, y, z : double; var ierr : integer);
14070: Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single);
14071: Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single);
14072: Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double);
14073: Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14074: Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14075: Procedure ProlateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer);
14076: Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer);
14077: Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14078: Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14079: Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer);
14080: Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer);
14081: Procedure BipolarCylindrical_Cartesian( const u, v, zl, a : single; var x, y, z : single);
14082: Procedure BipolarCylindrical_Cartesian1( const u, v, zl, a : double; var x, y, z : double);
14083: Procedure BipolarCylindrical_Cartesian2( const u,v,zl,a: single;var x,y,z:single; var ierr : integer);
14084: Procedure BipolarCylindrical_Cartesian3( const u,v,zl,a: double;var x,y,z:double; var ierr : integer);
14085: end;
14086:
14087: procedure SIRegister_VectorGeometry(CL: TPPascalCompiler);
14088: begin
14089: 'EPSILON','Single').setExtended( 1e-40);
14090: 'EPSILON2','Single').setExtended( 1e-30); }
14091: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14092: + 'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14093: THmgPlane', 'TVector
14094: TDoubleHmgPlane', 'THomogeneousDblVector
14095: {TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14096: +'XZ, ttShearyZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14097: +', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14098: TSingleArray', 'array of Single
14099: TTransformations', 'array [0..15] of Single)
14100: TPackedRotationMatrix', 'array [0..2] of Smallint)
14101: TVertex', 'TAffineVector
14102: //TVectorGL', 'THomogeneousFltVector
14103: //TMATRIXGL', 'THomogeneousFltMatrix
14104: // TPackedRotationMatrix = array [0..2] of SmallInt;
14105: Function glTexPointMake( const s, t : Single ) : TTExPoint
14106: Function glAffineVectorMake( const x, y, z : Single ) : TAffineVector;
14107: Function glAffineVectorMakel( const v : TVectorGL ) : TAffineVector;
14108: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single );
14109: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single );
14110: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL );
14111: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector );
14112: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector );
14113: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL );
14114: Function glVectorMake( const v : TAffineVector; w : Single ) : TVectorGL;
14115: Function glVectorMakel( const x, y, z : Single; w : Single ) : TVectorGL;
14116: Function glPointMake( const x, y, z : Single ) : TVectorGL;
14117: Function glPointMakel( const v : TAffineVector ) : TVectorGL;
14118: Function glPointMake2( const v : TVectorGL ) : TVectorGL;
14119: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single );
14120: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single );
14121: Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL );
14122: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single );
14123: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector );
14124: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL );
14125: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single );
14126: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single );
14127: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector );
14128: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL );
14129: Procedure glRstVector( var v : TAffineVector );
14130: Procedure glRstVector1( var v : TVectorGL );
14131: Function glVectorAdd( const v1, v2 : TAffineVector ) : TAffineVector;

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14132: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector);
14133: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector);
14134: Function glVectorAdd3( const v1, v2 : TVectorGL ) : TVectorGL;
14135: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL );
14136: Function glVectorAdd5( const v : TAffineVector; const f : Single ) : TAffineVector;
14137: Function glVectorAdd6( const v : TVectorGL; const f : Single ) : TVectorGL;
14138: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector );
14139: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL );
14140: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL );
14141: Procedure glAddVector10( var v : TAffineVector; const f : Single );
14142: Procedure glAddVector11( var v : TVectorGL; const f : Single );
14143: //Procedure TexPointArrayAdd(const src:PTexPointArray,const delta:TTexPoint,const nb:Int;dest:PTexPointArray);
14144: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray,const delta:TTexPoint,const nb:Integer;const scale: TTExPoint; dest : PTexPointArray);
14145: //Procedure VectorArrayAdd(const src:PAffineVectorArray,const delta:TAffineVector,const nb:Integer;dest:PAffineVectorArray);
14146: Function glVectorSubtract( const V1, V2 : TAffineVector ) : TAffineVector;
14147: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector );
14148: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL );
14149: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL );
14150: Function glVectorSubtract4( const V1, V2 : TVectorGL ) : TVectorGL;
14151: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL );
14152: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector );
14153: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single ) : TAffineVector;
14154: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single ) : TVectorGL;
14155: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector );
14156: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL );
14157: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single );
14158: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat );
14159: Function glTexPointCombine( const t1, t2 : TTExPoint; f1, f2 : Single ) : TTExPoint;
14160: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single ) : TAffineVector;
14161: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single ) : TAffineVector;
14162: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector );
14163: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single );
14164: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single );
14165: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single ) : TVectorGL;
14166: Function glVectorCombine8( const V1 : TVectorGL; const V2: TAffineVector; const F1,F2:Single): TVectorGL;
14167: Procedure glVectorCombine9( const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL );
14168: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL );
14169: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL );
14170: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single ) : TVectorGL;
14171: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL );
14172: Function glVectorDotProduct( const V1, V2 : TAffineVector ) : Single;
14173: Function glVectorDotProduct1( const V1, V2 : TVectorGL ) : Single;
14174: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector ) : Single;
14175: Function glPointProject( const p, origin, direction : TAffineVector ) : Single;
14176: Function glPointProject1( const p, origin, direction : TVectorGL ) : Single;
14177: Function glVectorCrossProduct( const V1, V2 : TAffineVector ) : TAffineVector;
14178: Function glVectorCrossProduct1( const V1, V2 : TVectorGL ) : TVectorGL;
14179: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL );
14180: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL );
14181: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector );
14182: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector );
14183: Function glLerp( const start, stop, t : Single ) : Single
14184: Function glAngleLerp( start, stop, t : Single ) : Single
14185: Function glDistanceBetweenAngles( angle1, angle2 : Single ) : Single
14186: Function glTexPointLerp( const t1, t2 : TTExPoint; t : Single ) : TTExPoint;
14187: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14188: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector );
14189: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single ) : TVectorGL;
14190: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL );
14191: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14192: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single ) : TAffineVector;
14193: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray );
14194: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest : PAffineVectorArray );
14195: Function glVectorLength( const x, y : Single ) : Single;
14196: Function glVectorLength1( const x, y, z : Single ) : Single;
14197: Function glVectorLength2( const v : TAffineVector ) : Single;
14198: Function glVectorLength3( const v : TVectorGL ) : Single;
14199: Function glVectorLength4( const v : array of Single ) : Single;
14200: Function glVectorNorm( const x, y : Single ) : Single;
14201: Function glVectorNorm1( const v : TAffineVector ) : Single;
14202: Function glVectorNorm2( const v : TVectorGL ) : Single;
14203: Function glVectorNorm3( var V : array of Single ) : Single;
14204: Procedure glNormalizeVector( var v : TAffineVector );
14205: Procedure glNormalizeVector1( var v : TVectorGL );
14206: Function glVectorNormalize( const v : TAffineVector ) : TAffineVector;
14207: Function glVectorNormalize1( const v : TVectorGL ) : TVectorGL;
14208: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer );
14209: Function glVectorAngleCosine( const V1, V2 : TAffineVector ) : Single
14210: Function glVectorNegate( const v : TAffineVector ) : TAffineVector;
14211: Function glVectorNegate1( const v : TVectorGL ) : TVectorGL;
14212: Procedure glNegateVector( var V : TAffineVector );
14213: Procedure glNegateVector2( var V : TVectorGL );
14214: Procedure glNegateVector3( var V : array of Single );
14215: Procedure glScaleVector( var v : TAffineVector; factor : Single );
14216: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector );

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14217: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14218: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14219: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14220: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14221: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14222: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);
14223: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14224: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14225: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14226: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14227: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14228: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14229: Function glVectorIsNotNull( const v : TAffineVector) : Boolean;
14230: Function glVectorSpacing( const v1, v2 : TTexPoint) : Single;
14231: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14232: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14233: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14234: Function glVectorDistance1( const v1, v2 : TVectorGL) : Single;
14235: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14236: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14237: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector;
14238: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector;
14239: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);
14240: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14241: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single);
14242: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;
14243: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single) : TAffineVector;
14244: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector);
14245: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single) : TAffineVector;
14246: Procedure glAbsVector( var v : TVectorGL);
14247: Procedure glAbsVector1( var v : TAffineVector);
14248: Function glVectorAbs( const v : TVectorGL) : TVectorGL;
14249: Function glVectorAbs1( const v : TAffineVector) : TAffineVector;
14250: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL);
14251: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL);
14252: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix);
14253: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL);
14254: Function glCreateScaleMatrix( const v : TAffineVector) : TMatrixGL;
14255: Function glCreateScaleMatrix1( const v : TVectorGL) : TMatrixGL;
14256: Function glCreateTranslationMatrix( const V : TAffineVector) : TMatrixGL;
14257: Function glCreateTranslationMatrix1( const V : TVectorGL) : TMatrixGL;
14258: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL) : TMatrixGL;
14259: Function glCreateRotationMatrixX( const sine, cosine : Single) : TMatrixGL;
14260: Function glCreateRotationMatrixX1( const angle : Single) : TMatrixGL;
14261: Function glCreateRotationMatrixY( const sine, cosine : Single) : TMatrixGL;
14262: Function glCreateRotationMatrixY1( const angle : Single) : TMatrixGL;
14263: Function glCreateRotationMatrixZ( const sine, cosine : Single) : TMatrixGL;
14264: Function glCreateRotationMatrixZ1( const angle : Single) : TMatrixGL;
14265: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single) : TMatrixGL;
14266: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single) : TMatrixGL;
14267: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix;
14268: Function glMatrixMultiply( const M1, M2 : TAffineMatrix) : TAffineMatrix;
14269: Function glMatrixMultiply1( const M1, M2 : TMatrixGL) : TMatrixGL;
14270: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL);
14271: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL) : TVectorGL;
14272: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix) : TVectorGL;
14273: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL) : TAffineVector;
14274: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix) : TAffineVector;
14275: Function glMatrixDeterminant( const M : TAffineMatrix) : Single;
14276: Function glMatrixDeterminant1( const M : TMatrixGL) : Single;
14277: Procedure glAdjointMatrix( var M : TMatrixGL);
14278: Procedure glAdjointMatrix1( var M : TAffineMatrix);
14279: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single);
14280: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single);
14281: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector);
14282: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL);
14283: Procedure glNormalizeMatrix( var M : TMatrixGL);
14284: Procedure glTransposeMatrix( var M : TAffineMatrix);
14285: Procedure glTransposeMatrix1( var M : TMatrixGL);
14286: Procedure glInvertMatrix( var M : TMatrixGL);
14287: Procedure glInvertMatrix1( var M : TAffineMatrix);
14288: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL) : TMatrixGL;
14289: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations) : Boolean;
14290: Function glPlaneMake( const p1, p2, p3 : TAffineVector) : THmgPlane;
14291: Function glPlaneMake1( const p1, p2, p3 : TVectorGL) : THmgPlane;
14292: Function glPlaneMake2( const point, normal : TAffineVector) : THmgPlane;
14293: Function glPlaneMake3( const point, normal : TVectorGL) : THmgPlane;
14294: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane);
14295: Procedure glNormalizePlane( var plane : THmgPlane);
14296: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector) : Single;
14297: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL) : Single;
14298: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector) : TAffineVector;
14299: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector);
14300: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector);
14301: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL) : Boolean;
14302: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector) : Boolean;
14303: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL) : Single;
14304: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector) : Single;
14305: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector

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14306: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector ) : single
14307: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector ) : TAffineVector
14308: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector ) : Single
14309: Procedure SglementSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
    Segment0Closest, Segment1Closest : TAffineVector )
14310: Function glSegmentSegmentDistance( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector ) : single
14311: TEulerOrder', '( eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX )
14312: Function glQuaternionMake( const Imag : array of Single; Real : Single ) : TQuaternion
14313: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion
14314: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single
14315: Procedure glNormalizeQuaternion( var Q : TQuaternion )
14316: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion
14317: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
14318: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion
14319: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL
14320: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix
14321: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion
14322: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion
14323: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion
14324: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion
14325: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion;
14326: Function glQuaternionSlerpl( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14327: Function glLnXp1( X : Extended ) : Extended
14328: Function glLog1( X : Extended ) : Extended
14329: Function glLog2( X : Extended ) : Extended;
14330: Function glLog21( X : Single ) : Single;
14331: Function glLogN( Base, X : Extended ) : Extended
14332: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14333: Function glPower( const Base, Exponent : Single ) : Single;
14334: Function glPower1( Base : Single; Exponent : Integer ) : Single;
14335: Function glDegToRad( const Degrees : Extended ) : Extended;
14336: Function glDegToRad1( const Degrees : Single ) : Single;
14337: Function glRadToDeg( const Radians : Extended ) : Extended;
14338: Function glRadToDeg1( const Radians : Single ) : Single;
14339: Function glNormalizeAngle( angle : Single ) : Single
14340: Function glNormalizeDegAngle( angle : Single ) : Single
14341: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14342: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14343: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14344: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14345: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14346: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14347: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14348: Function glArcCos( const X : Extended ) : Extended;
14349: Function glArcCos1( const x : Single ) : Single;
14350: Function glArcSin( const X : Extended ) : Extended;
14351: Function glArcSin1( const X : Single ) : Single;
14352: Function glArcTan2l( const Y, X : Extended ) : Extended;
14353: Function glArcTan21( const Y, X : Single ) : Single;
14354: Function glFastArcTan2( y, x : Single ) : Single
14355: Function glTan( const X : Extended ) : Extended;
14356: Function glTanh( const X : Single ) : Single;
14357: Function glCoTan( const X : Extended ) : Extended;
14358: Function glCoTanh( const X : Single ) : Single;
14359: Function glSinh( const x : Single ) : Single;
14360: Function glSinh1( const x : Double ) : Double;
14361: Function glCosh( const x : Single ) : Single;
14362: Function glCosh1( const x : Double ) : Double;
14363: Function glRSqrt( v : Single ) : Single
14364: Function glRLength( x, y : Single ) : Single
14365: Function glISqrt( i : Integer ) : Integer
14366: Function glILength( x, y : Integer ) : Integer;
14367: Function glILength1( x, y, z : Integer ) : Integer;
14368: Procedure glRegisterBasedExp
14369: Procedure glRandomPointOnSphere( var p : TAffineVector )
14370: Function glRoundInt( v : Single ) : Single;
14371: Function glRoundInt1( v : Extended ) : Extended;
14372: Function glTrunc( v : Single ) : Integer;
14373: Function glTrunc64( v : Extended ) : Int64;
14374: Function glInt( v : Single ) : Single;
14375: Function glInt1( v : Extended ) : Extended;
14376: Function glFrac( v : Single ) : Single;
14377: Function glFract( v : Extended ) : Extended;
14378: Function glRound( v : Single ) : Integer;
14379: Function glRound64( v : Single ) : Int64;
14380: Function glRound641( v : Extended ) : Int64;
14381: Function glTrunc( X : Extended ) : Int64
14382: Function glRound( X : Extended ) : Int64
14383: Function glFrac( X : Extended ) : Extended
14384: Function glCeil( v : Single ) : Integer;
14385: Function glCeil64( v : Extended ) : Int64;
14386: Function glFloor( v : Single ) : Integer;
14387: Function glFloor64( v : Extended ) : Int64;
14388: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14389: Function glSign( x : Single ) : Integer
14390: Function glIsInRange( const x, a, b : Single ) : Boolean;
14391: Function glIsInRangel( const x, a, b : Double ) : Boolean;
14392: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14393: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;

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14394: //Function MinFloat( values : PSingleArray; nbItems : Integer) : Single;
14395: //Function MinFloat1( values : PDoubleArray; nbItems : Integer) : Double;
14396: //Function MinFloat2( values : PExtendedArray; nbItems : Integer) : Extended;
14397: Function glMinFloat3( const v1, v2 : Single) : Single;
14398: Function glMinFloat4( const v : array of Single) : Single;
14399: Function glMinFloat5( const v1, v2 : Double) : Double;
14400: Function glMinFloat6( const v1, v2 : Extended) : Extended;
14401: Function glMinFloat7( const v1, v2, v3 : Single) : Single;
14402: Function glMinFloat8( const v1, v2, v3 : Double) : Double;
14403: Function glMinFloat9( const v1, v2, v3 : Extended) : Extended;
14404: //Function MaxFloat10( values : PSingleArray; nbItems : Integer) : Single;
14405: //Function MaxFloat( values : PDoubleArray; nbItems : Integer) : Double;
14406: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer) : Extended;
14407: Function glMaxFloat2( const v : array of Single) : Single;
14408: Function glMaxFloat3( const v1, v2 : Single) : Single;
14409: Function glMaxFloat4( const v1, v2 : Double) : Double;
14410: Function glMaxFloat5( const v1, v2 : Extended) : Extended;
14411: Function glMaxFloat6( const v1, v2, v3 : Single) : Single;
14412: Function glMaxFloat7( const v1, v2, v3 : Double) : Double;
14413: Function glMaxFloat8( const v1, v2, v3 : Extended) : Extended;
14414: Function glMinInteger9( const v1, v2 : Integer) : Integer;
14415: Function glMinInteger( const v1, v2 : Cardinal) : Cardinal;
14416: Function glMaxInteger( const v1, v2 : Integer) : Integer;
14417: Function glMaxInteger1( const v1, v2 : Cardinal) : Cardinal;
14418: Function glTriangleArea( const p1, p2, p3 : TAffineVector) : Single;
14419: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer) : Single;
14420: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector) : Single;
14421: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer) : Single;
14422: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single);
14423: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single);
14424: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single);
14425: Procedure glOffsetFloatArray1( var values : array of Single; delta : Single);
14426: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer);
14427: Function glMaxXYZComponent( const v : TVectorGL) : Single;
14428: Function glMaxXYZComponent1( const v : TAffineVector) : single;
14429: Function glMinXYZComponent( const v : TVectorGL) : Single;
14430: Function glMinXYZComponent1( const v : TAffineVector) : single;
14431: Function glMaxAbsXYZComponent( v : TVectorGL) : Single;
14432: Function glMinAbsXYZComponent( v : TVectorGL) : Single;
14433: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL);
14434: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector);
14435: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL);
14436: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector);
14437: Procedure glSortArrayAscending( var a : array of Extended);
14438: Function glClampValue( const aValue, aMin, aMax : Single) : Single;
14439: Function glClampValue1( const aValue, aMin : Single) : Single;
14440: Function glGeometryOptimizationMode : String;
14441: Procedure glBeginFPUOnlySection;
14442: Procedure glEndFPUOnlySection;
14443: Function glConvertRotation( const Angles : TAffineVector) : TVectorGL;
14444: Function glMakeAffineDblVector( var v : array of Double) : TAffineDblVector;
14445: Function glMakeDblVector( var v : array of Double) : THomogeneousDblVector;
14446: Function glVectorAffineDblToFlt( const v : TAffineDblVector) : TAffineVector;
14447: Function glVectorDblToFlt( const v : THomogeneousDblVector) : THomogeneousVector;
14448: Function glVectorAffineFltToDbl( const v : TAffineVector) : TAffineDblVector;
14449: Function glVectorFltToDbl( const v : TVectorGL) : THomogeneousDblVector;
14450: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single) : Boolean;
14451: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word);
14452: Function glTurn( const Matrix : TMatrixGL; angle : Single) : TMatrixGL;
14453: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14454: Function glPitch( const Matrix : TMatrixGL; Angle : Single) : TMatrixGL;
14455: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14456: Function glRoll( const Matrix: TMatrixGL; Angle : Single) : TMatrixGL;
14457: Function glRoll1(const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14458: Function glRayCastMinDistToPoint( const rayStart, rayVector: TVectorGL;const point:TVectorGL):Single;
14459: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const
sphereCenter:TVectorGL;const sphereRadius : Single) : Boolean;
14460: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
const sphereRadius : Single; var i1, i2 : TVectorGL) : Integer;
14461: Function glSphereVisibleRadius( distance, radius : Single) : Single;
14462: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL) : TFrustum;
14463: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo) : Boolean;
14464: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo) : Boolean;
14465: Function glIsVolumeClipped2( const min,max:TAffineVector;const rcci : TRenderContextClippingInfo) : Bool;
14466: Function glIsVolumeClipped3( const objPos:TAffineVector;const objRadius:Single;const
Frustum:TFrustum):Bool;
14467: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL) : TMatrixGL;
14468: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL) : TMatrixGL;
14469: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector) : TMatrixGL;
14470: Function glPackRotationMatrix( const mat : TMatrixGL) : TPackedRotationMatrix;
14471: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix) : TMatrixGL;
14472: 'cPI','Single').setExtended( 3.141592654);
14473: 'cPIdiv180','Single').setExtended( 0.017453292);
14474: 'c180divPI','Single').setExtended( 57.29577951);
14475: 'c2PI','Single').setExtended( 6.283185307);
14476: 'cPIdiv2','Single').setExtended( 1.570796326);
14477: 'cPIdiv4','Single').setExtended( 0.785398163);

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14478: 'c3P1div4','Single').setExtended( 2.35619449);
14479: 'cInv2PI','Single').setExtended( 1 / 6.283185307);
14480: 'cInv360','Single').setExtended( 1 / 360);
14481: 'c180','Single').setExtended( 180);
14482: 'c360','Single').setExtended( 360);
14483: 'cOneHalf','Single').setExtended( 0.5);
14484: 'cLn10','Single').setExtended( 2.302585093);
14485: ('MinSingle','Extended').setExtended( 1.5e-45);
14486: 'MaxSingle','Extended').setExtended( 3.4e+38);
14487: 'MinDouble','Extended').setExtended( 5.0e-324);
14488: 'MaxDouble','Extended').setExtended( 1.7e+308);
14489: 'MinExtended','Extended').setExtended( 3.4e-4932);
14490: 'MaxExtended','Extended').setExtended( 1.1e+4932);
14491: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18);
14492: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18);}
14493: end;
14494:
14495: procedure SIRegister_GLVectorFileObjects(CL: TPSPPascalCompiler);
14496: begin
14497:   AddClassN(FindClass('TOBJECT'), 'TMeshObjectList'
14498:     (FindClass('TOBJECT'), 'TFaceGroups
14499:      TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14500:      TMeshAutoCenterings', 'set of TMeshAutoCentering
14501:      TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14502:      SIRegister_TBaseMeshObject(CL);
14503:      (FindClass('TOBJECT'), 'TSkeletonFrameList
14504:        TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14505:        SIRegister_TSkeletonFrame(CL);
14506:        SIRegister_TSkeletonFrameList(CL);
14507:        (FindClass('TOBJECT'), 'TSkeleton
14508:          (FindClass('TOBJECT'), 'TSkeletonBone
14509:          SIRegister_TSkeletonBoneList(CL);
14510:          SIRegister_TSkeletonRootBoneList(CL);
14511:          SIRegister_TSkeletonBone(CL);
14512:          (FindClass('TOBJECT'), 'TSkeletonColliderList
14513:            SIRegister_TSkeletonCollider(CL);
14514:            SIRegister_TSkeletonColliderList(CL);
14515:            (FindClass('TOBJECT'), 'TGLBaseMesh
14516:              TBlendLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14517:                + 'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14518:                  +'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14519:                    +'QuaternionList; end
14520:              SIRegister_TSkeleton(CL);
14521:              TMeshObjectRenderingOption', '( moroGroupByMaterial )
14522:              TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14523:              SIRegister_TMoshObject(CL);
14524:              SIRegister_TMoshObjectList(CL);
14525: //TMoshObjectListClass', 'class of TMoshObjectList
14526: (FindClass('TOBJECT'), 'TMoshMorphTargetList
14527: SIRegister_TMoshMorphTarget(CL);
14528: SIRegister_TMoshMorphTargetList(CL);
14529: SIRegister_TMorphableMeshObject(CL);
14530: TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14531: //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not wo'rk
14532: //PVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14533: TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14534: SIRegister_TSkeletonMeshObject(CL);
14535: SIRegister_TFaceGroup(CL);
14536: TFaceGroupMeshMode', '( fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14537:   +'atTriangles, fgmmTriangleFan, fgmmQuads )
14538: SIRegister_TFGVertexIndexList(CL);
14539: SIRegister_TFGVertexNormalTexIndexList(CL);
14540: SIRegister_TFGIndexTexCoordList(CL);
14541: SIRegister_TFaceGroups(CL);
14542: TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14543: SIRegister_TVectorFile(CL);
14544: //TVectorFileClass', 'class of TVectorFile
14545: SIRegister_TGLGLSMVectorFile(CL);
14546: SIRegister_TGLBaseMesh(CL);
14547: SIRegister_TGLFreeForm(CL);
14548: TGLActorOption', '( aoSkeletonNormalizeNormals )
14549: TGLActorOptions', 'set of TGLActorOption
14550: 'cDefaultGLActorOptions', 'LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14551: (FindClass('TOBJECT'), 'TGLActor
14552: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14553: SIRegister_TActorAnimation(CL);
14554: TActorAnimationName', 'string
14555: SIRegister_TActorAnimations(CL);
14556: SIRegister_TGLBaseAnimationController(CL);
14557: SIRegister_TGLAnimationController(CL);
14558: TActorFrameInterpolation', '( afpNone, afpLinear )
14559: TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounc'
14560:   +'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14561: SIRegister_TGLActor(CL);
14562: SIRegister_TVectorFileFormat(CL);
14563: SIRegister_TVectorFileFormatsList(CL);
14564: (FindClass('TOBJECT'), 'EInvalidVectorFile
14565: Function GetVectorFileFormats : TVectorFileFormatsList
14566: Function VectorFileFormatsFilter : String

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14567: Function VectorFileFormatsSaveFilter : String
14568: Function VectorFileFormatExtensionByIndex( index : Integer ) : String
14569: Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass )
14570: Procedure UnregisterVectorFileClass( aClass : TVectorFileClass )
14571: end;
14572:
14573: procedure SIRegister_AxCtrls(CL: TPSPPascalCompiler);
14574: begin
14575:   'Class_DColorPropPage', 'TGUID '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14576:   'Class_DFontPropPage', 'TGUID '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14577:   'Class_DPicturePropPage', 'TGUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14578:   'Class_DStringPropPage', 'TGUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14579:   SIRegister_TOLEStream(CL);
14580:   (FindClass('TOBJECT'), 'TConnectionPoints
14581:   TConnectionKind', '( ckSingle, ckMulti )
14582:   SIRegister_TConnectionPoint(CL);
14583:   SIRegister_TConnectionPoints(CL);
14584:   TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14585:   (FindClass('TOBJECT'), 'TActiveXControlFactory
14586:   SIRegister_TActiveXControl(CL);
14587:   //TActiveXControlClass', 'class of TActiveXControl
14588:   SIRegister_TActiveXControlFactory(CL);
14589:   SIRegister_TActiveFormControl(CL);
14590:   SIRegister_TActiveForm(CL);
14591:   //TActiveFormClass', 'class of TActiveForm
14592:   SIRegister_TActiveFormFactory(CL);
14593:   (FindClass('TOBJECT'), 'TPROPERTYPAGEImpl
14594:   SIRegister_TPropertyPage(CL);
14595:   //TPROPERTYPAGEClass', 'class of TPROPERTYPAGE
14596:   SIRegister_TPropertyPageImpl(CL);
14597:   SIRegister_TActiveXPropertyPage(CL);
14598:   SIRegister_TActiveXPropertyPageFactory(CL);
14599:   SIRegister_TCustomAdapter(CL);
14600:   SIRegister_TAdapterNotifier(CL);
14601:   SIRegister_TFontAccess(CL);
14602:   SIRegister_TFontAdapter(CL);
14603:   SIRegister_TPictureAccess(CL);
14604:   SIRegister_TPictureAdapter(CL);
14605:   SIRegister_TOleGraphic(CL);
14606:   SIRegister_TStringsAdapter(CL);
14607:   SIRegister_TReflectorWindow(CL);
14608:   Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14609:   Procedure GetOLEFont( Font : TFont; var OleFont : IFontDisp)
14610:   Procedure SetOLEFont( Font : TFont; OleFont : IFontDisp)
14611:   Procedure GetOLEPicture( Picture : TPicture; var OlePicture : IPictureDisp)
14612:   Procedure SetOLEPicture( Picture : TPicture; OlePicture : IPictureDisp)
14613:   Procedure GetOLEStrings( Strings : TStrings; var OleStrings : IStrings)
14614:   Procedure SetOLEStrings( Strings : TStrings; OleStrings : IStrings)
14615:   Function ParkingWindow : HWND
14616: end;
14617:
14618: procedure SIRegister_synaip(CL: TPSPPascalCompiler);
14619: begin
14620:   // TIP6Bytes = array [0..15] of Byte;
14621:   {binary form of IPv6 adress (for string conversion routines)}
14622:   // TIP6Words = array [0..7] of Word;
14623:   AddTypes('TIP6Bytes', 'array [0..15] of Byte;');
14624:   AddTypes('TIP6Words', 'array [0..7] of Word;');
14625:   AddTypes('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14626:   Function synaIsIP( const Value : string ) : Boolean';
14627:   Function synaIsIP6( const Value : string ) : Boolean';
14628:   Function synaIPToID( Host : string ) : Ansistring';
14629:   Function synaStrToIp6( value : string ) : TIP6Bytes';
14630:   Function synaIp6ToStr( value : TIP6Bytes ) : string';
14631:   Function synaStrToIp( value : string ) : integer';
14632:   Function synaIpToStr( value : integer ) : string';
14633:   Function synaReverseIP( Value : AnsiString ) : AnsiString';
14634:   Function synaReverseIP6( Value : AnsiString ) : AnsiString';
14635:   Function synaExpandIP6( Value : AnsiString ) : AnsiString';
14636:   Function xStrToIP( const Value : String ) : TIPAdr';
14637:   Function xIPToStr( const Adresse : TIPAdr ) : String';
14638:   Function IPTOCardinal( const Adresse : TIPAdr ) : Cardinal';
14639:   Function CardinalToIP( const Value : Cardinal ) : TIPAdr';
14640: end;
14641:
14642: procedure SIRegister_synacode(CL: TPSPPascalCompiler);
14643: begin
14644:   AddTypes('TSpecials', 'set of Char');
14645:   Const ('SpecialChar','TSpecials').SetSet( '='[]<>:;, @/?\_\_');
14646:   Const ('URLFullSpecialChar','TSpecials').SetSet( ';:/?:@=&#+');
14647:   Const ('TableBasee64'ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdeghi jklmnopqrstuvwxyz0123456789+=');
14648:   Const ('TableBasee64mod'ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdeghi jklmnopqrstuvwxyz0123456789,+=');
14649:   Const ('TableUU'(`!#$%^&`)*,-./0123456789; <=>@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_');
14650:   Const ('TableXX'(+0123456789ABCDEFGHIJKLMNPQRSTUVWXYZZabcdeghi jklmnopqrstuvwxyz');
14651:   Function DecodeTriplet( const Value : AnsiString; Delimiter : Char ) : AnsiString';
14652:   Function DecodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14653:   Function DecodeURL( const Value : AnsiString ) : AnsiString';
14654:   Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials ) : AnsiString';
14655:   Function EncodeQuotedPrintable( const Value : AnsiString ) : AnsiString';

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14656: Function EncodeSafeQuotedPrintable( const Value : AnsiString ) : AnsiString');
14657: Function EncodeURLElement( const Value : AnsiString ) : AnsiString');
14658: Function EncodeURL( const Value : AnsiString ) : AnsiString');
14659: Function Decode4to3( const Value, Table : AnsiString ) : AnsiString');
14660: Function Decode4to3Ex( const Value, Table : AnsiString ) : AnsiString');
14661: Function Encode3to4( const Value, Table : AnsiString ) : AnsiString');
14662: Function synDecodeBase64( const Value : AnsiString ) : AnsiString');
14663: Function synEncodeBase64( const Value : AnsiString ) : AnsiString');
14664: Function DecodeBase64mod( const Value : AnsiString ) : AnsiString');
14665: Function EncodeBase64mod( const Value : AnsiString ) : AnsiString');
14666: Function DecodeUU( const Value : AnsiString ) : AnsiString');
14667: Function EncodeUU( const Value : AnsiString ) : AnsiString');
14668: Function DecodeXX( const Value : AnsiString ) : AnsiString');
14669: Function DecodeYEnc( const Value : AnsiString ) : AnsiString');
14670: Function UpdateCrc32( Value : Byte; Crc32 : Integer ) : Integer');
14671: Function synCrc32( const Value : AnsiString ) : Integer');
14672: Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word');
14673: Function Crc16( const Value : AnsiString ) : Word');
14674: Function synMD5( const Value : AnsiString ) : AnsiString');
14675: Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString');
14676: Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14677: Function synSHA1( const Value : AnsiString ) : AnsiString');
14678: Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString');
14679: Function SHA1LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14680: Function synMD4( const Value : AnsiString ) : AnsiString');
14681: end;
14682:
14683: procedure SIRegister_synachar(CL: TPSPascalCompiler);
14684: begin
14685:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14686:             + 'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14687:             + 'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14688:             + '4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14689:             + '_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14690:             + 'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14691:             + ', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14692:             + ', NEXTSTEP, ARMASCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14693:             + 'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14694:             + '1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14695:             + '2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14696:             + 'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14697:             + 'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14698:             + ', CP864, CP865, CP869, CP1125 ') );
14699:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14700: Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14701: Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar; const
      TransformTable : array of Word) : AnsiString');
14702: Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
      TransformTable : array of Word; Translit : Boolean) : AnsiString');
14703: Function GetCurCP : TMimeChar');
14704: Function GetCurOEMCP : TMimeChar');
14705: Function GetCPFromID( Value : AnsiString ) : TMimeChar');
14706: Function GetIDFromCP( Value : TMimeChar ) : AnsiString');
14707: Function NeedCharsetConversion( const Value : AnsiString ) : Boolean');
14708: Function IdealCharsetCoding( const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14709: Function GetBOM( Value : TMimeChar ) : AnsiString');
14710: Function StringToWide( const Value : AnsiString ) : WideString');
14711: Function WideToString( const Value : WideString ) : AnsiString');
14712: end;
14713:
14714: procedure SIRegister_synamisc(CL: TPSPascalCompiler);
14715: begin
14716:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14717:   Procedure WakeOnLan( MAC, IP : string );
14718:   Function GetDNS : string');
14719:   Function GetIEProxy( protocol : string ) : TProxySetting';
14720:   Function GetLocalIPs : string');
14721: end;
14722:
14723:
14724: procedure SIRegister_synaser(CL: TPSPascalCompiler);
14725: begin
14726:   AddConstantN('synCR','Char #$0d');
14727:   Const('synLF','Char #$0a');
14728:   Const('cSerialChunk','LongInt'( 8192));
14729:   Const('LockfileDirectory','String '/var/lock');
14730:   Const('PortIsClosed','LongInt'(- 1));
14731:   Const('ErrAlreadyOwned','LongInt'( 9991));
14732:   Const('ErrAlreadyInUse','LongInt'( 9992));
14733:   Const('ErrWrongParameter','LongInt'( 9993));
14734:   Const('ErrPortNotOpen','LongInt'( 9994));
14735:   Const('ErrNoDeviceAnswer','LongInt'( 9995));
14736:   Const('ErrMaxBuffer','LongInt'( 9996));
14737:   Const('ErrTimeout','LongInt'( 9997));
14738:   Const('ErrNotRead','LongInt'( 9998));
14739:   Const('ErrFrame','LongInt'( 9999));
14740:   Const('ErrOverrun','LongInt'( 10000));
14741:   Const('ErrRxOver','LongInt'( 10001));
14742:   Const('ErrRxParity','LongInt'( 10002));

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14743: Const('ErrTxFull','LongInt'( 10003);
14744: Const('dcb_Binary','LongWord')( $00000001);
14745: Const('dcb_ParityCheck','LongWord')( $00000002);
14746: Const('dcb_OutxCtsFlow','LongWord')( $00000004);
14747: Const('dcb_OutxDsrFlow','LongWord')( $00000008);
14748: Const('dcb_DtrControlMask','LongWord')( $00000030);
14749: Const('dcb_DtrControlDisable','LongWord')( $00000000);
14750: Const('dcb_DtrControlEnable','LongWord')( $00000010);
14751: Const('dcb_DtrControlHandshake','LongWord')( $00000020);
14752: Const('dcb_DsrSensitivity','LongWord')( $00000040);
14753: Const('dcb_TXContinueOnXoff','LongWord')( $00000080);
14754: Const('dcb_OutX','LongWord')( $00000100);
14755: Const('dcb_InX','LongWord')( $00000200);
14756: Const('dcb_ErrorChar','LongWord')( $00000400);
14757: Const('dcb_NullStrip','LongWord')( $00000800);
14758: Const('dcb_RtsControlMask','LongWord')( $00003000);
14759: Const('dcb_RtsControlDisable','LongWord')( $00000000);
14760: Const('dcb_RtsControlEnable','LongWord')( $00001000);
14761: Const('dcb_RtsControlHandshake','LongWord')( $00002000);
14762: Const('dcb_RtsControlToggle','LongWord')( $00003000);
14763: Const('dcb_AbortOnError','LongWord')( $00004000);
14764: Const('dcb_Reserveds','LongWord')( $FFFF8000);
14765: Const('synSBL','LongInt'( 0);
14766: Const('SBlandHalf','LongInt'( 1);
14767: Const('synSB2','LongInt'( 2);
14768: Const('synINVALID_HANDLE_VALUE','LongInt'( THandle ( - 1 )));
14769: Const('CS7fix','LongWord')( $00000200);
14770: AddTypeS('synTDCB', 'record DCBLength : DWORD; BaudRate : DWORD; Flags : Long'
14771: +'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par'
14772: +'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : '
14773: +'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14774: //AddTypeS('PDCB', '^TDCB // will not work');
14775: //Const('MaxRates','LongInt'( 18);
14776: //Const('MaxRates','LongInt'( 30);
14777: //Const('MaxRates','LongInt'( 19);
14778: Const('O_SYNC','LongWord')( $0080);
14779: Const('synOK','LongInt'( 0);
14780: Const('synErr','LongInt'( integer ( - 1 )));
14781: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
14782: HR_WriteCount, HR_Wait )');
14783: Type('THookSerialStatus',Procedure(Sender: TObject; Reason:THookSerialReason; const Value:string));
14784: SIRegister_ESynaSerError(CL);
14785: SIRegister_TBlockSerial(CL);
14786: Function GetSerialPortNames : string;
14787: end;
14788: procedure SIRegister_synaicnv(CL: TPSCompiler);
14789: begin
14790: Const('DLLIconvName','String 'libiconv.so');
14791: Const('DLLIconvName','String 'iconv.dll');
14792: AddTypeS('size_t','Cardinal');
14793: AddTypeS('iconv_t','Integer');
14794: //AddTypeS('iconv_t','Pointer');
14795: AddTypeS('argptr','iconv_t');
14796: Function SynalIconvOpen( const tocode, fromcode : Ansistring) : iconv_t';
14797: Function SynalIconvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t';
14798: Function SynalIconvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t';
14799: Function SynalIconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14800: Function SynalIconvClose( var cd : iconv_t) : integer';
14801: Function SynalIconvCtl( cd : iconv_t; request : integer; argument : argptr) : integer';
14802: Function IsIconvloaded : Boolean';
14803: Function InitIconvInterface : Boolean';
14804: Function DestroyIconvInterface : Boolean';
14805: Const('ICONV_TRIVIALP','LongInt'( 0);
14806: Const('ICONV_GET_TRANSLITERATE','LongInt'( 1);
14807: Const('ICONV_SET_TRANSLITERATE','LongInt'( 2);
14808: Const('ICONV_GET_DISCARD_ILSEQ','LongInt'( 3);
14809: Const('ICONV_SET_DISCARD_ILSEQ','LongInt'( 4);
14810: end;
14811:
14812: procedure SIRegister_pingsend(CL: TPSCompiler);
14813: begin
14814: Const('ICMP_ECHO','LongInt'( 8);
14815: Const('ICMP_ECHOREPLY','LongInt'( 0);
14816: Const('ICMP_UNREACH','LongInt'( 3);
14817: Const('ICMP_TIME_EXCEEDED','LongInt'( 11);
14818: Const('ICMP6_ECHO','LongInt'( 128);
14819: Const('ICMP6_ECHOREPLY','LongInt'( 129);
14820: Const('ICMP6_UNREACH','LongInt'( 1);
14821: Const('ICMP6_TIME_EXCEEDED','LongInt'( 3);
14822: AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOut'
14823: +'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14824: SIRegister_TPINGSend(CL);
14825: Function PingHost( const Host : string) : Integer';
14826: Function TraceRouteHost( const Host : string) : string';
14827: end;
14828:
14829: procedure SIRegister_asnlutil(CL: TPSCompiler);
14830: begin

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14831: AddConstantN('synASN1_BOOL','LongWord')( $01);
14832: Const('synASN1_INT','LongWord')( $02);
14833: Const('synASN1_OCTSTR','LongWord')( $04);
14834: Const('synASN1_NULL','LongWord')( $05);
14835: Const('synASN1_OBJID','LongWord')( $06);
14836: Const('synASN1_ENUM','LongWord')( $0a);
14837: Const('synASN1_SEQ','LongWord')( $30);
14838: Const('synASN1_SETOF','LongWord')( $31);
14839: Const('synASN1_IPADDR','LongWord')( $40);
14840: Const('synASN1_COUNTER','LongWord')( $41);
14841: Const('synASN1_GAUGE','LongWord')( $42);
14842: Const('synASN1_TIMETICKS','LongWord')( $43);
14843: Const('synASN1_OPAQUE','LongWord')( $44);
14844: Function synASNEncOIDItem( Value : Integer ) : AnsiString');
14845: Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString ) : Integer');
14846: Function synASNEncLen( Len : Integer ) : AnsiString');
14847: Function synASNDecLen( var Start : Integer; const Buffer : AnsiString ) : Integer');
14848: Function synASNEncInt( Value : Integer ) : AnsiString');
14849: Function synASNEncUInt( Value : Integer ) : AnsiString');
14850: Function synASNObject( const Data : AnsiString; ASNType : Integer ) : AnsiString');
14851: Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14852: Function synMibToId( Mib : String ) : AnsiString');
14853: Function synIdToMib( const Id : AnsiString ) : String');
14854: Function synIntMibToStr( const Value : AnsiString ) : AnsiString');
14855: Function ASNdump( const Value : AnsiString ) : AnsiString');
14856: Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings) : Boolean');
14857: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString');
14858: end;
14859:
14860: procedure SIRegister_ldapsend(CL: TPSPascalCompiler);
14861: begin
14862:   Const('cLDAPProtocol','String '389');
14863:   Const('LDAP ASN1_BIND_REQUEST','LongWord')( $60);
14864:   Const('LDAP ASN1_BIND_RESPONSE','LongWord')( $61);
14865:   Const('LDAP ASN1_UNBIND_REQUEST','LongWord')( $42);
14866:   Const('LDAP ASN1_SEARCH_REQUEST','LongWord')( $63);
14867:   Const('LDAP ASN1_SEARCH_ENTRY','LongWord')( $64);
14868:   Const('LDAP ASN1_SEARCH_DONE','LongWord')( $65);
14869:   Const('LDAP ASN1_SEARCH_REFERENCE','LongWord')( $73);
14870:   Const('LDAP ASN1_MODIFY_REQUEST','LongWord')( $66);
14871:   Const('LDAP ASN1_MODIFY_RESPONSE','LongWord')( $67);
14872:   Const('LDAP ASN1_ADD_REQUEST','LongWord')( $68);
14873:   Const('LDAP ASN1_ADD_RESPONSE','LongWord')( $69);
14874:   Const('LDAP ASN1_DEL_REQUEST','LongWord')( $4A);
14875:   Const('LDAP ASN1_DEL_RESPONSE','LongWord')( $6B);
14876:   Const('LDAP ASN1 MODIFYDN_REQUEST','LongWord')( $6C);
14877:   Const('LDAP ASN1 MODIFYDN_RESPONSE','LongWord')( $6D);
14878:   Const('LDAP ASN1_COMPARE_REQUEST','LongWord')( $6E);
14879:   Const('LDAP ASN1_COMPARE_RESPONSE','LongWord')( $6F);
14880:   Const('LDAP ASN1_ABANDON_REQUEST','LongWord')( $70);
14881:   Const('LDAP ASN1 EXT_REQUEST','LongWord')( $77);
14882:   Const('LDAP ASN1 EXT_RESPONSE','LongWord')( $78);
14883:   SIRegister_TLDAPAttribute(CL);
14884:   SIRegister_TLDAPAttributeList(CL);
14885:   SIRegister_TLDAPResult(CL);
14886:   SIRegister_TLDAPResultList(CL);
14887:   AddTypeS('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14888:   AddTypes('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14889:   AddTypeS('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14890:   SIRegister_TLDAPSendl(CL);
14891:   Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString');
14892: end;
14893:
14894:
14895: procedure SIRegister_slogsend(CL: TPSPascalCompiler);
14896: begin
14897:   Const('cSysLogProtocol','String '514');
14898:   Const('FCL_Kernel','LongInt'( 0));
14899:   Const('FCL_UserLevel','LongInt'( 1));
14900:   Const('FCL_MailSystem','LongInt'( 2));
14901:   Const('FCL_System','LongInt'( 3));
14902:   Const('FCL_Security','LongInt'( 4));
14903:   Const('FCL_Syslogd','LongInt'( 5));
14904:   Const('FCL_Printer','LongInt'( 6));
14905:   Const('FCL_News','LongInt'( 7));
14906:   Const('FCL_UUCP','LongInt'( 8));
14907:   Const('FCL_Clock','LongInt'( 9));
14908:   Const('FCL_Authorization','LongInt'( 10));
14909:   Const('FCL_FTP','LongInt'( 11));
14910:   Const('FCL_NTP','LongInt'( 12));
14911:   Const('FCL_LogAudit','LongInt'( 13));
14912:   Const('FCL_LogAlert','LongInt'( 14));
14913:   Const('FCL_Time','LongInt'( 15));
14914:   Const('FCL_Local0','LongInt'( 16));
14915:   Const('FCL_Local1','LongInt'( 17));
14916:   Const('FCL_Local2','LongInt'( 18));
14917:   Const('FCL_Local3','LongInt'( 19));
14918:   Const('FCL_Local4','LongInt'( 20));
14919:   Const('FCL_Local5','LongInt'( 21));

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14920: Const ('FCL_Local6','LongInt'(' 22');
14921: Const ('FCL_Local7','LongInt'(' 23);
14922: Type (TSyslogSeverity,'(Emergency, Alert, Critical, Error, Warning,Notice,Info,Debug);
14923: SIRegister_TSyslogMessage(CL);
14924: SIRegister_TSyslogSend(CL);
14925: Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const
Content:string):Boolean;
14926: end;
14927:
14928:
14929: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
14930: begin
14931:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
14932:   SIRegister_TMessHeader(CL);
14933:   //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
14934:   SIRegister_TMimeMess(CL);
14935: end;
14936:
14937: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
14938: begin
14939:   (FindClass('TOBJECT'),'TMimePart');
14940:   AddTypeS('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
14941:   AddTypes('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
14942:   AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
14943:   SIRegister_TMimePart(CL);
14944: Const ('MaxMimeType','LongInt'(' 25);
14945: Function GenerateBoundary : string');
14946: end;
14947:
14948: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
14949: begin
14950:   Function InlineDecode( const Value : string; CP : TMimeChar ) : string';
14951:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar ) : string');
14952:   Function NeedInline( const Value : AnsiString ) : boolean';
14953:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar ) : string');
14954:   Function InlineCode( const Value : string ) : string';
14955:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar ) : string');
14956:   Function InlineEmail( const Value : string ) : string');
14957: end;
14958:
14959: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
14960: begin
14961: Const ('cFtpProtocol','String '21');
14962: Const ('cFtpDataProtocol','String '20');
14963: Const ('FTP_OK','LongInt'(' 255);
14964: Const ('FTP_ERR','LongInt'(' 254);
14965: AddTypeS('TFTPStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
14966: SIRegister_TFTPLListRec(CL);
14967: SIRegister_TFTPLList(CL);
14968: SIRegister_TFTPSend(CL);
14969: Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string ) : Boolean';
14970: Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string ) : Boolean';
14971: Function FtpInterServerTransfer(const FromIP,FromPort,FromFile,FromUser,FromPass : string; const ToIP,
ToPort,ToFile,ToUser,ToPass : string ) : Boolean';
14972: end;
14973:
14974: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
14975: begin
14976: Const ('cHttpProtocol','String '80');
14977: AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
14978: SIRegister_THTTPSend(CL);
14979: Function HttpGetText( const URL : string; const Response : TStrings ) : Boolean';
14980: Function HttpGetBinary( const URL : string; const Response : TStream ) : Boolean';
14981: Function HttpPostBinary( const URL : string; const Data : TStream ) : Boolean';
14982: Function HttpPostURL( const URL, URLData : string; const Data : TStream ) : Boolean';
14983: Function HttpPostfile(const URL,FieldName,FileName:string;const Data:TStream;const
ResultData:TStrings):Bool;
14984: end;
14985:
14986: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
14987: begin
14988: Const ('cSmtpProtocol','String '25');
14989: SIRegister_TSMTSPSend(CL);
14990: Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
Passw:string):Bool;
14991: Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
14992: Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Usrname, Password : string):Boolean';
14993: end;
14994:
14995: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
14996: begin
14997: Const ('cSnmpProtocol','String '161');
14998: Const ('cSnmpTrapProtocol','String '162');
14999: Const ('SNMP_V1','LongInt'(' 0);
15000: Const ('SNMP_V2C','LongInt'(' 1);
15001: Const ('SNMP_V3','LongInt'(' 3);
15002: Const ('PDUGetRequest','LongWord')($A0);
15003: Const ('PDUGetNextRequest','LongWord')($A1);

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15004: Const ('PDUGetResponse', 'LongWord')( $A2);
15005: Const ('PDUSetRequest', 'LongWord')( $A3);
15006: Const ('PDUTrap', 'LongWord')( $A4);
15007: Const ('PDUGetBulkRequest', 'LongWord')( $A5);
15008: Const ('PDUInformRequest', 'LongWord')( $A6);
15009: Const ('PDUTrapV2', 'LongWord')( $A7);
15010: Const ('PDUReport', 'LongWord')( $A8);
15011: Const ('ENoError', LongInt 0);
15012: Const ('ETooBig', 'LongInt')( 1);
15013: Const ('ENoSuchName', 'LongInt')( 2);
15014: Const ('EBadValue', 'LongInt')( 3);
15015: Const ('EReadOnly', 'LongInt')( 4);
15016: Const ('EGenErr', 'LongInt')( 5);
15017: Const ('ENoAccess', 'LongInt')( 6);
15018: Const ('EWrongType', 'LongInt')( 7);
15019: Const ('EWrongLength', 'LongInt')( 8);
15020: Const ('EWrongEncoding', 'LongInt')( 9);
15021: Const ('EWrongValue', 'LongInt')( 10);
15022: Const ('ENoCreation', 'LongInt')( 11);
15023: Const ('EInconsistentValue', 'LongInt')( 12);
15024: Const ('EResourceUnavailable', 'LongInt')( 13);
15025: Const ('ECommitFailed', 'LongInt')( 14);
15026: Const ('EUndoFailed', 'LongInt')( 15);
15027: Const ('EAuthorizationError', 'LongInt')( 16);
15028: Const ('ENotWritable', 'LongInt')( 17);
15029: Const ('EInconsistentName', 'LongInt')( 18);
15030: AddTypes('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15031: AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15032: AddTypes('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15033: SIRegister_TSNNMPMib(CL);
15034: AddTypes('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer; '
15035:   +'EngineTime : integer; EngineStamp : Cardinal; end');
15036: SIRegister_TSNNMPRec(CL);
15037: SIRegister_TSNNMPSend(CL);
15038: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString) : Boolean';
15039: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer) : Boolean';
15040: Function SNMPGetNext( var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15041: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings): Boolean;
15042: Function SNMPGetTableElement(const BaseOID,RowID,CollID,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15043: Function SendTrap(const Dest,Source, Enterprise, Community : AnsiString; Generic, Specific, Seconds : Integer; const MIBName, MIBValue : AnsiString; MIBtype : Integer) : Integer';
15044: Function RecvTrap(var Dest,Source,Enterprise,Community: AnsiString; var Generic, Specific, Seconds : Integer; const MIBName, MIBValue : TStringList) : Integer';
15045: end;
15046:
15047: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15048: begin
15049:   Function GetDomainName2: AnsiString';
15050:   Function GetDomainController( Domain : AnsiString) : AnsiString';
15051:   Function GetDomainUsers( Controller : AnsiString) : AnsiString';
15052:   Function GetDomainGroups( Controller : AnsiString) : AnsiString';
15053:   Function GetDateTime( Controller : AnsiString) : TDateTime';
15054:   Function GetFullName2( Controller, UserID : AnsiString) : AnsiString';
15055: end;
15056:
15057: procedure SIRegister_wwSystem(CL: TPSPascalCompiler);
15058: begin
15059:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15060:   TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM)';
15061:   Function wwStrToDate( const S : string) : boolean';
15062:   Function wwStrToTime( const S : string) : boolean';
15063:   Function wwStrToDateTime( const S : string) : boolean';
15064:   Function wwStrToTimeVal( const S : string) : TDateTime';
15065:   Function wwStrToDateVal( const S : string) : TDateTime';
15066:   Function wwStrToDateTimeVal( const S : string) : TDateTime';
15067:   Function wwStrToInt( const S : string) : boolean';
15068:   Function wwStrToFloat( const S : string) : boolean';
15069:   Function wwGetDateOrder( const DateFormat : string) : TwwDateOrder';
15070:   Function wwNextDay( Year, Month, Day : Word) : integer';
15071:   Function wwPriorDay( Year, Month, Day : Word) : integer';
15072:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime) : Boolean';
15073:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime) : Boolean';
15074:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15075:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string) : TwwDateTimeSelection';
15076:   Function wwScanDate( const S : string; var Date : TDateTime) : Boolean';
15077:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer) : Boolean';
15078:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool';
15079:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean';
15080: end;
15081:
15082: unit uPSI_Themes;
15083: Function ThemeServices : TThemeServices';
15084: Function ThemeControl( AControl : TControl) : Boolean';
15085: Function UnthemedDesigner( AControl : TControl) : Boolean';
15086: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15087: begin
15088:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String';
15089: end;
15090: Unit uPSC_menus;

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15091: Function StripHotkey( const Text : string ) : string';
15092: Function GetHotkey( const Text : string ) : string';
15093: Function AnsiSameCaption( const Text1, Text2 : string ) : Boolean';
15094: Function IsAltGRPressed : boolean';
15095:
15096: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15097: begin
15098:   TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15099:   SIRegister_TIdIMAP4Server(CL);
15100: end;
15101:
15102: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15103: begin
15104:   'HASH_SIZE', 'LongInt'( 256 );
15105:   CL.FindClass('TOBJECT'), 'EVariantSymbolTable');
15106:   CL.AddTypeS('TSymbolType', '( stinteger, stFloat, stDate, stString )');
15107:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15108:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15109:     +' : Integer; Value : Variant; end');
15110:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15111:   SIRegister_TVariantSymbolTable(CL);
15112: end;
15113:
15114: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15115: begin
15116:   SIRegister_TThreadLocalVariables(CL);
15117:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar';
15118:   //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD';
15119:   Function ThreadLocals : TThreadLocalVariables';
15120:   Procedure WriteDebug( sz : String );
15121:   CL.AddConstantN('UDF_SUCCESS', 'LongInt'( 0 );
15122:   'UDF_FAILURE', 'LongInt'( 1 );
15123:   'cSignificantlyLarger', 'LongInt'( 1024 * 4 );
15124:   CL.AddTypeS('mTByteArray', 'array of byte;');
15125:   function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15126:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15127:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTarget: string);
15128:   function IsNetworkConnected: Boolean;
15129:   function IsInternetConnected: Boolean;
15130:   function IsCOMConnected: Boolean;
15131:   function IsNetworkOn: Boolean;
15132:   function IsInternetOn: Boolean;
15133:   function IsCOMON: Boolean;
15134:   Function SetTimer(hWnd : HWND; nIDEEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15135:   Function KillTimer( hWnd : HWND; uIDEEvent : UINT ) : BOOL';
15136:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15137:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15138:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15139:   Function GetMenu( hWnd : HWND ) : HMENU';
15140:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15141: end;
15142:
15143: procedure SIRegister_SockTransport(CL: TPSPascalCompiler);
15144: begin
15145:   SIRegister_IDataBlock(CL);
15146:   SIRegister_ISendDataBlock(CL);
15147:   SIRegister_ITransport(CL);
15148:   SIRegister_TDataBlock(CL);
15149:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15150:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15151:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15152:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15153:   SIRegister_TCustomDataBlockInterpreter(CL);
15154:   SIRegister_TSendDataBlock(CL);
15155:   'CallSig', 'LongWord')($D800);
15156:   'ResultsSig', 'LongWord')($D400);
15157:   'asMask', 'LongWord')($00FF);
15158:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15159:   CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15160:   Procedure CheckSignature( Sig : Integer );
15161: end;
15162:
15163: procedure SIRegister_WinInet(CL: TPSPascalCompiler);
15164: begin
15165:   //CL.AddTypeS('HINTERNET', '__Pointer');
15166:   CL.AddTypeS('HINTERNET1', 'THANDLE');
15167:   CL.AddTypeS('HINTERNET', 'Integer');
15168:   CL.AddTypeS('HINTERNET2', '__Pointer');
15169:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15170:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15171:   CL.AddTypeS('INTERNET_PORT', 'Word');
15172:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15173:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15174:   Function InternetTimeFromSystemTime(const pst: TSystemTime; dwRFC: DWORD; lpszTime: LPSTR; cbTime: DWORD) : BOOL;
15175:   'INTERNET_RFC1123_FORMAT', 'LongInt'( 0 );
15176:   'INTERNET_RFC1123_BUFSIZE', 'LongInt'( 30 );
15177:   Function InternetCrackUrl(lpszUrl: PChar; dwUrlLength, dwFlags: DWORD; var
15178:   lpUrlComponents: TURLComponents): BOOL;
15178:   Function InternetCreateUrl(var lpUrlComponents: TURLComponents; dwFlags: DWORD; lpszUrl: PChar; var
15178:   dwUrlLength: DWORD): BOOL;

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15179: Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';
15180: Function
15181: InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
15182: lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15183: Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
15184: ;dwContext:DWORD):HINTERNET;
15185: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
15186: dwContext:DWORD):BOOL;
15187: Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15188: Function
15189: InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15190: Function InternetHangUp(dwConnection : DWORD; dwReserved : DWORD) : DWORD';
15191: Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15192: Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15193: Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15194: Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
15195: lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;
15196: Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
15197: lpdwBufferLength : Function InternetCloseHandle( hInet : HINTERNET ) : BOOL');
15198: Function InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar
15199: ;lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD; dwContext:DWORD):HINTERNET;
15200: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,
15201: dwContext:DWORD):BOOL;
15202: Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData :
15203: TWin32FindData; dwFlags : DWORD; dwContext : DWORD ) : HINTERNET';
15204: Function WFTPGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
15205: BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD ) : BOOL';
15206: Function
15207: FtpPutFile(hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15208: Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar ) : BOOL';
15209: Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15210: Function
15211: FtpOpenFile(hConnect:HINTER;lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15212: Function FtpCreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15213: Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15214: Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar ) : BOOL';
15215: Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15216: Function
15217: IS_GOPHER_FILE( GopherType : DWORD ) : BOOL';
15218: Function IS_GOPHER_DIRECTORY( GopherType : DWORD ) : BOOL';
15219: Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD ) : BOOL';
15220: Function IS_GOPHER_ERROR( GopherType : DWORD ) : BOOL';
15221: Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD ) : BOOL';
15222: Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD ) : BOOL';
15223: Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD ) : BOOL';
15224: Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD ) : BOOL';
15225: Function IS_GOPHER_ASK( GopherType : DWORD ) : BOOL';
15226: Function IS_GOPHER_PLUS( GopherType : DWORD ) : BOOL';
15227: Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD ) : BOOL';
15228: Function
15229: GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:
15230: PChar;dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15231: Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15232: Function
15233: GopherOpenFile(hConec:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):HINTERNET;
15234: Function HttpOpenRequest( hConnect:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
15235: PChar; lpszReferrer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):HINTERNET;
15236: Function
15237: HttpAddRequestHeaders(hReg:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15238: Function HttpSendRequest(hRequest: HINTERNET; lpszHeaders : PChar;
15239: dwHeadersLength:DWORD;lpOptional:Tobject; dwOptionalLength:DWORD):BOOL;
15240: Function InternetGetCookie(lpszUrl,lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15241: Function InternetAttemptConnect( dwReserved : DWORD ) : DWORD';
15242: Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15243: Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15244: Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPTSTR; bPost : BOOL ) : DWORD';
15245: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject ) : Int64';
15246: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject ) : Bool';
15247: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var
15248: lpdwFirstCacheEntryInfo:TInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15249: Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var
15250: lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15251: Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15252: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15253: Function
15254: InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15255: Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD ) : BOOL';
15256: end;
15257: procedure SIRRegister_Wwstr(CL: TPSPascalCompiler);
15258: begin
15259: AddTypeS('strCharSet', 'set of char');
15260: TwwGetWordOption','(wwgSkipLeadingBlanks, wwgQuotesAsWords,wwgwStripQuotes , wwgSpacesInWords );
15261: AddTypeS('TwwGetWordOptions', 'set of TwwGetWordOption');
15262: Procedure strBreakApart( s : string; delimiter : string; parts : TStrings)');

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15246: Function strGetToken( s : string; delimiter : string; var APos : integer ) : string');
15247: Procedure strStripPreceding( var s : string; delimiter : strCharSet') );
15248: Procedure strStripTrailing( var s : string; delimiter : strCharSet') );
15249: Procedure strStripWhiteSpace( var s : string') );
15250: Function strRemoveChar( str : string; removeChar : char ) : string');
15251: Function wwstrReplaceChar( str : string; removeChar, replaceChar : char ) : string');
15252: Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string) : string');
15253: Function wwEqualStr( s1, s2 : string) : boolean');
15254: Function strCount( s : string; delimiter : char) : integer');
15255: Function strWhiteSpace : strCharSet');
15256: Function wwExtractFileNameOnly( const FileName : string) : string');
15257: Function wwGetWord(s:string; var APos:integer;Options:TwwGetWordOptions;DelimSet:strCharSet):string;
15258: Function strTrailing( s : string; delimiter : char ) : string');
15259: Function strPreceding( s : string; delimiter : char ) : string');
15260: Function wwstrReplace( s, Find, Replace : string ) : string');
15261: end;
15262:
15263: procedure SIRegister_DataBkr(CL: TPSPPascalCompiler);
15264: begin
15265:   SIRegister_TRemoteDataModule(CL);
15266:   SIRegister_TCRemoteDataModule(CL);
15267:   Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean)' );
15268:   Procedure UnregisterPooled( const ClassID : string)' );
15269:   Procedure EnableSocketTransport( const ClassID : string)' );
15270:   Procedure DisableSocketTransport( const ClassID : string)' );
15271:   Procedure EnableWebTransport( const ClassID : string)' );
15272:   Procedure DisableWebTransport( const ClassID : string)' );
15273: end;
15274:
15275: procedure SIRegister_Mathbox(CL: TPSPPascalCompiler);
15276: begin
15277:   Function mxArcCos( x : Real ) : Real');
15278:   Function mxArcSin( x : Real ) : Real');
15279:   Function Comp2Str( N : Comp ) : String');
15280:   Function Int2StrPad0( N : LongInt; Len : Integer ) : String');
15281:   Function Int2Str( N : LongInt ) : String');
15282:   Function mxIsEqual( R1, R2 : Double ) : Boolean');
15283:   Function LogXY( x, y : Real ) : Real');
15284:   Function Pennies2Dollars( C : Comp ) : String');
15285:   Function mxPower( X : Integer; Y : Integer ) : Real');
15286:   Function Real2Str( N : Real; Width, Places : integer ) : String');
15287:   Function mxStr2Comp( MyString : string ) : Comp');
15288:   Function mxStr2Pennies( S : String ) : Comp');
15289:   Function Str2Real( MyString : string ) : Real');
15290:   Function XToTheY( x, y : Real ) : Real');
15291: end;
15292:
15293: //*****Cindy Functions!*****
15294: procedure SIRegister_cyIndy(CL: TPSPPascalCompiler);
15295: begin
15296:   CL.AddTypeS('TContentTypeMessage', '( cmPlainText, cmPlainText_Attach, cmHtml'
15297:   +'__Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach, '
15298:   +'cmAlterText_Html_RelatedAttach,cmAlterText_Html_Attach_RelatedAttach,cmReadNotification )');
15299:   MessagePlainText', 'String 'text/plain');
15300:   CL.AddConstantN('MessagePlainText_Attach', 'String 'multipart/mixed');
15301:   MessageAlterText_Html', 'string 'multipart/alternative');
15302:   MessageHtml_Attach', 'String 'multipart/mixed');
15303:   MessageHtml_RelatedAttach', 'String 'multipart/related; type="text/html"');
15304:   MessageAlterText_Html_Attach', 'String 'multipart/mixed');
15305:   MessageAlterText_Html_RelatedAttach', 'String ')('multipart/related;type="multipart/alternative"');
15306:   MessageAlterText_Html_Attach_RelatedAttach', 'String 'multipart/mixed');
15307:   MessageReadNotification', 'String ')(('multipart/report; report-type="disposition-notification"';
15308:   Function ForceDecodeHeader( aHeader : String ) : String');
15309:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding ) : string');
15310:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding ) : String');
15311:   Function Base64_DecodeToBytes( Value : String ) : TBytes;');
15312:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15313:   Function Get_MD5( const aFileName : string ) : string');
15314:   Function Get_MD5FromString( const aString : string ) : string');
15315: end;
15316:
15317: procedure SIRegister_cySysUtils(CL: TPSPPascalCompiler);
15318: begin
15319:   Function IsFolder( SRec : TSearchrec ) : Boolean');
15320:   Function isFolderReadOnly( Directory : String ) : Boolean');
15321:   Function DirectoryIsEmpty( Directory : String ) : Boolean');
15322:   Function DirectoryWithSubDir( Directory : String ) : Boolean');
15323:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings )');
15324:   Function DiskFreeBytes( Drv : Char ) : Int64');
15325:   Function DiskBytes( Drv : Char ) : Int64');
15326:   Function GetFileBytes( Filename : String ) : Int64');
15327:   Function GetFilesBytes( Directory, Filter : String ) : Int64');
15328:   SE_CREATE_TOKEN_NAME', 'String 'SeCreateTokenPrivilege');
15329:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege');
15330:   SE_LOCK_MEMORY_NAME', 'String 'SeLockMemoryPrivilege');
15331:   SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege');
15332:   SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege');
15333:   SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege');
15334:   SE_TCB_NAME', 'String 'SeTcbPrivilege');

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15335: SE_SECURITY_NAME', 'String 'SeSecurityPrivilege');
15336: SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege');
15337: SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege');
15338: SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege');
15339: SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege');
15340: SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege');
15341: SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege');
15342: SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege');
15343: SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege');
15344: SE_BACKUP_NAME', 'String 'SeBackupPrivilege');
15345: SE_RESTORE_NAME', 'String 'SeRestorePrivilege');
15346: SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege');
15347: SE_DEBUG_NAME', 'String 'SeDebugPrivilege');
15348: SE_AUDIT_NAME', 'String 'SeAuditPrivilege');
15349: SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege');
15350: SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege');
15351: SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege');
15352: SE_UNDOCK_NAME', 'String 'SeUndockPrivilege');
15353: SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege');
15354: SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege');
15355: SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege');
15356: end;
15357:
15358:
15359: procedure SIRegister_cyWinUtils(CL: TPSPascalCompiler);
15360: begin
15361:   Type(TWindowsVersion', '( wvUnknown, wvWin31, wvWin98, wvWin'
15362:     +'Me, wvWinNT3, wvWinNT4, wvWin2000, wvWinXP, wvWinVista, wvWin7, wvWin8, wvWin8_Or_Upper )');
15363:   Function ShellGetExtensionName( FileName : String ) : String';
15364:   Function ShellGetIconIndex( FileName : String ) : Integer';
15365:   Function ShellGetIconHandle( FileName : String ) : HIcon';
15366:   Procedure ShellThreadCopy( App_Handle : THandle; fromFile : string; toFile : string );
15367:   Procedure ShellThreadMove( App_Handle : THandle; fromFile : string; toFile : string );
15368:   Procedure ShellRenameDir( DirFrom, DirTo : string );
15369:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15370:   Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15371:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String );
15372:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string );
15373:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
WaitCloseCompletion : boolean) : Boolean';
15374:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer );
15375:   Function RemoveDuplicatedPathDelimiter( Str : String ) : String';
15376:   Function cyFileTimeToDate( _FT : TFileTime ) : TDateTime';
15377:   Function GetModificationDate( Filename : String ) : TDateTime';
15378:   Function GetCreationDate( Filename : String ) : TDateTime';
15379:   Function GetLastAccessDate( Filename : String ) : TDateTime';
15380:   Function FileDelete( Filename : String ) : Boolean';
15381:   Function FileIsOpen( Filename : string ) : boolean';
15382:   Procedure FilesDelete( FromDirectory : String; Filter : ShortString );
15383:   Function DirectoryDelete( Directory : String ) : Boolean';
15384:   Function GetPrinters( PrintersList : TStrings ) : Integer';
15385:   Procedure SetDefaultPrinter( PrinterName : String );
15386:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer );
15387:   Function WinToDosPath( WinPathName : String ) : String';
15388:   Function DosToWinPath( DosPathName : String ) : String';
15389:   Function cyGetWindowsVersion : TWindowsVersion';
15390:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean ) : Boolean';
15391:   Procedure WindowsShutDown( Restart : boolean );
15392:   Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
  FileIcon:string;NumIcone:integer);
15393:   Procedure GetWindowsFonts( FontsList : TStrings );
15394:   Function GetAvailableFilename( DesiredFileName : String ) : String';
15395: end;
15396:
15397: procedure SIRegister_cyStrUtils(CL: TPSPascalCompiler);
15398: begin
15399:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15400:   Type(TStrLocateOptions', 'set of TStrLocateOption');
15401:   Type(TStringRead', '( srFromLeft, srFromRight )');
15402:   Type(TStringReads', 'set of TStringRead');
15403:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15404:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15405:   Type(TWordsOptions', 'set of TWordsOption');
15406:   Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15407:   Type(TCarTypes', 'set of TCarType');
15408:   //CL.AddTypes('TUnicodeCategories', 'set of TUnicodeCategory');
15409:   CarTypeAlphabetic', 'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15410:   Function Char_GetType( aChar : Char ) : TCarType';
15411:   Function SubString_Count( Str : String; Separator : Char ) : Integer';
15412:   Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15413:   Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word ) : String';
15414:   Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15415:   Procedure SubString_Add( var Str : String; Separator : Char; Value : String );
15416:   Procedure SubString_Insert(var Str:String;Separator:Char; SubStringIndex:Word; Value : String );
15417:   Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word; NewValue : String );
15418:   Function SubString_Remove(var Str:String; Separator:Char; SubStringIndex : Word) : Boolean';
15419:   Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15420:   Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer ) : Integer';
15421:   Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';

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15422: Function String_Quote( Str : String ) : String');
15423: Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char ) : Char');
15424: Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15425: Function String_GetWord( Str : String; StringRead : TStringRead ) : String');
15426: Function String_GetInteger( Str : String; StringRead : TStringRead ) : String');
15427: Function String_ToInt( Str : String ) : Integer');
15428: Function String_Uppercase( Str : String; Options : TWordsOptions ) : String');
15429: Function String_Lowercase( Str : String; Options : TWordsOptions ) : String');
15430: Function String_Reverse( Str : String ) : String');
15431: Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15432: Function String_Pos1(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive :
TCaseSensitive):Integer');
15433: Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15434: Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String;_Inclusive:Boolean):String;
15435: Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
Between2MustExist : Boolean; CaseSensitive : TCaseSensitive ) : String');
15436: Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15437: Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive ) : String');
15438: Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads ) : String');
15439: Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer ) : String');
15440: Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15441: Function String_End( Str : String; Cars : Word ) : String');
15442: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
AlwaysFindFromBeginning : Boolean ) : String');
15443: Function String_SubstCar( Str : String; Old, New : Char ) : String');
15444: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive ) : Integer');
15445: Function String_SameCars(Str1,Str2:String;StopCount_IfDifferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15446: Function String_IsNumbers( Str : String ) : Boolean');
15447: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer ) : Integer');
15448: Function StringToCsvCell( aStr : String ) : String');
15449: end;
15450:
15451: procedure SIRegister_cyDateUtils(CL: TPPascalCompiler);
15452: begin
15453: Function LongDayName( aDate : TDate ) : String');
15454: Function LongMonthName( aDate : TDate ) : String');
15455: Function ShortYearOf( aDate : TDate ) : byte';
15456: Function DateToStrYYYYMMDD( aDate : TDate ) : String');
15457: Function StrYYYYMMDDToDate( aStr : String ) : TDate');
15458: Function SecondsToMinutes( Seconds : Integer ) : Double');
15459: Function MinutesToSeconds( Minutes : Double ) : Integer');
15460: Function MinutesToHours( Minutes : Integer ) : Double');
15461: Function HoursToMinutes( Hours : Double ) : Integer');
15462: Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime');
15463: Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer );
15464: Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime');
15465: Function GetMinutesBetween( DateTime1, DateTime2 : TDateTime ) : Int64';
15466: Function GetMinutesBetween1(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15467: Function GetSecondsBetween( DateTime1, DateTime2 : TDateTime ) : Int64');
15468: Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
RsltBegin:TDateTime; RsltEnd : TDateTime ) : Boolean';
15469: Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15470: Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean');
15471: end;
15472:
15473: procedure SIRegister_cyObjUtils(CL: TPPascalCompiler);
15474: begin
15475: Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15476: Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15477: Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15478: Type(TcyLocateOptions', 'set of TcyLocateOption');
15479: Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer');
15480: Function StringsLocate1( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer');
15481: Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer';
15482: Procedure StringsReplace(aList:TStrings;OldStr:String; NewStr:String;ValueKind : TStringsValueKind)');
15483: Procedure StringsSort( aList : TStrings; SortType : TStringsSortType );
15484: Function TreeNodeLocate( ParentNode : TTreeNode; Value : String ) : TTreeNode');
15485: Function TreeNodeLocateOnLevel( TreeView : TTreeView; OnLevel : Integer; Value : String ) : TTreeNode');
15486: Function
TreeNodeGetChildFromIndex(TreeView:TTreeView;ParentNode:TTreeNode;ChildIndex:Integer):TTreeNode';
15487: Function TreeNodeGetParentOnLevel( ChildNode : TTreeNode; ParentLevel : Integer ) : TTreeNode';
15488: Procedure TreeNodeCopy(FromNode:TTreeNode;ToNode:TTreeNode;const CopyChildren:Boolean;const
CopySubChildren:Bool;
15489: Procedure RichEditSetStr( aRichEdit : TRichEdit; FormatedString : String)');
15490: Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15491: Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl');
15492: Procedure cyCenterControl( aControl : TControl );
15493: Function GetLastParent( aControl : TControl ) : TWinControl');
15494: Function GetControlBitmap( aControl : TWinControl ) : TBitmap');
15495: Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap');
15496: end;
15497:
15498: procedure SIRegister_cyBDE(CL: TPPascalCompiler);
15499: begin
15500: Function TablePackTable( Tab : TTable ) : Boolean';
15501: Function TableRegenIndexes( Tab : TTable ) : Boolean';
15502: Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean');
15503: Function TableUndeleteRecord( Tab : TTable ) : Boolean');
15504: Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;

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15505: Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean';
15506: Function TableEmptyTable( Tab : TTable ) : Boolean';
15507: Function TableFindKey( aTable : TTable; Value : String ) : Boolean';
15508: Procedure TableFindNearest( aTable : TTable; Value : String );
15509: Function
  TableCreate(Owner:TComponent; DataBaseName:ShortString; TableName:String; IndexName:ShortString; ReadOnly :
  Boolean):TTable;
15510: Function
  TableOpen(Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool):Bool;
15511: Function DateToBDESQLODate( aDate : TDate; const DateFormat : String ) : String );
15512: end;
15513:
15514: procedure SIRegister_cyClasses(CL: TPSPascalCompiler);
15515: begin
15516:   SIRegister_TcyRunTimeDesign(CL);
15517:   SIRegister_TcyShadowText(CL);
15518:   SIRegister_TcyBgPicture(CL);
15519:   SIRegister_TcyGradient(CL);
15520:   SIRegister_TcyBevel(CL);
15521:   //CL.AddTypes('TcyBevelClass', 'class of tcyBevel');
15522:   SIRegister_TcyBevels(CL);
15523:   SIRegister_TcyImagelistOptions(CL);
15524:   Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture );
15525: end;
15526:
15527: procedure SIRegister_cyGraphics(CL: TPSPascalCompiler);
15528: begin
15529:   Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
  adgradOrientation : TdgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
  Maxdegrade : Byte );
15530:   SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap );
15531:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad : byte);
15532:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad:byte);
15533:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
  Byte; toRect : TRect; OrientationShape : TDgradOrientationShape );
15534:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
  Byte; AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap );
15535:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer );
15536:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer );
15537:   Procedure cyFrame1( Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
  BottomColor : TColor; const Width : Integer; const RoundRect : boolean );
15538:   Procedure cyFrame3D(Canvas:TCanvas;var Rect:TRect;TopLeftColor,
  BottomRightColor:TColor;Width:Integer;const DrawLeft:Boolean;const DrawTop:Boolean;const DrawRight:Boolean;const
  DrawBottom:Boolean;const RoundRect:boolean);
15539:   Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
  aState : TButtonState; Focused, Hot : Boolean );
15540:   Procedure cyDrawButton(Canvas:TCanvas; Caption:String; ARect:TRect; GradientColor1,GradientColor2:TColor;
  aState : TButtonState; Focused, Hot : Boolean );
15541:   Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 :
  TColor; aState : TButtonState; Focused, Hot : Boolean );
15542:   Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
  GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean );
15543:   Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
  const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor );
15544:   Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
  TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer );
15545:   Function DrawTextFormatFlags(aTextFormat:LongInt;Alignment
  TAlignment;Layout:TTextLayout;WordWrap:Boolean):LongInt;
15546:   Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
  WordWrap : Boolean; CaptionRender : TCaptionRender ) : LongInt ;
15547:   Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt );
15548:   Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont ;
15549:   Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont ;
15550:   Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
  CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTextLayout );
15551:   Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
  Integer; const OnlyCalcFoldLine : Boolean; : TLineCoord );
15552:   Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
  Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord ;
15553:   Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint ):boolean';
15554:   Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean';
15555:   Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean';
15556:   Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean';
15557:   Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect );
15558:   Procedure DrawCanvas1(Destination:TCanvas;
  DestRect:TRect;Src:TCanvas;SrcRect:TRect;TransparentColor:TColor; const aStyle:TBgStyle; const
  aPosition:TBgPosition; const IndentX : Integer; const IndentY : Integer;const IntervalX : Integer; const
  IntervalY : Integer; const RepeatX:Integer;const RepeatY:Integer);
15559:   Procedure DrawGraphic( Destination : TCanvas; DestRect : TRect; aGraphic : TGraphic; SrcRect : TRect;
  TransparentColor:TColor; const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer;
  const IndentY:Integer;const IntervalX:Integer;const IntervalY:Integer;const RepeatX:Integer;const
  RepeatY:Integer );
15560:   Procedure DrawGraphic1(Destination:TCanvas; DestRect:TRect;aGraphic : TGraphic; Transparent : Boolean;
  const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer; const IndentY : Integer;
  const IntervalX:Integer; const IntervalY : Integer; const RepeatX:Integer; const RepeatY:Integer );
15561:   Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap );
15562:   Function ValidGraphic( aGraphic : TGraphic ) : Boolean';
15563:   Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor';
15564:   Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor';

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15565: Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor';
15566: Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor';
15567: Function MediumColor( Color1, Color2 : TColor ) : TColor';
15568: Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect';
15569: Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect';
15570: Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect';
15571: Procedure InflateRectPercent( var aRect : TRect; withPercent : Double );
15572: Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect';
15573: Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect';
15574: Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean';
15575: Function PointInEllispe( const aPt : TPoint; const aRect : TRect ) : boolean';
15576: Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer';
15577: end;
15578:
15579: procedure SIRegister_cyTypes(CL: TPPSPascalCompiler);
15580: begin
15581:   Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight ) ');
15582:   Type(TGlyphLayout', '( glTop, glCenter, glBottom ) ');
15583:   Type(TDisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome ) ');
15584:   Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis ) ');
15585:   Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed ) ');
15586:   Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
15587:     + bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft ) ');
15588:   Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional ) ');
15589:   Type(TCyBevelCut', '( bcLowered, bcRaised, bcNone, bcTransparent, bcGradientToNext ) ');
15590:   Type(TDgradOrientation', '( dgdVertical, dgdHorizontal, dgdAngle, dgdRadial, dgdRectangle ) ');
15591:   Type(TDgradOrientationShape', '( osRadial, osRectangle ) ');
15592:   Type(TDgradBalanceMode', 'bmNormal,bmMirror,bmReverse,bmReverseFromColor,bmInvertReverse,
15593:     bmInvertReverseFromColor );
15594:   Type(TRunTimeDesignJob', '( rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
15595:     rjResizeTopLeft, rjResizeBottomLeft, rjResizeRight, rjResizeTopRight, rjResizeBottomRight ) ');
15596: end;
15597:
15598: procedure SIRegister_WinSvc(CL: TPPSPascalCompiler);
15599: begin
15600:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive') ;
15601:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive');
15602:   Const SERVICES_ACTIVE_DATABASE', 'String') 'SERVICES_ACTIVE_DATABASEA');
15603:   Const SERVICES_FAILED_DATABASEA', 'String') 'ServicesFailed');
15604:   Const SERVICES_FAILED_DATABASEW', 'String') 'ServicesFailed');
15605:   Const SERVICES_FAILED_DATABASE', 'String') 'SERVICES_FAILED_DATABASEA');
15606:   Const SC_GROUP_IDENTIFIERA', 'String') . '+');
15607:   Const SC_GROUP_IDENTIFIERW', 'String') '+');
15608:   Const SC_GROUP_IDENTIFIER', 'string 'SC_GROUP_IDENTIFIERA');
15609:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFF');
15610:   Const SERVICE_ACTIVE', 'LongWord') ($00000001);
15611:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15612:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15613:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15614:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15615:   Const SERVICE_CONTROL_INTERROGATE', 'LongWord $00000004);
15616:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15617:   Const SERVICE_STOPPED', 'LongWord $00000001);
15618:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15619:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15620:   Const SERVICE_RUNNING', 'LongWord $00000004);
15621:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15622:   Const SERVICE_PAUSE_PENDING', 'LongWord $00000006);
15623:   Const SERVICE_PAUSED', 'LongWord $00000007);
15624:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15625:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15626:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15627:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15628:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15629:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15630:   Const SC_MANAGER_LOCK', 'LongWord $0008);
15631:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15632:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);
15633:   Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15634:   Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15635:   Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15636:   Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15637:   Const SERVICE_START', 'LongWord $0010);
15638:   Const SERVICE_STOP', 'LongWord $0020);
15639:   Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15640:   Const SERVICE_INTERROGATE', 'LongWord $0080);
15641:   Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15642:   Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15643:   Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15644:   Const SERVICE_ADAPTER', 'LongWord $00000004);
15645:   Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15646:   Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15647:   Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15648:   Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15649:   Const SERVICE_BOOT_START', 'LongWord $00000000);
15650:   Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15651:   Const SERVICE_AUTO_START', 'LongWord $00000002);

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15652: Const SERVICE_DEMAND_START', 'LongWord $00000003);
15653: Const SERVICE_DISABLED', 'LongWord $00000004);
15654: Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15655: Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15656: Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15657: Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15658: CL.AddTypeS('SC_HANDLE', 'THandle');
15659: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15660: CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15661: Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState '
15662: '+: DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe'
15663: +'cificExitCode : DWORD; dwCheckPoint : WORD; dwWaitHint : DWORD; end');
15664: Const SERVICE_STATUS', '_SERVICE_STATUS');
15665: Const TServiceStatus', '_SERVICE_STATUS');
15666: CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis'
15667: +'playName : PChar; ServiceStatus : TServiceStatus; end');
15668: ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15669: _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15670: TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15671: TEnumServiceStatus', 'TEnumServiceStatusA');
15672: SC_LOCK', '__Pointer');
15673: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOwner: PChar; dwLockDuration:DWORD; end';
15674: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15675: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15676: QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15677: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15678: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15679: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15680: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15681: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15682: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15683: +'iceStartTime : PChar; lpDisplayName : PChar; end');
15684: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15685: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15686: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15687: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15688: TQueryServiceConfig', 'TQueryServiceConfigA');
15689: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL';
15690: Function ControlService( hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15691: Function CreateService( hSCManager : SC_HANDLE; lpServiceName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15692: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE';
15693: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15694: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE';
15695: Function DeleteService( hService : SC_HANDLE ) : BOOL';
15696: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD) : BOOL';
15697: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD):BOOL';
15698: Function GetServiceKeyName( hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpchBuffer:DWORD):BOOL';
15699: Function GetServiceDisplayName( hSCManager:SC_HANDLE;lpServiceNme,lpDisplayName:PChar;var
lpchBuffer:DWORD):BOOL';
15700: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK';
15701: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL';
15702: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE';
15703: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE';
15704: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL';
15705: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15706: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15707: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:WORD;var lpServiceArgVectors:PChar):BOOL;
15708: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL';
15709: end;
15710:
15711: procedure SIRRegister_JvPickDate(CL: TPSPascalCompiler);
15712: begin
15713: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek; AWeekendColor:TColor;
BtnHints:TStrings;MinDate:TDateTime;MaxDate: TDateTime):Boolean;
15714: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
DlgCaption:TCaption;AStartOfWeek:TDayOfWeekName;AWeekend:TDaysOfWeek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDateTime;
15715: Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15716: Function CreatePopupCalendar(AOwner:TComponent;ABiDiMode:TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):
TWinControl;
15717: Procedure SetupPopupCalendar(PopupCalendar:TWinControl;AStartOfWeek:TDayOfWeekName;AWeekends:TDaysOfWeek;
AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:TDateTime);
15718: Function CreateNotifyThread(const
FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15719: end;
15720:
15721: procedure SIRRegister_JclNTFS2(CL: TPSPascalCompiler);
15722: begin
15723: CL.AddClassN(CL.FindClass('TOBJECT'),'EJclNtfsError');
15724: CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15725: Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean;');
15726: Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState;');

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15727: Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean');
15728: Procedure NtfsSetFileCompression2(const FileName : TFileName; const State : TFileCompressionState)');
15729: Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)');
15730: Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)');
15731: Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)');
15732: Function NtfsSetSparse2( const FileName : string ) : Boolean');
15733: Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean');
15734: Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean');
15735: Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean');
15736: Function NtfsGetSparse2( const FileName : string ) : Boolean');
15737: Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean');
15738: Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean');
15739: Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean');
15740: Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean');
15741: Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean');
15742: Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean');
15743: Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean');
15744: Function NtfsMountVolume2( const Volume : WideChar; const MountPoint : WideString ) : Boolean');
15745: CL.AddTypeS('TopLock', '({ olExclusive, olReadonly, olBatch, olFilter })');
15746: Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15747: Function NtfsOpLockBreakAckNo22( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15748: Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15749: Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15750: Function NtfsRequestOpLock2( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean');
15751: Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean');
15752: Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean');
15753: Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string ) : Boolean';
15754: CL.AddTypeS('TStreamId', '({ siInvalid, siStandard, siExtendedAttribute, siSec'
15755: +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile })');
15756: CL.AddTypeS('TStreamIds', 'set of TStreamId');
15757: TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds:TStreamIds; end');
15758: CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15759: +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15760: Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData) : Bool;
15761: Function NtfsFindNextStream2( var Data : TFindStreamData ) : Boolean');
15762: Function NtfsFindStreamClose2( var Data : TFindStreamData ) : Boolean');
15763: Function NtfsCreateHardLink2( const LinkFileName, ExistingFileName : String ) : Boolean');
15764: Function NtfsCreateHardLinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean');
15765: Function NtfsCreateHardLinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean');
15766: CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15767: Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean');
15768: Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card;const
List:TStrings) : Bool
15769: Function NtfsDeleteHardlinks2( const FileName : string ) : Boolean');
15770: FindClass('TOBJECT','EJclFileSummaryError');
15771: TJclFileSummaryAccess', '({ fsaRead, fsaWrite, fsaReadWrite })');
15772: TJclFileSummaryShare', '({ fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll })');
15773: TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean');
15774: CL.AddClassN(CL.FindClass('TOBJECT'),'TJclFileSummary');
15775: SIRegister_TJclFilePropertySet(CL);
15776: //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15777: SIRegister_TJclFileSummary(CL);
15778: SIRegister_TJclFileSummaryInformation(CL);
15779: SIRegister_TJclDocSummaryInformation(CL);
15780: SIRegister_TJclMediaFileSummaryInformation(CL);
15781: SIRegister_TJclMSISummaryInformation(CL);
15782: SIRegister_TJclShellSummaryInformation(CL);
15783: SIRegister_TJclStorageSummaryInformation(CL);
15784: SIRegister_TJclImageSummaryInformation(CL);
15785: SIRegister_TJclDisplacedSummaryInformation(CL);
15786: SIRegister_TJclBriefCaseSummaryInformation(CL);
15787: SIRegister_TJclMiscSummaryInformation(CL);
15788: SIRegister_TJclWebViewSummaryInformation(CL);
15789: SIRegister_TJclMusicSummaryInformation(CL);
15790: SIRegister_TJclDRMSummaryInformation(CL);
15791: SIRegister_TJclVideoSummaryInformation(CL);
15792: SIRegister_TJclAudioSummaryInformation(CL);
15793: SIRegister_TJclControlPanelSummaryInformation(CL);
15794: SIRegister_TJclVolumeSummaryInformation(CL);
15795: SIRegister_TJclShareSummaryInformation(CL);
15796: SIRegister_TJclLinkSummaryInformation(CL);
15797: SIRegister_TJclQuerySummaryInformation(CL);
15798: SIRegister_TJclImageInformation(CL);
15799: SIRegister_TJclJpegSummaryInformation(CL);
15800: end;
15801:
15802: procedure SIRegister_Jcl8087(CL: TPPSPascalCompiler);
15803: begin
15804: AddTypeS('T8087Precision', '({ pcSingle, pcReserved, pcDouble, pcExtended })');
15805: T8087Rounding', '({ rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate })');
15806: T8087Infinity', '({ icProjective, icAffine })');
15807: T8087Exception', '({ emInvalidOp, emDenormalizedOperand, emZeroDivide, emOverflow, emUnderflow, emPrecision })');
15808: CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15809: Function Get8087ControlWord : Word');
15810: Function Get8087Infinity : T8087Infinity');
15811: Function Get8087Precision : T8087Precision');
15812: Function Get8087Rounding : T8087Rounding');
15813: Function Get8087StatusWord( ClearExceptions : Boolean ) : Word');
15814: Function Set8087Infinity( const Infinity : T8087Infinity ) : T8087Infinity);

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15815: Function Set8087Precision( const Precision : T8087Precision) : T8087Precision');
15816: Function Set8087Rounding( const Rounding : T8087Rounding) : T8087Rounding');
15817: Function Set8087ControlWord( const Control : Word) : Word');
15818: Function ClearPending8087Exceptions : T8087Exceptions');
15819: Function GetPending8087Exceptions : T8087Exceptions');
15820: Function GetMasked8087Exceptions : T8087Exceptions');
15821: Function SetMasked8087Exceptions(Exceptions: T8087Exceptions;ClearBefore:Boolean):T8087Exceptions');
15822: Function Mask8087Exceptions( Exceptions:T8087Exceptions) : T8087Exceptions');
15823: Function Unmask8087Exceptions(Exceptions:T8087Exceptions;ClearBefore : Boolean) : T8087Exceptions');
15824: end;
15825:
15826: procedure SIRegister_JvBoxProcs(CL: TPPascalCompiler);
15827: begin
15828: Procedure BoxMoveSelectedItems( SrcList, DstList : TWInControl)');
15829: Procedure BoxMoveAllItems( SrcList, DstList : TWInControl)');
15830: Procedure BoxDragOver(List:TWInControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
15831: Procedure BoxMoveFocusedItem( List : TWInControl; DstIndex : Integer)');
15832: Procedure BoxMoveSelected( List : TWInControl; Items : TStrings)');
15833: Procedure BoxSetItem( List : TWInControl; Index : Integer)');
15834: Function BoxGetFirstSelection( List : TWInControl) : Integer');
15835: Function BoxCanDropItem( List : TWInControl; X, Y : Integer; var DragIndex : Integer) : Boolean');
15836: end;
15837:
15838: procedure SIRegister_UrlMon(CL: TPPascalCompiler);
15839: begin
15840: //CL.AddConstantN('SZ_URLCONTEXT','POLEStr').SetString( 'URL Context');
15841: //CL.AddConstantN('SZ_ASYNC_CALLEE','POLEStr').SetString( 'AsyncCallee');
15842: CL.AddConstantN('MKSYS_URLMONIKER','LongInt').SetInt( 6);
15843: type ULONG', 'Cardinal');
15844:     LPCWSTR', 'PChar');
15845: CL.AddTypeS('LPWSTR', 'PChar');
15846: LPSTR', 'PChar');
15847: TBindVerb', 'ULONG');
15848: TBindInfoF', 'ULONG');
15849: TBindF', 'ULONG');
15850: TBSF', 'ULONG');
15851: TBindStatus', 'ULONG');
15852: TCIPStatus', 'ULONG');
15853: TBindString', 'ULONG');
15854: TPiFlags', 'ULONG');
15855: TOIBdgFlags', 'ULONG');
15856: TParseAction', 'ULONG');
15857: TPSUAction', 'ULONG');
15858: TQueryOption', 'ULONG');
15859: TPUAF', 'ULONG');
15860: TSZMFlags', 'ULONG');
15861: TUrlZone', 'ULONG');
15862: TUrlTemplate', 'ULONG');
15863: TZAFlags', 'ULONG');
15864: TUrlZoneReg', 'ULONG');
15865: 'URLMON_OPTION_USERAGENT','LongWord').SetUInt( $10000001);
15866: CL.AddConstantN('URLMON_OPTION_USERAGENT_REFRESH','LongWord').SetUInt( $10000002);
15867: const 'URLMON_OPTION_URL_ENCODING','LongWord').SetUInt( $10000004);
15868: const 'URLMON_OPTION_USE_BINDSTRINGCREDS','LongWord').SetUInt( $10000008);
15869: const 'CF_NULL','LongInt').SetInt( 0);
15870: const 'CFSTR_MIME_NULL','LongInt').SetInt( 0);
15871: const 'CFSTR_MIME_TEXT','String').SetString( 'text/plain');
15872: const 'CFSTR_MIME_RICHTEXT','String').SetString( 'text/richtext');
15873: const 'CFSTR_MIME_X_BITMAP','String').SetString( 'image/x-bitmap');
15874: const 'CFSTR_MIME_POSTSCRIPT','String').SetString( 'application/postscript');
15875: const 'CFSTR_MIME_AIFF','String').SetString( 'audio/aiff');
15876: const 'CFSTR_MIME_BASICAUDIO','String').SetString( 'audio/basic');
15877: const 'CFSTR_MIME_WAV','String').SetString( 'audio/wav');
15878: const 'CFSTR_MIME_X_WAV','String').SetString( 'audio/x-wav');
15879: const 'CFSTR_MIME_GIF','String').SetString( 'image/gif');
15880: const 'CFSTR_MIME_PJPEG','String').SetString( 'image/pjpeg');
15881: const 'CFSTR_MIME_JPEG','String').SetString( 'image/jpeg');
15882: const 'CFSTR_MIME_TIFF','String').SetString( 'image/tiff');
15883: const 'CFSTR_MIME_X_PNG','String').SetString( 'image/x-png');
15884: const 'CFSTR_MIME_BMP','String').SetString( 'image/bmp');
15885: const 'CFSTR_MIME_X_ART','String').SetString( 'image/x-jg');
15886: const 'CFSTR_MIME_X_EMF','String').SetString( 'image/x-emf');
15887: const 'CFSTR_MIME_X_WMF','String').SetString( 'image/x-wmf');
15888: const 'CFSTR_MIME_AVI','String').SetString( 'video/avi');
15889: const 'CFSTR_MIME_MPEG','String').SetString( 'video/mpeg');
15890: const 'CFSTR_MIME_FRACTALS','String').SetString( 'application/fractals');
15891: const 'CFSTR_MIME_RAWDATA','String').SetString( 'application/octet-stream');
15892: const 'CFSTR_MIME_RAWDATASTRM','String').SetString( 'application/octet-stream');
15893: const 'CFSTR_MIME_PDF','String').SetString( 'application/pdf');
15894: const 'CFSTR_MIME_X_AIFF','String').SetString( 'audio/x-aiff');
15895: const 'CFSTR_MIME_X_REALAUDIO','String').SetString( 'audio/x-pn-realaudio');
15896: const 'CFSTR_MIME_X_XBM','String').SetString( 'image/xbm');
15897: const 'CFSTR_MIME_QUICKTIME','String').SetString( 'video/quicktime');
15898: const 'CFSTR_MIME_X_MSVIDEO','String').SetString( 'video/x-msvideo');
15899: const 'CFSTR_MIME_X_SGI_MOVIE','String').SetString( 'video/x-sgi-movie');
15900: const 'CFSTR_MIME_HTML','String').SetString( 'text/html');
15901: const 'MK_S_ASYNCNCHRONOUS','LongWord').SetUInt( $000401E8);
15902: const 'S_ASYNCNCHRONOUS','LongWord').SetUInt( $000401E8);

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15903: const 'E_PENDING', 'LongWord').SetUInt( $80000000);
15904: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IBinding, 'IBinding');
15905: SIRegister_IPersistMoniker(CL);
15906: SIRegister_IBindProtocol(CL);
15907: SIRegister_IBinding(CL);
15908: const 'BINDVERB_GET', 'LongWord').SetUInt( $00000000);
15909: const 'BINDVERB_POST', 'LongWord').SetUInt( $00000001);
15910: const 'BINDVERB_PUT', 'LongWord').SetUInt( $00000002);
15911: const 'BINDVERB_CUSTOM', 'LongWord').SetUInt( $00000003);
15912: const 'BINDINFO_URLENCODESTGMEDDATA', 'LongWord').SetUInt( $00000001);
15913: const 'BINDINFO_URLENCODEDEXTRAINFO', 'LongWord').SetUInt( $00000002);
15914: const 'BINDF_ASYNCRONOUS', 'LongWord').SetUInt( $00000001);
15915: const 'BINDF_ASYNCSTORAGE', 'LongWord').SetUInt( $00000002);
15916: const 'BINDF_NOPROGRESSIVERENDERING', 'LongWord').SetUInt( $00000004);
15917: const 'BINDF_OFFLINEOPERATION', 'LongWord').SetUInt( $00000008);
15918: const 'BINDF_GETNEWESTVERSION', 'LongWord').SetUInt( $00000010);
15919: const 'BINDF_NOWRITECACHE', 'LongWord').SetUInt( $00000020);
15920: const 'BINDF_NEEDFILE', 'LongWord').SetUInt( $00000040);
15921: const 'BINDF_PULLDATA', 'LongWord').SetUInt( $00000080);
15922: const 'BINDF_IGNORESECURITYPROBLEM', 'LongWord').SetUInt( $00000100);
15923: const 'BINDF_RESYNCHRONIZE', 'LongWord').SetUInt( $00000200);
15924: const 'BINDF_HYPERLINK', 'LongWord').SetUInt( $00000400);
15925: const 'BINDF_NO_UI', 'LongWord').SetUInt( $00000800);
15926: const 'BINDF_SILENTOPERATION', 'LongWord').SetUInt( $0001000);
15927: const 'BINDF_PRAGMA_NO_CACHE', 'LongWord').SetUInt( $0002000);
15928: const 'BINDF_FREE_THREADED', 'LongWord').SetUInt( $00010000);
15929: const 'BINDF_DIRECT_READ', 'LongWord').SetUInt( $00020000);
15930: const 'BINDF_FORMS_SUBMIT', 'LongWord').SetUInt( $00040000);
15931: const 'BINDF_GETFROMCACHE_IF_NET_FAIL', 'LongWord').SetUInt( $00080000);
15932: //const 'BINDF_DONTUSECACHE', '').SetString( BINDF_GETNEWESTVERSION);
15933: //const 'BINDF_DONTPUTINCACHE', '').SetString( BINDF_NOWRITECACHE);
15934: //const 'BINDF_NOCOPYDATA', '').SetString( BINDF_PULLDATA);
15935: const 'BSCF_FIRSTDATANOTIFICATION', 'LongWord').SetUInt( $00000001);
15936: const 'BSCF_INTERMEDIATEDATANOTIFICATION', 'LongWord').SetUInt( $00000002);
15937: const 'BSCF_LASTDATANOTIFICATION', 'LongWord').SetUInt( $00000004);
15938: const 'BSCF_DATAFULLYAVAILABLE', 'LongWord').SetUInt( $00000008);
15939: const 'BSCF_AVAILABLEDATASIZEUNKNOWN', 'LongWord').SetUInt( $00000010);
15940: const 'BINDSTATUS_FINDINGRESOURCE', 'LongInt').SetInt( 1);
15941: const 'BINDSTATUS_CONNECTING', 'LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
15942: const 'BINDSTATUS_REDIRECTING', 'LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
15943: const 'BINDSTATUS_BEGINLOADADDA', 'LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
15944: const 'BINDSTATUS_DOWNLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINLOADADDA + 1);
15945: const 'BINDSTATUS_ENDDOWNLOADADDA', 'LongInt').SetInt( BINDSTATUS_DOWNLOADINGDATA + 1);
15946: const 'BINDSTATUS_BEGINLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADADDA + 1);
15947: const 'BINDSTATUS_INSTALLINGCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_BEGINLOADCOMPONENTS + 1);
15948: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
15949: const 'BINDSTATUS_USINGCACHEDCOPY', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
15950: const 'BINDSTATUS_SENDINGREQUEST', 'LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
15951: const 'BINDSTATUS_CLASSIDAVAILABLE', 'LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
15952: const 'BINDSTATUS_MIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
15953: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
15954: const 'BINDSTATUS_BEGINSYNCOPERATION', 'LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
15955: const 'BINDSTATUS_ENDSYNCOPERATION', 'LongInt').SetInt( BINDSTATUS_BEGINSYNCOPERATION + 1);
15956: const 'BINDSTATUS_BEGINUPLOADADDA', 'LongInt').SetInt( BINDSTATUS_ENDSYNCOPERATION + 1);
15957: const 'BINDSTATUS_UPLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINUPLOADADDA + 1);
15958: const 'BINDSTATUS_ENDUPLOADADDA', 'LongInt').SetInt( BINDSTATUS_UPLOADINGDATA + 1);
15959: const 'BINDSTATUS_PROTOCOLCLASSID', 'LongInt').SetInt( BINDSTATUS_ENDUPLOADADDA + 1);
15960: const 'BINDSTATUS_ENCODING', 'LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
15961: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_ENCODING + 1);
15962: const 'BINDSTATUS_CLASSINSTALLLOCATION', 'LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
15963: const 'BINDSTATUS_DECODING', 'LongInt').SetInt( BINDSTATUS_CLASSINSTALLLOCATION + 1);
15964: const 'BINDSTATUS_LOADINGMIMEHANDLER', 'LongInt').SetInt( BINDSTATUS_DECODING + 1);
15965: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH', 'LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
15966: const 'BINDSTATUS_FILTERREPORTMIMETYPE', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
15967: const 'BINDSTATUS_CLSIDCANINSTANTIATE', 'LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
15968: const 'BINDSTATUS_IUNKNOWNAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
15969: const 'BINDSTATUS_DIRECTBIND', 'LongInt').SetInt( BINDSTATUS_IUNKNOWNAVAILABLE + 1);
15970: const 'BINDSTATUS_RAWMIMETYPE', 'LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
15971: const 'BINDSTATUS_PROXYDETECTING', 'LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
15972: const 'BINDSTATUS_ACCEPTRANGES', 'LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
15973: const 'BINDSTATUS_COOKIE_SENT', 'LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
15974: const 'BINDSTATUS_COMPACT_POLICY RECEIVED', 'LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);
15975: const 'BINDSTATUS_COOKIE_SUPPRESSED', 'LongInt').SetInt( BINDSTATUS_COMPACT_POLICY RECEIVED + 1);
15976: const 'BINDSTATUS_COOKIE_STATE_UNKNOWN', 'LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
15977: const 'BINDSTATUS_COOKIE_STATE_ACCEPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_UNKNOWN + 1);
15978: const 'BINDSTATUS_COOKIE_STATE_REJECT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_ACCEPT + 1);
15979: const 'BINDSTATUS_COOKIE_STATE_PROMPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_REJECT + 1);
15980: const 'BINDSTATUS_COOKIE_STATE_LEASH', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_PROMPT + 1);
15981: const 'BINDSTATUS_COOKIE_STATE_DOWNGRADE', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_LEASH + 1);
15982: const 'BINDSTATUS_POLICY_HREF', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
15983: const 'BINDSTATUS_P3P_HEADER', 'LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
15984: const 'BINDSTATUS_SESSION_COOKIE RECEIVED', 'LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
15985: const 'BINDSTATUS_PERSISTENT_COOKIE RECEIVED', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIE RECEIVED + 1);
15986: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED', 'LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE RECEIVED + 1);
15987: const 'BINDSTATUS_CACHECONTROL', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
15988: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME', 'LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
15989: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
15990: const 'BINDSTATUS_PUBLISHERAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
15991: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);

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15992: // PBindInfo', '^TBindInfo // will not work');
15993: {_tagBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
15994: +'medData : TStgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
15995: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
15996: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
15997: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
15998: TBindInfo', '_tagBINDINFO');
15999: BINDINFO', '_tagBINDINFO');
16000: _REMSecurity_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes'
16001: +'criptor : DWORD; bInheritHandle : BOOL; end');
16002: TRemSecurityAttributes', '_REMSecurity_ATTRIBUTES');
16003: REMSECURITY_ATTRIBUTES', '_REMSECURITY_ATTRIBUTES');
16004: //PREmBindInfo', '^TRemBindInfo // will not work');
16005: {_tagRemBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR, '
16006: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16007: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16008: +'; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknown'
16009: +'n; dwReserved : DWORD; end');
16010: TRemBindInfo', '_tagRemBINDINFO');
16011: RemBINDINFO', '_tagRemBINDINFO');
16012: //PREmFormatEtc', '^TRemFormatEtc // will not work');
16013: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
16014: TRemFormatEtc', 'tagRemFORMATETC');
16015: RemFORMATETC', 'tagRemFORMATETC');
16016: SIRegister_IBindStatusCallback(CL);
16017: SIRegister_IAuthenticate(CL);
16018: SIRegister_IHttpNegotiate(CL);
16019: SIRegister_IWindowForBindingUI(CL);
16020: const 'CIP_DISK_FULL','LongInt').SetInt( 0);
16021: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1);
16022: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1);
16023: const 'CIP_OLDER_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1);
16024: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_OLDER_VERSION_EXISTS + 1);
16025: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1);
16026: const 'CIP_EXE_SELF_REGISTERATION_TIMEOUT','LongInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1);
16027: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTERATION_TIMEOUT + 1);
16028: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1);
16029: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1);
16030: SIRegister_ICodeInstall(CL);
16031: SIRegister_IWinInetInfo(CL);
16032: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534);
16033: SIRegister_IHttpSecurity(CL);
16034: SIRegister_IWinInetHttpInfo(CL);
16035: SIRegister_IBindHost(CL);
16036: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001);
16037: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002);
16038: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003);
16039: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback : HResult');
16040: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback : HResult');
16041: Function URLDownloadTofile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB
: IBindStatusCallback) : HResult');
16042: Function URLDownloadToCachefile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 :
IBindStatusCallback) : HResult';
16043: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out
p3:IStream;p4:DWORD;p5:IBindStatusCallback:HResult');
16044: Function HlinkGoBack( unk : IUnknown ) : HResult';
16045: Function HlinkGoForward( unk : IUnknown ) : HResult';
16046: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult');
16047: // Function HlinkNavigateMoniker( unk : IUnknown; mkTarget : IMoniker ) : HResult');
16048: SIRegister_IInternet(CL);
16049: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1);
16050: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1);
16051: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1);
16052: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1);
16053: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1);
16054: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1);
16055: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1);
16056: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1);
16057: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1);
16058: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1);
16059: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1);
16060: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1);
16061: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1);
16062: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1);
16063: //POLEStrArray', '^TOLESTRArray // will not work';
16064: SIRegister_IInternetBindInfo(CL);
16065: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001);
16066: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002);
16067: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004);
16068: const 'PI_USE_WORKERTHREAD','LongWord').SetUInt( $00000008);
16069: const 'PI_MIMEVERIFICATION','LongWord').SetUInt( $00000010);
16070: const 'PI_CLSIDLOOKUP','LongWord').SetUInt( $00000020);
16071: const 'PI_DATAPROGRESS','LongWord').SetUInt( $00000040);
16072: const 'PI_SYNCHRONOUS','LongWord').SetUInt( $00000080);
16073: const 'PI_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16074: const 'PI_CLASSINSTALL','LongWord').SetUInt( $00000200);
16075: const 'PD_FORCE_SWITCH','LongWord').SetUInt( $00010000);
16076: //const 'PI_DOCFILECLSIDLOOKUP','','').SetString( PI_CLSIDLOOKUP);
16077: //PProtocolData', '^TProtocolData // will not work');

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16078: _tagPROTOCOLDATA', 'record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16079: TProtocolData', '_tagPROTOCOLDATA');
16080: PROTOCOLDATA', '_tagPROTOCOLDATA');
16081: CL.AddInterface(CL.FindInterface('IUNKNOWN'), IInternetProtocolSink, 'IInternetProtocolSink');
16082: SIRegister_IInternetProtocolRoot(CL);
16083: SIRegister_IInternetProtocol(CL);
16084: SIRegister_IInternetProtocolSink(CL);
16085: const 'OIBDG_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16086: SIRegister_IInternetSession(CL);
16087: SIRegister_IInternetThreadSwitch(CL);
16088: SIRegister_IInternetPriority(CL);
16089: const 'PARSE_CANONICALIZE','LongInt').SetInt( 1);
16090: const 'PARSE_FRIENDLY','LongInt').SetInt( PARSE_CANONICALIZE + 1);
16091: const 'PARSE_SECURITY_URL','LongInt').SetInt( PARSE_FRIENDLY + 1);
16092: const 'PARSE_ROOTDOCUMENT','LongInt').SetInt( PARSE_SECURITY_URL + 1);
16093: const 'PARSE_DOCUMENT','LongInt').SetInt( PARSE_ROOTDOCUMENT + 1);
16094: const 'PARSE_ANCHOR','LongInt').SetInt( PARSE_DOCUMENT + 1);
16095: const 'PARSE_ENCODE','LongInt').SetInt( PARSE_ANCHOR + 1);
16096: const 'PARSE_DECODE','LongInt').SetInt( PARSE_ENCODE + 1);
16097: const 'PARSE_PATH_FROM_URL','LongInt').SetInt( PARSE_DECODE + 1);
16098: const 'PARSE_URL_FROM_PATH','LongInt').SetInt( PARSE_PATH_FROM_URL + 1);
16099: const 'PARSE_MIME','LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16100: const 'PARSE_SERVER','LongInt').SetInt( PARSE_MIME + 1);
16101: const 'PARSE_SCHEMA','LongInt').SetInt( PARSE_SERVER + 1);
16102: const 'PARSE_SITE','LongInt').SetInt( PARSE_SCHEMA + 1);
16103: const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16104: const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16105: const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16106: const 'PSU_DEFAULT','LongInt').SetInt( 1);
16107: const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16108: const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( 1);
16109: const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16110: const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16111: const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16112: const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16113: const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16114: const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16115: const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16116: const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16117: const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16118: const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16119: const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16120: const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16121: const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16122: SIRegister_IInternetProtocolInfo(CL);
16123: IOInet', 'IInternet');
16124: IOInetBindInfo', 'IInternetBindInfo');
16125: IOInetProtocolRoot', 'IInternetProtocolRoot');
16126: IOInetProtocol', 'IInternetProtocol');
16127: IOInetProtocolSink', 'IInternetProtocolSink');
16128: IOInetProtocolInfo', 'IInternetProtocolInfo');
16129: IOInetSession', 'IInternetSession');
16130: IOInetPriority', 'IInternetPriority');
16131: IOInetThreadSwitch', 'IInternetThreadSwitch');
16132: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16133: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16134: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult';
16135: Function CoInternetGetProtocolFlags(pwzUrl:LPCWSTR;var dwFlags DWORD;dwReserved:DWORD):HResult';
16136: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16137: Function CoInternetGetSession(dwSessionMode:DWORD; var pIInternetSession: IInternetSes;dwReserved:DWORD):HResult;
16138: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TPSUAction;dwReserv:DWORD):HResult;
16139: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16140: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16141: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult';
16142: Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult';
16143: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16144: Function OInetGetSession(dwSessionMode:DWORD; var pIInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16145: //Function CopyBindInfo( const cbisrc : TBindInfo; var bidest : TBindInfo) : HResult';
16146: //Procedure ReleaseBindInfo( const bindinfo : TBindInfo)');
16147: // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult( $800C0011 ) );
16148: // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult( $800C0012 ) );
16149: //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult( $800C0011 ), );
16150: //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult( $800C0013 ) );
16151: //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult( $800C0014 ) );
16152: const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001 );
16153: SIRegister_IInternetSecurityMgrSite(CL);
16154: const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001 );
16155: const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002 );
16156: const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000008 );
16157: const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100 );

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16158: const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16159: const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512);
16160: const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000);
16161: const 'PUAF_NOUI','LongWord').SetUInt( $00000001);
16162: const 'PUAF_ISFILE','LongWord').SetUInt( $00000002);
16163: const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004);
16164: const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008);
16165: const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010);
16166: const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020);
16167: const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040);
16168: const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16169: const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16170: const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200);
16171: const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16172: const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000);
16173: const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000);
16174: const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000);
16175: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000);
16176: const 'PUAF_NOUIIFLOCKED','LongWord').SetUInt( $00100000);
16177: const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0);
16178: const 'PUAFOUT_ISLOCKZONEPOLICY','LongWord').SetUInt( $1);
16179: const 'SZM_CREATE','LongWord').SetUInt( $00000000);
16180: const 'SZM_DELETE','LongWord').SetUInt( $00000001);
16181: SIRegister_IInternetSecurityManager(CL);
16182: SIRegister_IInternetHostSecurityManager(CL);
16183: SIRegister_IInternetSecurityManagerEx(CL);
16184: const 'URLACTION_MIN','LongWord').SetUInt( $00001000);
16185: const 'URLACTION_DOWNLOAD_MIN','LongWord').SetUInt( $00001000);
16186: const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX','LongWord').SetUInt( $00001001);
16187: const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX','LongWord').SetUInt( $00001004);
16188: const 'URLACTION_DOWNLOAD_CURR_MAX','LongWord').SetUInt( $00001004);
16189: const 'URLACTION_DOWNLOAD_MAX','LongWord').SetUInt( $000011FF);
16190: const 'URLACTION_ACTIVEX_MIN','LongWord').SetUInt( $00001200);
16191: const 'URLACTION_ACTIVEX_RUN','LongWord').SetUInt( $00001200);
16192: const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY','LongWord').SetUInt( $00001201);
16193: const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY','LongWord').SetUInt( $00001202);
16194: const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY','LongWord').SetUInt( $00001203);
16195: const 'URLACTION_SCRIPT_OVERRIDE_SAFETY','LongWord').SetUInt( $00001401);
16196: const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY','LongWord').SetUInt( $00001204);
16197: const 'URLACTION_ACTIVEX_TREATASUNTRUSTED','LongWord').SetUInt( $00001205);
16198: const 'URLACTION_ACTIVEX_NO_WEBOC_SCRIPT','LongWord').SetUInt( $00001206);
16199: const 'URLACTION_ACTIVEX_CURR_MAX','LongWord').SetUInt( $00001206);
16200: const 'URLACTION_ACTIVEX_MAX','LongWord').SetUInt( $000013FF);
16201: const 'URLACTION_SCRIPT_MIN','LongWord').SetUInt( $00001400);
16202: const 'URLACTION_SCRIPT_RUN','LongWord').SetUInt( $00001400);
16203: const 'URLACTION_SCRIPT_JAVA_USE','LongWord').SetUInt( $00001402);
16204: const 'URLACTION_SCRIPT_SAFE_ACTIVEX','LongWord').SetUInt( $00001405);
16205: const 'URLACTION_SCRIPT_CURR_MAX','LongWord').SetUInt( $00001405);
16206: const 'URLACTION_SCRIPT_MAX','LongWord').SetUInt( $000015FF);
16207: const 'URLACTION_HTML_MIN','LongWord').SetUInt( $00001600);
16208: const 'URLACTION_HTML_SUBMIT_FORMS','LongWord').SetUInt( $00001601);
16209: const 'URLACTION_HTML_SUBMIT_FORMS_FROM','LongWord').SetUInt( $00001602);
16210: const 'URLACTION_HTML_SUBMIT_FORMS_TO','LongWord').SetUInt( $00001603);
16211: const 'URLACTION_HTML_FONT_DOWNLOAD','LongWord').SetUInt( $00001604);
16212: const 'URLACTION_HTML_JAVA_RUN','LongWord').SetUInt( $00001605);
16213: const 'URLACTION_HTML_CURR_MAX','LongWord').SetUInt( $00001605);
16214: const 'URLACTION_HTML_MAX','LongWord').SetUInt( $000017FF);
16215: const 'URLACTION_SHELL_MIN','LongWord').SetUInt( $00001800);
16216: const 'URLACTION_SHELL_INSTALL_DTITEMS','LongWord').SetUInt( $00001800);
16217: const 'URLACTION_SHELL_MOVE_OR_COPY','LongWord').SetUInt( $00001802);
16218: const 'URLACTION_SHELL_FILE_DOWNLOAD','LongWord').SetUInt( $00001803);
16219: const 'URLACTION_SHELL_VERB','LongWord').SetUInt( $00001804);
16220: const 'URLACTION_SHELL_WEBVIEW_VERB','LongWord').SetUInt( $00001805);
16221: const 'URLACTION_SHELL_SHELLEXECUTE','LongWord').SetUInt( $00001806);
16222: const 'URLACTION_SHELL_EXECUTE_HIGHRISK','LongWord').SetUInt( $00001806);
16223: const 'URLACTION_SHELL_EXECUTE_MODRISK','LongWord').SetUInt( $00001807);
16224: const 'URLACTION_SHELL_EXECUTE_LOWRISK','LongWord').SetUInt( $00001808);
16225: const 'URLACTION_SHELL_POPUPMGR','LongWord').SetUInt( $00001809);
16226: const 'URLACTION_SHELL_CURR_MAX','LongWord').SetUInt( $00001809);
16227: const 'URLACTION_SHELL_MAX','LongWord').SetUInt( $000019ff);
16228: const 'URLACTION_NETWORK_MIN','LongWord').SetUInt( $00001A00);
16229: const 'URLACTION_CREDENTIALS_USE','LongWord').SetUInt( $00001A00);
16230: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK','LongWord').SetUInt( $00000000);
16231: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER','LongWord').SetUInt( $00010000);
16232: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT','LongWord').SetUInt( $00020000);
16233: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY','LongWord').SetUInt( $00030000);
16234: const 'URLACTION_AUTHENTICATE_CLIENT','LongWord').SetUInt( $00001A01);
16235: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK','LongWord').SetUInt( $00000000);
16236: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE','LongWord').SetUInt( $00010000);
16237: const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY','LongWord').SetUInt( $00030000);
16238: const 'URLACTION_NETWORK_CURR_MAX','LongWord').SetUInt( $00001A01);
16239: const 'URLACTION_NETWORK_MAX','LongWord').SetUInt( $00001BFF);
16240: const 'URLACTION_JAVA_MIN','LongWord').SetUInt( $00001C00);
16241: const 'URLACTION_JAVA_PERMISSIONS','LongWord').SetUInt( $00001C00);
16242: const 'URLPOLICY_JAVA_PROHIBIT','LongWord').SetUInt( $00000000);
16243: const 'URLPOLICY_JAVA_HIGH','LongWord').SetUInt( $00010000);
16244: const 'URLPOLICY_JAVA_MEDIUM','LongWord').SetUInt( $00020000);
16245: const 'URLPOLICY_JAVA_LOW','LongWord').SetUInt( $00030000);
16246: const 'URLPOLICY_JAVA_CUSTOM','LongWord').SetUInt( $00800000);

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16247: const 'URLACTION_JAVA_CURR_MAX', 'LongWord').SetUInt( $00001C00);
16248: const 'URLACTION_JAVA_MAX', 'LongWord').SetUInt( $00001CFF);
16249: const 'URLACTION_INFODELIVERY_MIN', 'LongWord').SetUInt( $00001D00);
16250: const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS', 'LongWord').SetUInt( $00001D00);
16251: const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS', 'LongWord').SetUInt( $00001D01);
16252: const 'URLACTION_INFODELIVERY_NO_Removing_CHANNELS', 'LongWord').SetUInt( $00001D02);
16253: const 'URLACTION_INFODELIVERY_NO_ADDING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D03);
16254: const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D04);
16255: const 'URLACTION_INFODELIVERY_NO_Removing_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D05);
16256: const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING', 'LongWord').SetUInt( $00001D06);
16257: const 'URLACTION_INFODELIVERY_CURR_MAX', 'LongWord').SetUInt( $00001D06);
16258: const 'URLACTION_INFODELIVERY_MAX', 'LongWord').SetUInt( $00001DEF);
16259: const 'URLACTION_CHANNEL_SOFTDIST_MIN', 'LongWord').SetUInt( $00001E00);
16260: const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS', 'LongWord').SetUInt( $00001E05);
16261: const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT', 'LongWord').SetUInt( $00010000);
16262: const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE', 'LongWord').SetUInt( $00020000);
16263: const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL', 'LongWord').SetUInt( $00030000);
16264: const 'URLACTION_CHANNEL_SOFTDIST_MAX', 'LongWord').SetUInt( $00001EFF);
16265: const 'URLACTION_BEHAVIOR_MIN', 'LongWord').SetUInt( $00002000);
16266: const 'URLACTION_BEHAVIOR_RUN', 'LongWord').SetUInt( $00002000);
16267: const 'URLPOLICY_BEHAVIOR_CHECK_LIST', 'LongWord').SetUInt( $00010000);
16268: const 'URLACTION_FEATURE_MIN', 'LongWord').SetUInt( $00002100);
16269: const 'URLACTION_FEATURE_MIME_SNIFFING', 'LongWord').SetUInt( $00002100);
16270: const 'URLACTION_FEATURE_ZONE_ELEVATION', 'LongWord').SetUInt( $00002101);
16271: const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS', 'LongWord').SetUInt( $00002102);
16272: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN', 'LongWord').SetUInt( $00002200);
16273: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI', 'LongWord').SetUInt( $00002200);
16274: const 'URLACTION_AUTOMATIC_ACTIVEX_UI', 'LongWord').SetUInt( $00002201);
16275: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS', 'LongWord').SetUInt( $00002300);
16276: const 'URLPOLICY_ALLOW', 'LongWord').SetUInt( $00);
16277: const 'URLPOLICY_QUERY', 'LongWord').SetUInt( $01);
16278: const 'URLPOLICY_DISALLOW', 'LongWord').SetUInt( $03);
16279: const 'URLPOLICY_NOTIFY_ON_ALLOW', 'LongWord').SetUInt( $10);
16280: const 'URLPOLICY_NOTIFY_ON_DISALLOW', 'LongWord').SetUInt( $20);
16281: const 'URLPOLICY_LOG_ON_ALLOW', 'LongWord').SetUInt( $40);
16282: const 'URLPOLICY_LOG_ON_DISALLOW', 'LongWord').SetUInt( $80);
16283: const 'URLPOLICY_MASK_PERMISSIONS', 'LongWord').SetUInt( $0F);
16284: Function GetUrlPolicyPermissions( dw : DWORD) : DWORD';
16285: Function SetUrlPolicyPermissions( dw, dw2 : DWORD) : DWORD';
16286: const 'URLZONE_PREDEFINED_MIN', 'LongInt').SetInt( 0);
16287: const 'URLZONE_LOCAL_MACHINE', 'LongInt').SetInt( 0);
16288: const 'URLZONE_INTRANET', 'LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16289: const 'URLZONE_TRUSTED', 'LongInt').SetInt( URLZONE_INTRANET + 1);
16290: const 'URLZONE_INTERNET', 'LongInt').SetInt( URLZONE_TRUSTED + 1);
16291: const 'URLZONE_UNTRUSTED', 'LongInt').SetInt( URLZONE_INTERNET + 1);
16292: const 'URLZONE_PREDEFINED_MAX', 'LongInt').SetInt( 999);
16293: const 'URLZONE_USER_MIN', 'LongInt').SetInt( 1000);
16294: const 'URLZONE_USER_MAX', 'LongInt').SetInt( 10000);
16295: const 'URLTEMPLATE_CUSTOM', 'LongWord').SetUInt( $00000000);
16296: const 'URLTEMPLATE_PREDEFINED_MIN', 'LongWord').SetUInt( $00010000);
16297: const 'URLTEMPLATE_LOW', 'LongWord').SetUInt( $00010000);
16298: const 'URLTEMPLATE_MEDIUM', 'LongWord').SetUInt( $00011000);
16299: const 'URLTEMPLATE_HIGH', 'LongWord').SetUInt( $00012000);
16300: const 'URLTEMPLATE_PREDEFINED_MAX', 'LongWord').SetUInt( $00020000);
16301: const 'MAX_ZONE_PATH', 'LongInt').SetInt( 260);
16302: const 'MAX_ZONE_DESCRIPTION', 'LongInt').SetInt( 200);
16303: const 'ZAFLAGS_CUSTOM_EDIT', 'LongWord').SetUInt( $00000001);
16304: const 'ZAFLAGS_ADD_SITES', 'LongWord').SetUInt( $00000002);
16305: const 'ZAFLAGS_REQUIRE_VERIFICATION', 'LongWord').SetUInt( $00000004);
16306: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE', 'LongWord').SetUInt( $00000008);
16307: const 'ZAFLAGS_INCLUDE_INTRANET_SITES', 'LongWord').SetUInt( $00000010);
16308: const 'ZAFLAGS_NO_UI', 'LongWord').SetUInt( $00000020);
16309: const 'ZAFLAGS_SUPPORTS_VERIFICATION', 'LongWord').SetUInt( $00000040);
16310: const 'ZAFLAGS_UNC_AS_INTRANET', 'LongWord').SetUInt( $00000080);
16311: const 'ZAFLAGS_USE_LOCKED_ZONES', 'LongWord').SetUInt( $00010000);
16312: //PZoneAttributes', '_TZoneAttributes // will not work';
16313: _ZONEATTRIBUTES', 'record cbSize:ULONG;szDisplayName:array [0..260-1] of Char;szDescription:array [0..200 - 1] of Char;szIconPath: array [0..260 - 1] of char;dwTemplateMinLevel: DWORD; dwTemplateRecommended: DWORD; dwTemplateCurrentLevel: DWORD; dwFlags: DWORD; end');
16314: { _ZONEATTRIBUTES = packed record
16315:   cbSize: ULONG;
16316:   szDisplayName: array [0..260 - 1] of WideChar;
16317:   szDescription: array [0..200 - 1] of WideChar;
16318:   szIconPath: array [0..260 - 1] of WideChar;
16319:   dwTemplateMinLevel: DWORD;
16320:   dwTemplateRecommended: DWORD;
16321:   dwTemplateCurrentLevel: DWORD;
16322:   dwFlags: DWORD;
16323: end; }
16324: TZoneAttributes', '_ZONEATTRIBUTES');
16325: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16326: const 'URLZONEREG_DEFAULT', 'LongInt').SetInt( 0);
16327: const 'URLZONEREG_HKLM', 'LongInt').SetInt( URLZONEREG_DEFAULT + 1);
16328: const 'URLZONEREG_HKCU', 'LongInt').SetInt( URLZONEREG_HKLM + 1);
16329: SIRegister_IInternetZoneManager(CL);
16330: SIRegister_IInternetZoneManagerEx(CL);
16331: const 'SOFTDIST_FLAG_USAGE_EMAIL', 'LongWord').SetUInt( $00000001);
16332: const 'SOFTDIST_FLAG_USAGE_PRECACHE', 'LongWord').SetUInt( $00000002);
16333: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL', 'LongWord').SetUInt( $00000004);

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16334: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION','LongWord').SetUInt( $00000008);
16335: const 'SOFTDIST_ASTATE_NONE','LongWord').SetUInt( $00000000);
16336: const 'SOFTDIST_ASTATE_AVAILABLE','LongWord').SetUInt( $00000001);
16337: const 'SOFTDIST_ASTATE_DOWNLOADED','LongWord').SetUInt( $00000002);
16338: const 'SOFTDIST_ASTATE_INSTALLED','LongWord').SetUInt( $00000003);
16339: //PCodeBaseHold', '^TCodeBaseHold // will not work');
16340: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR; '
16341: +'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionsLS : DWORD; dwStyle : DWORD; end');
16342: TCodeBaseHold', '_tagCODEBASEHOLD');
16343: CODEBASEHOLD', '_tagCODEBASEHOLD');
16344: //PSoftDistInfo', '^TSoftDistInfo // will not work');
16345: _tagsOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd'
16346: +'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI'
16347: +'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS'
16348: +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve'
16349: +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16350: TSoftDistInfo', '_tagSOFDTDISTINFO');
16351: SOFTDISTINFO', '_tagSOFDTDISTINFO');
16352: SIRegister_ISoftDistExt(CL);
16353: Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo) : HResult');
16354: Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : DWORD) : HResult';
16355: SIRegister_IDataFilter(CL);
16356: // PProtocolFilterData', '^TProtocolFilterData // will not work');
16357: _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink : '
16358: +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil'
16359: +'terFlags : DWORD; end');
16360: TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16361: PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16362: //PDataInfo', '^TDataInfo // will not work');
16363: _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL'
16364: +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16365: TDataInfo', '_tagDATAINFO');
16366: DATAINFO', '_tagDATAINFO');
16367: SIRegister_IEncodingFilterFactory(CL);
16368: Function IsLoggingEnabled( pszUrl : PChar) : BOOL';
16369: //Function IsLoggingEnabledA( pszUrl : PAnsiChar) : BOOL';
16370: //Function IsLoggingEnabledW( pszUrl : PWideChar) : BOOL';
16371: //PHitLoggingInfo', 'THitLoggingInfo // will not work');
16372: _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU'
16373: +'rlName : LPSTR; StartTime : TSystemTime; EndTime:TSystemTime; lpszExtendedInfo : LPSTR; end');
16374: THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16375: HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16376: Function WriteHitLogging( const Logginginfo : THitLoggingInfo) : BOOL';
16377: end;
16378:
16379: procedure SIRegister_DFFUtils(CL: TPPascalCompiler);
16380: begin
16381: Procedure reformatMemo( const m : TCustomMemo)');
16382: Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer)');
16383: Procedure MoveToTop( memo : TMemo)');
16384: Procedure ScrollToTop( memo : TMemo)');
16385: Function LineNumberClicked( memo : TMemo) : integer');
16386: Function MemoClickedLine( memo : TMemo) : integer');
16387: Function ClickedMemoLine( memo : TMemo) : integer');
16388: Function MemoLineClicked( memo : TMemo) : integer');
16389: Function LinePositionClicked( Memo : TMemo) : integer');
16390: Function ClickedMemoPosition( memo : TMemo) : integer');
16391: Function MemoPositionClicked( memo : TMemo) : integer');
16392: Procedure AdjustGridSize( grid : TDrawGrid)');
16393: Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer)');
16394: Procedure InsertgridRow( Grid : TStringGrid; const ARow : integer)');
16395: Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer)');
16396: Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascendant : boolean;');
16397: Procedure sortstrDown( var s : string)');
16398: Procedure sortstrUp( var s : string)');
16399: Procedure rotatestrleft( var s : string)');
16400: Function dffstrtofloatdef( s : string; default : extended) : extended');
16401: Function deblank( s : string) : string');
16402: Function IntToBinaryString( const n : integer; MinLength : integer) : string');
16403: Procedure FreeAndClearListBox( C : TListBox)');
16404: Procedure FreeAndClearMemo( C : TMemo)');
16405: Procedure FreeAndClearStringList( C : TStringList)');
16406: Function dffgetfilesize( f : TSearchrec) : int64');
16407: end;
16408:
16409: procedure SIRegister_MathsLib(CL: TPPascalCompiler);
16410: begin
16411: CL.AddTypeS('intset', 'set of byte');
16412: TPoint64', 'record x : int64; y : int64; end');
16413: Function GetNextPandigital( size : integer; var Digits : array of integer) : boolean');
16414: Function IsPolygonal( T : int64; var rank : array of integer) : boolean');
16415: Function GeneratePentagon( n : integer) : integer');
16416: Function IsPentagon( p : integer) : boolean');
16417: Function isSquare( const N : int64) : boolean');
16418: Function isCube( const N : int64) : boolean');
16419: Function isPalindrome( const n : int64) : boolean');
16420: Function isPalindromel( const n : int64; var len : integer) : boolean');
16421: Function GetEulerPhi( n : int64) : int64');

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16422: Function dffIntPower( a, b : int64 ) : int64;');
16423: Function IntPower1( a : extended; b : int64 ) : extended;');
16424: Function gcd2( a, b : int64 ) : int64');
16425: Function GCDMany( A : array of integer ) : integer');
16426: Function LCMMany( A : array of integer ) : integer');
16427: Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16428: Function dffFactorial( n : int64 ) : int64');
16429: Function digitcount( n : int64 ) : integer');
16430: Function nextpermute( var a : array of integer ) : boolean');
16431: Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string');
16432: Function convertStringToDecimal( s : string; var n : extended ) : Boolean');
16433: Function InttoBinaryStr( nn : integer ) : string');
16434: Function StrToAngle( const s : string; var angle : extended ) : boolean');
16435: Function AngleToStr( angle : extended ) : string');
16436: Function deg2rad( deg : extended ) : extended');
16437: Function rad2deg( rad : extended ) : extended');
16438: Function GetLongToMercProjection( const long : extended ) : extended');
16439: Function GetLatToMercProjection( const Lat : Extended ) : Extended');
16440: Function GetMercProjectionToLong( const ProjLong : extended ) : extended');
16441: Function GetMercProjectionToLat( const ProjLat : extended ) : extended');
16442: SIRegister_TPrimes(CL);
16443: //RIRegister_TPrimes(CL);
16444: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16445: CL.AddConstantN('minmark','LongInt').SetInt( 180));
16446: Function Random64( const N : Int64 ) : Int64;');
16447: Procedure Randomize64');
16448: Function Random641 : extended;');
16449: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist)//DFFUtils
16450: end;
16451:
16452: procedure SIRegister_UGeometry(CL: TPSPascalCompiler);
16453: begin
16454:   TrealPoint', 'record x : extended; y : extended; end');
16455:   Tline', 'record pl : TPoint; p2 : TPoint; end');
16456:   TRealLine', 'record pl : TRealPoint; p2 : TRealPoint; end');
16457:   TCircle', 'record cx : integer; cy : integer; r : integer; end');
16458:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16459:   PPResult', '( PPOutside, PPIInside, PPVertex, PPEdge, PPError )');
16460:   Function realpoint( x, y : extended ) : TRealPoint');
16461:   Function dist( const pl, p2 : TrealPoint ) : extended');
16462:   Function intdist( const pl, p2 : TPoint ) : integer');
16463:   Function dffLine( const pl, p2 : TPoint ) : Tline');
16464:   Function Linel( const pl, p2 : TRealPoint ) : TRealline');
16465:   Function dffCircle( const cx, cy, R : integer ) : TCircle');
16466:   Function Circlel( const cx, cy, R : extended ) : TRealCircle');
16467:   Function GetTheta( const L : TLine ) : extended');
16468:   Function GetTheta1( const pl, p2 : TPoint ) : extended');
16469:   Function GetTheta2( const pl, p2 : TRealPoint ) : extended');
16470:   Procedure Extendline( var L : TLine; dist : integer );
16471:   Procedure Extendline1( var L : TRealLine; dist : extended );
16472:   Function Linesintersect( line1, line2 : TLine ) : boolean );
16473:   Function ExtendedLinesIntersect( Line1,Line2:TLine; const extendlines:bool;var IP:TPoint ):bool;
16474:   Function ExtendedLinesIntersect1(const Line1,Line2:TLine;const extendlines:bool;var IP:TRealPoint ):bool;
16475:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean );
16476:   Function PointPerpendicularLine( L : TLine; P : TPoint ) : TLine );
16477:   Function PerpDistance( L : TLine; P : TPoint ) : Integer );
16478:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine );
16479:   Function AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16480:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult );
16481:   Function PolygonArea( const points:array of TPoint;const screencoordinates:boolean;var Clockwise:boolean ):integer;
16482:   Procedure InflatePolygon( const points:array of Tpoint; var points2:array of TPoint;var area:integer;
16483:     const screenCoordinates : boolean; const inflateby : integer );
16484:   Function PolyBuiltClockwise( const points:array of TPoint;const screencoordinates:boolean ):bool;
16485:   Function DegtoRad( d : extended ) : extended );
16486:   Function RadtoDeg( r : extended ) : extended );
16487:   Procedure TranslateLeftTo( var L : TLine; newend : TPoint );
16488:   Procedure TranslateLeftTo1( var L : TrealLine; newend : TrealPoint );
16489:   Procedure RotateRightEndBy( var L : TLine; alpha : extended );
16490:   Procedure RotateRightEndTo( var L : TLine; alpha : extended );
16491:   Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, Ip2 : TPoint ) : boolean );
16492:   Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, Ip2 : TRealPoint ) : boolean );
16493:   Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine ) : boolean );
16494:   Function CircleCircleExtTangentLines(C1,C2:TCircle;var C3:TCircle;var L1,L2,PL1,PL2,TL1,TL2:TLine):Bool;
16495: end;
16496:
16497:
16498: procedure SIRegister_UAstronomy(CL: TPSPascalCompiler);
16499: begin
16500:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat ) );
16501:   TDTType', '( ttLocal, ttUT, ttGST, ttLST ) );
16502:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16503:   TSunrec', 'record TrueEclLon:extended;
16504:     AppEclLon:extended;AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
16505:     TrueAzAlt:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRPoint;SunMeanAnomaly:extended;end;
16504:   TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl : '
16505:     +' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'

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16506: +'arth : extended; Phase : extended; end');
16507: TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16508: +'Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDatetime; end');
16509: TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16510: +'ct : TDatetime; LastContact : TDatetime; Magnitude:Extended;MaxeclipseUTime:TDateTme;end');
16511: TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16512: TPlanetRec', 'record AsOf : TDateTime; Name : string; MeanLon : '
16513: +'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16514: +'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16515: +'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16516: TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentricLonLat : TRpoint; RadiusVector :
extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRpoint; CorrectedEarthDistance:extended;
ApparentRaDecl:TRPoint; end');
16517: SIRegister_TAstromy(CL);
16518: Function AngleToStr( angle : extended) : string');
16519: Function StrToAngle( s : string; var angle : extended) : boolean');
16520: Function HoursToStr24( t : extended) : string');
16521: Function RPoint( x, y : extended) : TRPoint');
16522: Function getStimenename( t : TDTType) : string');
16523: end;
16524:
16525: procedure SIRegister_UCardComponentV2(CL: TPSPPascalCompiler);
16526: begin
16527: TCardValue', 'Integer');
16528: TCardSuit', '( Spades, Diamonds, Clubs, Hearts )');
16529: TShortSuit', '( cardS, cardD, cardC, cardH )');
16530: Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16531: SIRegister_TCard(CL);
16532: SIRegister_TDeck(CL);
16533: end;
16534:
16535: procedure SIRegister_UTGraphSearch(CL: TPSPPascalCompiler);
16536: begin
16537: tMethodCall', 'Procedure');
16538: tVerboseCall', 'Procedure ( s : string)');
16539: // PTEdge', '^TEdge // will not work');
16540: TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer;
16541: +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16542: SIRegister_TNode(CL);
16543: SIRegister_TGraphList(CL);
16544: end;
16545:
16546: procedure SIRegister_UParser10(CL: TPSPPascalCompiler);
16547: begin
16548: ParserFloat', 'extended');
16549: //PParserFloat', '^ParserFloat // will not work');
16550: TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod';
16551: +'ulo, IntDiv, IntDIVZ, integerpower, realpower,square,third,fourth,FuncOneVar,FuncTwoVar ');
16552: //POperation', '^TOperation // will not work');
16553: TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16554: +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure';
16555: +'; Token : TDFFToken; end');
16556: TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16557: (CL.FindClass('TOBJECT'),'EMathParserError');
16558: CL.FindClass('TOBJECT'),'ESyntaxError');
16559: (CL.FindClass('TOBJECT'),'EExpressionHasBlanks');
16560: (CL.FindClass('TOBJECT'),'EExpressionTooComplex');
16561: (CL.FindClass('TOBJECT'),'ETooManyNestings');
16562: (CL.FindClass('TOBJECT'),'EMissMatchingBracket');
16563: (CL.FindClass('TOBJECT'),'EBadName');
16564: (CL.FindClass('TOBJECT'),'EParseInternalError');
16565: ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16566: SIRegister_TCustomParser(CL);
16567: SIRegister_TExParser(CL);
16568: end;
16569:
16570: function isService: boolean;
16571: begin
16572: result:= NOT(Application is TApplication);
16573: {result:= Application is TServiceApplication;}
16574: end;
16575: function isApplication: boolean;
16576: begin
16577: result:= Application is TApplication;
16578: end;
16579: //SM_REMOTESESSION = $1000
16580: function isTerminalSession: boolean;
16581: begin
16582: result:= GetSystemMetrics(SM_REMOTESESSION) > 0;
16583: end;
16584:
16585: procedure SIRegister_cyIEUtils(CL: TPSPPascalCompiler);
16586: begin
16587: CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header : '
16588: +'String; margin_bottom : String; margin_left : String; margin_right : String'
16589: +'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16590: Function cyURLEncode( const S : string ) : string');
16591: Function MakeResourceURL(const ModuleName:string;const ResName:PChar;const ResType:PChar):string;
16592: Function MakeResourceURL1(const Module:HMODULE;const ResName:PChar;const ResType:PChar):string;

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16593: Function cyColorToHtml( aColor : TColor ) : String';
16594: Function HtmlToColor( aHtmlColor : String ) : TColor';
16595: //Function GetStreamEncoding( aStream : TStream ) : TEncoding';
16596: // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding ) : Boolean';
16597: Function AddHtmlUnicodePrefix( aHtml : String ) : String';
16598: Function RemoveHtmlUnicodePrefix( aHtml : String ) : String';
16599: Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16600: Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16601: CL.AddConstantN('IEBodyBorderless','String').SetString('none');
16602: CL.AddConstantN('IEBodySingleBorder','String').SetString('');
16603: CL.AddConstantN('IEDesignModeOn','String').SetString('On');
16604: CL.AddConstantN('IEDesignModeOff','String').SetString('Off');
16605: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF );
16606: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE );
16607: end;
16608:
16609:
16610: procedure SIRегистer_UcomboV2(CL: TPSPascalCompiler);
16611: begin
16612:   CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16613:   CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe'
16614:     +'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe'
16615:     +'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb'
16616:     +'inationsRepeat, CombinationsRepeatDown )');
16617:   CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16618:   SIRегистer_TComboSet(CL);
16619: end;
16620:
16621: procedure SIRегистer_cyBaseComm(CL: TPSPascalCompiler);
16622: begin
16623:   TcyCommandType', '( ctDevelopperDefined, ctUserDefined )');
16624:   TStreamContentType', '( scDevelopperDefined, scUserDefined, scString )';
16625:   TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16626:   TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo'
16627:     +'mmHandle : THandle; aString : String; userParam : Integer )';
16628:   TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from'
16629:     +'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16630:   SIRегистer_TcyBaseComm(CL);
16631:   CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1 );
16632:   CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16633:   Function ValidatefileMappingName( aName : String ) : String';
16634:   procedure makeCaption(leftSide, Rightside:string; form:TForm);
16635: end;
16636:
16637: procedure SIRегистer_cyDERUtils(CL: TPSPascalCompiler);
16638: begin
16639:   CL.AddTypeS('DERString', 'String');
16640:   CL.AddTypeS('DERChar', 'Char');
16641:   CL.AddTypeS('TEElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt'
16642:     +'eger, etFloat, etPercentage, etwebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph )');
16643:   CL.AddTypeS('TEElementsTypes', 'set of TEElementsType');
16644:   CL.AddTypeS('DERNString', 'String');
16645:   const DERDecimalSeparator','String').SetString( '.' );
16646:   const DERDefaultChars','String')('+^@/%-'
16647:     _.:0123456789abcdefghijklmnoprstuvwxyzABCDEFIGHJKLMNOPQRSTUVWXYZ');
16648:   const DERDefaultChars','String').SetString( '/%-.0123456789abcdefghijklmnoprstuvwxyz' );
16649:   CL.AddDelphiFunction('Function isValidWebSiteChar( aChar : Char ) : Boolean');
16650:   Function isValidWebMailChar( aChar : Char ) : Boolean';
16651:   Function isValidwebSite( aStr : String ) : Boolean';
16652:   Function isValidWebMail( aStr : String ) : Boolean';
16653:   Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16654:   Function DERStrToDate( aDERStr, aFormat : String ) : TDate';
16655:   Function IsDERChar( aChar : Char ) : Boolean';
16656:   Function IsDERDefaultChar( aChar : Char ) : Boolean';
16657:   Function IsDERMoneyChar( aChar : Char ) : Boolean';
16658:   Function IsDERExceptionChar( aChar : Char ) : Boolean';
16659:   Function IsDERSymbols( aDERString : String ) : Boolean';
16660:   Function StringToDERCharSet( aStr : String ) : DERstring';
16661:   Function IsDERNDefaultChar( aChar : Char ) : Boolean';
16662:   Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16663:   Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String';
16664:   Function DERExtractWebMail( aDERStr : DERString ) : String';
16665:   Function DERExtractPhoneNr( aDERStr : DERString ) : String';
16666:   Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
16667:     SmartWebsiteRecognition:Boolean):TElementsType;
16668:   Function DERExecute1(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
16669:     RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
16670:     SmartWebsiteRecognition:Boolean):TElementsType;
16671:   Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition : Boolean;
16672:     aElementsType : TElementsType ) : String';
16673:   Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
16674:     Boolean; var RsltDERStr : DERString; var RsltElementType : TElementsType );';
16675: end;
16676:
16677: procedure SIRегистer_cyImage(CL: TPSPascalCompiler);
16678: begin
16679:   pRGBQuadArray', '^TRGBQuadArray // will not work';
16680:   Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer';

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16676: Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16677: Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16678: Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16679: Procedure BitmapSetPixelsContrast( Bmp : TBitmap; Incpixels : Integer; RefreshBmp : Boolean)');
16680: Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean)');
16681: Procedure BitmapModifyRGB(Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool);
16682: Procedure BitmapReplaceColor(Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean)');
16683: Procedure BitmapReplaceColor1(Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
PercentRange2Blue:Double;SingleDestinationColor : Boolean;RefreshBmp:Bool;');
16684: Procedure BitmapReplaceColors(Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
SingleDestinationColor, RefreshBmp : Boolean)');
16685: Procedure BitmapResize(SourceBmp TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean)');
16686: Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor)');
16687: Procedure BitmapBlur(SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent:Integer;RefreshBmp:Bool;
16688: Procedure GraphicMirror(Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal,Vertical:Bool;
16689: Procedure GraphicMirror1(Source:TGraphic;Destination:TBitmap;Horizontal:Boolean;Vertical:Boolean;');
16690: Function BitmapCreate(BmpWidth:Integer;BmpHeight:Integer;BgColor:TColor;PixelFormat:TPixelFormat):TBitmap;
16691: Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word)');
16692: Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String)');
16693: end;
16694:
16695: procedure SIRegister_WaveUtils(CL: TPPSPascalCompiler);
16696: begin
16697:   TMS2StrFormat', '( msHMSh, msHMS, msMsh, msMS, msSh, msS, msAh,msA )');
16698:   TPCMChannel', '( cMono, cStereo )');
16699:   TPCMSamplesPerSec', '( ss8000Hz, ss11025Hz, ss22050Hz, ss44100Hz, ss48000Hz )');
16700:   TPCMBitsPerSample', '( bs8Bit, bs16Bit )');
16701:   TPCMFormat', '( nonePCM, Mono8Bit8000Hz, Stereo8bit8000Hz, Mono1b'
16702:     +'6bit8000Hz, Stereo16bit8000Hz, Mono8bit11025Hz, Stereo8bit11025Hz, Mono16b'
16703:     +'it11025Hz, Stereo16bit11025Hz, Mono8bit22050Hz, Stereo8bit22050Hz, Mono16b'
16704:     +'it22050Hz, Stereo16bit22050Hz, Mono8bit44100Hz, Stereo8bit44100Hz, Mono16b'
16705:     +'it44100Hz, Stereo16bit44100Hz, Mono8bit48000Hz, Stereo8bit48000Hz, Mono16b'
16706:     +'it48000Hz, Stereo16bit48000Hz )');
16707:   PWaveFormatEx', 'record wFormatTag : word; nChannels: word; nSamplesPerSec: DWORD; '
16708:     +'nAvgBytesPerSec: DWORD; nBlockAlign: Word; wBitsPerSample: Word; ecbSiz: Word; end');
16709:   tWaveFormatEx', 'PWaveFormatEx');
16710:   HMMIO', 'Integer');
16711:   TWaveDeviceFormats', 'set of TPCMFormat');
16712:   TWaveOutDeviceSupport', '( dsVolume, dsStereoVolume, dsPitch, ds'
16713:     +'PlaybackRate, dsPosition, dsAsynchronize, dsDirectSound )');
16714:   CL.AddTypeS('TWaveOutDeviceSupports', 'set of TWaveOutDeviceSupport');
16715:   TWaveOutOption', '( woSetVolume, woSetPitch, woSetPlaybackRate )');
16716:   TWaveOutOptions', 'set of TWaveOutOption');
16717:   TStreamOwnership2', '( soReference, soOwned )');
16718:   TWaveStreamState', '( wsReady, wssReading, wssWriting, wssWritingEx )');
16719: // PRawWave', '^TRawWave // will not work');
16720:   TRawWave', 'record pData : TObject; dwSize : DWORD; end');
16721:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioError');
16722:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioSysError');
16723:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioInvalidOperation');
16724:   TWaveAudioEvent', 'Procedure ( Sender : TObject)');
16725:   TWaveAudioGetFormatEvent', 'Procedure ( Sender : TObject; var pW'
16726:     +'aveFormat : PWaveFormatEx; var FreeIt : Boolean)');
16727:   TWaveAudioGetDataEvent', 'Function ( Sender : TObject; const Buf'
16728:     +'fer : TObject; BufferSize : DWORD; var NumLoops : DWORD) : DWORD');
16729:   TWaveAudioGetDataPtrEvent', 'Function ( Sender : TObject; var Bu'
16730:     +'ffer : TObject; var NumLoops : DWORD; var FreeIt : Boolean) : DWORD');
16731:   TWaveAudioDataReadyEvent', 'Procedure ( Sender : TObject; const '
16732:     +'Buffer : TObject; BufferSize : DWORD; var FreeIt : Boolean)');
16733:   TWaveAudioLevelEvent', 'Procedure ( Sender : TObject; Level : Integer)');
16734:   TWaveAudioFilterEvent', 'Procedure ( Sender : TObject; const Buf'
16735:     +'fer : TObject; BufferSize : DWORD)');
16736:   GetWaveAudioInfo(mmIO : HMMIO; var pWaveFormat:PWaveFormatEx; var DataSize, DataOffset : DWORD) :
Boolean');
16737:   CreateWaveAudio( mmIO : HMMIO; const pWaveFormat : PWaveFormatEx; var ckRIFF, ckData : TMMCInfo) :
Boolean');
16738:   CloseWaveAudio( mmIO : HMMIO; var ckRIFF, ckData : TMMCInfo)');
16739:   GetStreamWaveAudioInfo(Stream:TStream; var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD) : Bool;
16740:   CreateStreamWaveAudio(Stream: TStream;const pWaveFormat:PWaveFormatEx; var ckRIFF,
ckData:TMMCInfo):HMMIO');
16741:   OpenStreamWaveAudio( Stream : TStream) : HMMIO';
16742:   CalcWaveBufferSize( const pWaveFormat : PWaveFormatEx; Duration : DWORD) : DWORD');
16743:   GetAudioFormat( FormatTag : Word) : String');
16744:   GetWaveAudioFormat( const pWaveFormat : PWaveFormatEx) : String');
16745:   GetWaveAudioLength( const pWaveFormat : PWaveFormatEx; DataSize : DWORD) : DWORD');
16746:   GetWaveAudioBitRate( const pWaveFormat : PWaveFormatEx) : DWORD');
16747:   GetWaveAudioPeakLevel( const Data : TObject; DataSize : DWORD; const pWaveFormat : PWaveFormatEx) :
Integer');
16748:   InvertWaveAudio( const Data : TObject; DataSize : DWORD; const pWaveFormat : PWaveFormatEx) : Boolean');
16749:   SilenceWaveAudio( const Data : TObject; DataSize : DWORD; const pWaveFormat : PWaveFormatEx) : Boolean');
16750:   ChangeWaveAudioVolume(const Data:TObject; DataSize:DWORD; const
pWaveFormat:PWaveFormatEx;Percent:Int):Bool;
16751:   MixWaveAudio( const RawWaves : TRawWave; Count : Integer; const pWaveFormat : PWaveFormatEx; Buffer :
TObject; BufferSize : DWORD) : Boolean');
16752:   ConvertWaveFormat( const srcFormat : PWaveFormatEx; srcData : TObject; srcDataSize : DWORD; const
dstFormat : PWaveFormatEx; var dstData : TObject; var dstDataSize : DWORD) : Boolean');
16753:   SetPCMFormat(const pWaveFormat: PWaveFormatEx; Channels : TPCMChannel; SamplesPerSec :
TPCMSamplesPerSec; BitsPerSample : TPCMBitsPerSample)');

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16754: Procedure SetPCMFormatS( const pWaveFormat : PWaveFormatEx; PCMFormat : TPCMFormat' );
16755: GetPCMFormat( const pWaveFormat : PWaveFormatEx ) : TPCMFormat' );
16756: GetWaveDataPositionOffset( const pWaveFormat : PWaveFormatEx; Position : DWORD ) : DWORD' );
16757: MS2str( Milliseconds : DWORD; Fmt : TMS2StrFormat ) : String' );
16758: WaitForSyncObject( SyncObject : THandle; Timeout : DWORD ) : DWORD' );
16759: //mmioStreamProc( lpmmIOInfo : PMMIOInfo; uMsg, lParam1, lParam2 : DWORD ) : LRESULT' );
16760: end;
16761:
16762:
16763:
16764: {A simple Oscilloscope using TWaveIn class.
16765: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
16766: uses
16767:   Forms,
16768:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
16769:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
16770:   uColorFunctions in 'uColorFunctions.pas',
16771:   AMixer in 'AMixer.pas',
16772:   uSettings in 'uSettings.pas',
16773:   UWavein4 in 'UWavein4.pas',
16774:   U_Spectrum4 in 'U_Spectrum4.pas' {Form2},
16775:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
16776:
16777:
16778: Functions_max hex in the box maxbox
16779: functionslist.txt
16780: FunctionsList1 3.9.9.86/88/91/92/94/95/96
16781:
16782: ****
16783: Procedure
16784: PROCEDURE SIZE 7507 7401 6792 6310 5971 4438 3797 3600 7881
16785: Procedure *****Now the Procedure list*****
16786: Procedure ( ACol, ARow : Integer; Items : TStrings )
16787: Procedure ( Agg : TAggregate )
16788: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus )
16789: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage )
16790: Procedure ( ASender : TComponent; var AMsg : TIdMessage )
16791: Procedure ( ASender : TObject; const ABytes : Integer )
16792: Procedure ( ASender : TObject; VStream : TStream )
16793: Procedure ( AThread : TIdThread )
16794: Procedure ( AWebModule : TComponent )
16795: Procedure ( Column : TColumn )
16796: Procedure ( const AUsername : String; const APassword : String; AAuthenticationResult : Boolean )
16797: Procedure ( const iStart : integer; const sText : string )
16798: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean )
16799: Procedure ( Database : TDatabase; LoginParams : TStrings )
16800: Procedure ( DataSet:TCustomClientDataSet; E:EReconcileError; UpdateKind:TUpdateKind; var Action:TReconcileAction )
16801: Procedure ( DATASET : TDATASET )
16802: Procedure ( DataSet:TDataSet; E:EDatabaseError; UpdateKind:TUpdateKind; var UpdateAction: TUpdateAction )
16803: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION )
16804: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction )
16805: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN )
16806: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer )
16807: Procedure ( Done : Integer )
16808: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection )
16809: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean )
16810: Procedure
  ( HeaderControl:TCustomHeaderControl;Section:THeaderSection;Width:Integer;State:TSectionTrackState )
16811: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection )
16812: Procedure ( HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean )
16813: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState )
16814: Procedure ( Sender : TCustomListView; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean )
16815: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean )
16816: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState )
16817: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean )
16818: Procedure ( SENDER : TFIELD; const TEXT : String )
16819: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : Boolean )
16820: Procedure ( Sender : TIdTelnet; const Buffer : String )
16821: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand )
16822: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : Boolean )
16823: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE )
16824: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : Integer )
16825: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string )
16826: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState )
16827: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean )
16828: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string )
16829: Procedure ( Sender : TObject; Button : TMPBtnType )
16830: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean )
16831: Procedure ( Sender : TObject; Button : TUDBtnType )
16832: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean )
16833: Procedure ( Sender : TObject; ClientSocket : TServerClientWinSocket; var SocketThread : TServerClientThread )
16834: Procedure ( Sender : TObject; Column : TListColumn )
16835: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint )
16836: Procedure ( Sender : TObject; Connecting : Boolean )
16837: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var DoneDraw:Bool )
16838: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState )
16839: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState )

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16840: Procedure ( Sender : TObject; const UserString:string; var DateAndTime:TDateTime; var AllowChange:Boolean)
16841: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
16842: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
16843: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
16844: Procedure ( Sender : TObject; Index : LongInt)
16845: Procedure ( Sender : TObject; Item : TListItem)
16846: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
16847: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
16848: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
16849: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
16850: Procedure ( Sender : TObject; Item : TListItem; var S : string)
16851: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
16852: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
16853: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
16854: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
16855: Procedure ( Sender : TObject; Node : TTreenode)
16856: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
16857: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
16858: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
16859: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
16860: Procedure ( Sender : TObject; Node : TTreenode; var S : string)
16861: Procedure ( Sender : TObject; Node1, Node2 : TTreenode; Data : Integer; var Compare : Integer)
16862: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
16863: Procedure ( Sender : TObject; Rect : TRect)
16864: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
16865: Procedure ( Sender : TObject; Shift : TShiftState; X, Y : Integer; Orient : TPageScrollerOrientation; var Delta : Int)
16866: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
16867: Procedure ( Sender : TObject; Socket : TCustomWinSocket; ErrorEvent : TErrorEvent; var ErrorCode : Integer)
16868: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
16869: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
16870: Procedure ( SENDER : TOBJECT; SOURCE : TMENUTITEM; REBUILD : BOOLEAN)
16871: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
16872: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
16873: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
16874: Procedure ( Sender : TObject; Thread : TServerClientThread)
16875: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
16876: Procedure ( Sender : TObject; Username, Password : string)
16877: Procedure ( Sender : TObject; var AllowChange : Boolean)
16878: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction : TUpDownDirection)
16879: Procedure ( Sender : TObject; var Caption : string; var Alignment : THMLCaptionAlignment)
16880: Procedure ( Sender : TObject; var Continue : Boolean)
16881: Procedure ( Sender : TObject; var dest : string; var NumRedirect : Int; var Handled : bool; var VMethod : TIdHTTPMethod)
16882: Procedure ( Sender : TObject; var Username : string)
16883: Procedure ( Sender : TObject; Wnd : HWND)
16884: Procedure ( Sender : TToolbar; Button : TToolbutton)
16885: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
16886: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
16887: Procedure ( Sender : TToolbar; Index : Integer; var Allow : Boolean)
16888: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolbutton)
16889: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
16890: Procedure ( StatusBar : TSstatusBar; Panel : TSstatusPanel; const Rect : TRect)
16891: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var BindAllFields : Boolean; var TableName : WideString)
16892: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
16893: procedure ( Sender : TObject)
16894: procedure ( Sender : TObject; var Done : Boolean)
16895: procedure ( Sender : TObject; var Key : Word; Shift : TShiftState);
16896: procedure _T(Name : tbtString; v : Variant);
16897: Procedure AbandonSignalHandler( RtlSigNum : Integer)
16898: Procedure Abort
16899: Procedure About1Click( Sender : TObject)
16900: Procedure Accept( Socket : TSocket)
16901: Procedure AESSymmetricExecute( const plaintext, ciphertext, password : string)
16902: Procedure AESEncryptFile( const plaintext, ciphertext, password : string)
16903: Procedure AESDecryptFile( const replaintext, ciphertext, password : string)
16904: Procedure AESEncryptString( const plaintext : string; var ciphertext : string; password : string)
16905: Procedure AESDecryptString( var plaintext : string; const ciphertext : string; password : string)
16906: Procedure Add( Addend1, Addend2 : TMyBigInt)
16907: Procedure ADD( const AKEY, AVALUE : VARIANT)
16908: Procedure Add( const Key : string; Value : Integer)
16909: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
16910: Procedure ADD( FIELD : TFIELD)
16911: Procedure ADD( ITEM : TMENUITEM)
16912: Procedure ADD( POPUP : TPOPUPMENU)
16913: Procedure AddCharacters( xCharacters : TCharSet)
16914: Procedure AddDriver( const Name : string; List : TStrings)
16915: Procedure AddImages( Value : TCustomImageList)
16916: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
16917: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
16918: Procedure AddLoader( Loader : TBitmapLoader)
16919: Procedure ADDPARAM( VALUE : TPARAM)
16920: Procedure AddPassword( const Password : string)
16921: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
16922: Procedure AddState( oState : TniRegularExpressionState)
16923: Procedure AddStrings( Strings : TStrings);
16924: procedure AddStrings( Strings : TStrings);
16925: Procedure AddString1( Strings : TWideStrings);
16926: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
16927: Procedure AddToRecentDocs( const Filename : string)
16928: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)

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16929: Procedure AllFunctionsList1Click( Sender : TObject )
16930: procedure AllObjectsList1Click(Sender: TObject);
16931: Procedure Allocate( AAllocateBytes : Integer)
16932: procedure AllResourceList1Click(Sender: TObject);
16933: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
16934: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
16935: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
16936: Procedure AnsiFree( var s : AnsiString)
16937: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
16938: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
16939: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
16940: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
16941: Procedure AntiFreeze;
16942: Procedure APPEND
16943: Procedure Append( const S : WideString)
16944: procedure Append(S: string);
16945: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
16946: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
16947: Procedure AppendChunk( Val : OleVariant)
16948: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
16949: Procedure AppendStr( var Dest : string; S : string)
16950: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALen : Integer)
16951: Procedure ApplyRange
16952: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
16953: Procedure Arrange( Code : TListArrangement)
16954: procedure Assert(expr : Boolean; const msg: string);
16955: procedure Assert2(expr : Boolean; const msg: string);
16956: Procedure Assign( AList : TCustomBucketList)
16957: Procedure Assign( Other : TObject)
16958: Procedure Assign( Source : TDragObject)
16959: Procedure Assign( Source : TPersistent)
16960: Procedure Assign(Source: TPersistent)
16961: procedure Assign2(mystring, mypath: string);
16962: Procedure AssignCurValues( Source : TDataSet);
16963: Procedure AssignCurValues1( const CurValues : Variant);
16964: Procedure ASSIGNFIELD( FIELD : TFIELD)
16965: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
16966: Procedure AssignFile(var F: Text; FileName: string)
16967: procedure AssignFile(var F: TextFile; FileName: string)
16968: procedure AssignFileRead(var mystring, myfilename: string);
16969: procedure AssignFileWrite(mystring, myfilename: string);
16970: Procedure AssignTo( Other : TObject)
16971: Procedure AssignValues( Value : TParameters)
16972: Procedure ASSIGNVALUES( VALUE : TPARAMS)
16973: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
16974: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
16975: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
16976: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
16977: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
16978: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
16979: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
16980: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
16981: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
16982: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
16983: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
16984: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
16985: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
16986: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
16987: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
16988: procedure Beep
16989: Procedure BeepOk
16990: Procedure BeepQuestion
16991: Procedure BeepHand
16992: Procedure BeepExclamation
16993: Procedure BeepAsterisk
16994: Procedure BeepInformation
16995: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
16996: Procedure BeginLayout
16997: Procedure BeginTimer( const Delay, Resolution : Cardinal)
16998: Procedure BeginUpdate
16999: procedure BeginUpdate;
17000: procedure BigScreen1Click(Sender: TObject);
17001: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
17002: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
17003: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
17004: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
17005: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
17006: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
17007: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
17008: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
17009: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
17010: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
17011: Procedure BreakPointMenuClick( Sender : TObject)
17012: procedure BRINGTOFRONT
17013: procedure BringToFront;
17014: Procedure btnBackClick( Sender : TObject)
17015: Procedure btnBrowseClick( Sender : TObject)
17016: Procedure BtnClick( Index : TNavigateBtn)
17017: Procedure btnLargeIconsClick( Sender : TObject)

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17018: Procedure BuildAndSendRequest( AURI : TIdURI )
17019: Procedure BuildCache
17020: Procedure BurnMemory( var Buff, BuffLen : integer )
17021: Procedure BurnMemoryStream( Destrukt : TMemoryStream )
17022: Procedure CalculateFirstSet
17023: Procedure Cancel
17024: procedure CancelDrag;
17025: Procedure CancelEdit
17026: procedure CANCELHINT
17027: Procedure CancelRange
17028: Procedure CancelUpdates
17029: Procedure CancelWriteBuffer
17030: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AISRFCMessage:Bool)
17031: Procedure Capture2(ADest : TStrings; const ADelim : string; const AISRFCMessage : Boolean);
17032: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AISRFCMessage:Bool)
17033: procedure CaptureScreenFormat(vname: string; vextension: string);
17034: procedure CaptureScreenPNG(vname: string);
17035: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
17036: procedure CASCADE
17037: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
17038: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer );
17039: Procedure cbPathClick( Sender : TObject )
17040: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState )
17041: Procedure cedbugAfterExecute( Sender : TPSScript )
17042: Procedure cedbugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal )
17043: Procedure cedbugCompile( Sender : TPSScript )
17044: Procedure cedbugExecute( Sender : TPSScript )
17045: Procedure cedbugIdle( Sender : TObject )
17046: Procedure cedbugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal )
17047: Procedure CenterHeight( const pc, pcParent : TControl )
17048: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
17049: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
17050: Procedure Change
17051: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
17052: Procedure Changed
17053: Procedure ChangeDir( const ADirName : string )
17054: Procedure ChangeDirUp
17055: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState )
17056: Procedure ChangeLevelBy( Value : TChangeRange )
17057: Procedure ChDir(const s: string)
17058: Procedure Check(Status: Integer)
17059: Procedure CheckCommonControl( CC : Integer )
17060: Procedure CHECKFIELDNAME( const FIELDNAME : String )
17061: Procedure CHECKFIELDNAMES( const FIELDNAMES : String )
17062: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
17063: Procedure CheckGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean )
17064: Procedure CheckToken( T : Char )
17065: procedure CheckToken(t:char)
17066: Procedure CheckTokenSymbol( const S : string )
17067: procedure CheckTokenSymbol(s:string)
17068: Procedure CheckToolMenuDropdown( ToolButton : TToolButton )
17069: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17070: Procedure CIED65ToCIED50( var X, Y, Z : Extended )
17071: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal );
17072: procedure CipherFile1Click(Sender: TObject);
17073: Procedure Clear;
17074: Procedure Clear1Click( Sender : TObject )
17075: Procedure ClearColor( Color : TColor )
17076: Procedure CLEARITEM( AITEM : TMENUITEM )
17077: Procedure ClearMapping
17078: Procedure ClearSelection( KeepPrimary : Boolean )
17079: Procedure ClearWriteBuffer
17080: Procedure Click
17081: Procedure Close
17082: Procedure Close1Click( Sender : TObject )
17083: Procedure CloseDatabase( Database : TDatabase )
17084: Procedure CloseDataSets
17085: Procedure CloseDialog
17086: Procedure CloseFile(var F: Text );
17087: Procedure Closure
17088: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17089: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17090: Procedure CodeCompletionList1Click( Sender : TObject )
17091: Procedure ColEnter
17092: Procedure Collapse
17093: Procedure Collapse( Recurse : Boolean )
17094: Procedure ColorRGBtoHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word )
17095: Procedure CommaSeparatedToStringList( Alist : TStrings; const Value : string )
17096: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction )
17097: Procedure Compile1Click( Sender : TObject )
17098: procedure ComponentCount1Click(Sender: TObject);
17099: Procedure Compress(azipfolder, azipfile: string)
17100: Procedure DeCompress(azipfolder, azipfile: string)
17101: Procedure XZip(azipfolder, azipfile: string)
17102: Procedure XUnZip(azipfolder, azipfile: string)
17103: Procedure Connect( const ATimeout : Integer )
17104: Procedure Connect( Socket : TSocket )
17105: procedure Console1Click(Sender: TObject);
17106: Procedure Continue

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17107: Procedure ContinueCount( var Counter : TJclCounter)
17108: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
17109: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
17110: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
17111: Procedure ConvertImage(vsource, vdestination: string);
17112: // Ex. ConvertImage(Exepath+'my233.bmp',Exepath+'mypng111.png')
17113: Procedure ConvertBitmap(vsource, vdestination: string);
17114: Procedure ConvertToGray(Cnv: TCanvas);
17115: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
17116: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
17117: Procedure Copyl( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
17118: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
17119: Procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASourceIndex : Integer; var VDest : Word)
17120: Procedure CopyFrom( mbCopy : TMyBInt)
17121: Procedure CopyMemoryStream( Source, Destination : TMemoryStream)
17122: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
17123: Procedure CopyTidByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array
of Byte; const ADestIndex : Integer; const ALength : Integer)
17124: Procedure CopyTidBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const
ALen:Int)
17125: Procedure CopyTidCardinal( const ASource : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer)
17126: Procedure CopyTidInt64( const ASource : Int64; var VDest : TIdBytes; const ADestIndex : Integer)
17127: Procedure CopyTidIPv6Address(const ASource:TIdIPv6Address; var VDest : TIdBytes; const ADestIndex : Integer)
17128: Procedure CopyTidLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex : Integer)
17129: Procedure CopyTidNetworkLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex:Integer)
17130: Procedure CopyTidNetworkWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
17131: Procedure CopyTidString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
17132: Procedure CopyTidWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
17133: Procedure CopyToClipboard
17134: Procedure CountParts
17135: Procedure CreateDataSet
17136: Procedure CreateEmptyFile( const FileName : string)
17137: Procedure CreateFileFromString( const FileName, Data : string)
17138: Procedure CreateFromDelta( Source : TPacketDataSet)
17139: procedure CREATEHANDLE
17140: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
17141: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
17142: Procedure CreateTable
17143: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
17144: procedure CSyntax1Click(Sender: TObject)
17145: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
17146: Procedure CURSORPOSCHANGED
17147: procedure CutFirstDirectory(var S: String)
17148: Procedure DataBaseError(const Message: string)
17149: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);
17150: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
17151: Procedure DateToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
17152: procedure DateToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
17153: Procedure DBIError(errorCode: Integer)
17154: Procedure DebugOutput( const AText : string)
17155: Procedure DebugRun1Click( Sender : TObject)
17156: procedure Dec;
17157: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
17158: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
17159: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
17160: Procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word)
17161: Procedure DecodeDateTime(const AValue:TDateTime;out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
17162: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
17163: Procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
17164: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
17165: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
17166: Procedure Decompile1Click( Sender : TObject)
17167: Procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
17168: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
17169: Procedure DeferLayout
17170: Procedure deffileread
17171: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL;REMOVING:BOOLEAN)
17172: Procedure DelayMicroseconds( const MicroSeconds : Integer)
17173: Procedure Delete
17174: Procedure Delete( const AFilename : string)
17175: Procedure Delete( const Index : Integer)
17176: Procedure DELETE( INDEX : INTEGER)
17177: Procedure Delete( Index : LongInt)
17178: Procedure Delete( Node : TTreeNode)
17179: procedure Delete(var s: AnyString; ifrom, ictount: Longint);
17180: Procedure DeleteAlias( const Name : string)
17181: Procedure DeleteDriver( const Name : string)
17182: Procedure DeleteIndex( const Name : string)
17183: Procedure DeleteKey( const Section, Ident : String)
17184: Procedure DeleteRecords
17185: Procedure DeleteRecords( AffectRecords : TAffectRecords)
17186: Procedure DeleteString( var pStr : String; const pDelStr : string)
17187: Procedure DeleteTable
17188: procedure DelphiSite1Click(Sender: TObject);
17189: Procedure Deselect
17190: Procedure Deselect( Node : TTreeNode)
17191: procedure DestroyComponents
17192: Procedure DestroyHandle
17193: Procedure Diff( var X : array of Double)

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17194: procedure Diff(var X: array of Double);
17195: procedure DISABLEALIGN
17196: Procedure DisableConstraints
17197: Procedure Disconnect
17198: Procedure Disconnect( Socket : TSocket )
17199: Procedure Dispose
17200: procedure Dispose(P: PChar)
17201: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
17202: Procedure DoKey( Key : TDBCtrlGridKey)
17203: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17204: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17205: Procedure Dormant
17206: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd );
17207: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
17208: Procedure DoubleToComp( Value : Double; var Result : Comp)
17209: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
17210: procedure Draw(X, Y: Integer; Graphic: TGraphic);
17211: Procedure Draw(Canvas:TCanvas; X,Y,
Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
17212: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17213: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
17214: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17215: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
17216: procedure DrawFocusRect(const Rect: TRect);
17217: Procedure DrawHBITToTBitmap( HDIB : THandle; Bitmap : TBitmap)
17218: Procedure DRAWMENUEITEM( MENUITEM : TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17219: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled:Boolean);
17220: Procedure DrawOverlay1(Canvas:TCanvas;X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
17221: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
17222: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
17223: Procedure DropConnections
17224: Procedure DropDown
17225: Procedure DumpDescription( oStrings : TStrings)
17226: Procedure DumpStateTable( oStrings : TStrings)
17227: Procedure EDIT
17228: Procedure EditButtonClick
17229: Procedure EditFont1Click( Sender : TObject)
17230: procedure Ellipse(X1, Y1, X2, Y2: Integer);
17231: Procedure Ellipse1( const Rect : TRect);
17232: Procedure EMMS
17233: Procedure Encode( ADest : TStream)
17234: procedure ENDDRAG(DROP:BOOLEAN)
17235: Procedure EndEdit( Cancel : Boolean)
17236: Procedure EndTimer
17237: Procedure EndUpdate
17238: Procedure EraseSection( const Section : string)
17239: Procedure Error( const Ident : string)
17240: procedure Error(Ident:Integer)
17241: Procedure ErrorFmt( const Ident : string; const Args : array of const)
17242: Procedure ErrorStr( const Message : string)
17243: procedure ErrorStr(Message:String)
17244: Procedure Exchange( Index1, Index2 : Integer)
17245: procedure Exchange(Index1, Index2: Integer);
17246: Procedure Exec( FileName, Parameters, Directory : string)
17247: Procedure ExecProc
17248: Procedure ExecSQL( UpdateKind : TUpdateKind)
17249: Procedure Execute
17250: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
17251: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
17252: Procedure ExecuteCommand(executeFile, paramstring: string)
17253: Procedure ExecuteShell(executeFile, paramstring: string)
17254: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
17255: Procedure ExitThread(ExitCode: Integer); stdcall;
17256: Procedure ExitProcess(ExitCode: Integer); stdcall;
17257: Procedure Expand( AUserName : String; AResults : TStrings)
17258: Procedure Expand( Recurse : Boolean)
17259: Procedure ExportClipboard1Click( Sender : TObject)
17260: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
17261: Procedure ExtractContentFields( Strings : TStrings)
17262: Procedure ExtractCookieFields( Strings : TStrings)
17263: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
17264: Procedure ExtractHeaderFields(Separ,
WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)
17265: Procedure ExtractHTTPFields(Separators,WhiteSpace:
TSysCharSet;Content:PChar;Strings:TStrings;StripQuotes:Bool)
17266: Procedure ExtractQueryFields( Strings : TStrings)
17267: Procedure FastDegToGrad
17268: Procedure FastDegToRad
17269: Procedure FastGradToDeg
17270: Procedure FastGradToRad
17271: Procedure FastRadToDeg
17272: Procedure FastRadToGrad
17273: Procedure FileClose( Handle : Integer)
17274: Procedure FileClose(handle: integer)
17275: procedure FilesFromWildcard( Dir,Mask:string;var Files:TStringList;Subdirs,ShowDirs,Multitasking:Bool)
17276: Procedure Filestructure( AStructure : TidFTPDataStructure)
17277: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
17278: Procedure FillBytes( var VBytes : TidBytes; const ACount : Integer; const AValue : Byte)

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17279: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
17280: Procedure FillChar2(var X: PChar ; count: integer; value: char)
17281: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
17282: Procedure FillIPList
17283: procedure FillRect(const Rect: TRect);
17284: Procedure FillITStrings( AStrings : TStrings)
17285: Procedure FilterOnBookmarks( Bookmarks : array of const)
17286: procedure FinalizePackage(Module: HMODULE)
17287: procedure FindClose;
17288: procedure FindClose2(var F: TSearchRec)
17289: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent );
17290: Procedure FindMatches1( const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent );
17291: Procedure FindNearest( const KeyValues : array of const)
17292: Procedure FinishContext
17293: Procedure FIRST
17294: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
17295: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int );
17296: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
17297: Procedure FlushSchemaCache( const TableName : string)
17298: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
17299: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
17300: Procedure Form1Close( Sender : TObject; var Action : TCloseAction)
17301: Procedure FormActivate( Sender : TObject)
17302: procedure FormatLn(const format: String; const args: array of const); //alias
17303: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17304: Procedure FormCreate( Sender : TObject)
17305: Procedure FormDestroy( Sender : TObject)
17306: Procedure FormKeyPress( Sender : TObject; var Key : Char)
17307: procedure FormOutput1Click(Sender : TObject);
17308: Procedure FormToHtml( Form : TForm; Path : string)
17309: procedure FrameRect(const Rect: TRect);
17310: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
17311: Procedure NotebookHandlesNeeded( Notebook : TNNotebook)
17312: Procedure Free( Buffer : TRecordBuffer)
17313: Procedure Free( Buffer : TValueBuffer)
17314: Procedure Free;
17315: Procedure FreeAndNil(var Obj:TObject)
17316: Procedure FreeImage
17317: procedure FreeMem(P: PChar; Size: Integer)
17318: Procedure FreeTreeData( Tree : TUpdateTree)
17319: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
17320: Procedure FullCollapse
17321: Procedure FullExpand
17322: Procedure GenerateDPB(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
17323: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
17324: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
17325: Procedure Get1( AURL : string; const AResponseContent : TStream);
17326: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
17327: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
17328: Procedure GetAliasNames( List : TStrings)
17329: Procedure GetAliasParams( const AliasName : string; List : TStrings)
17330: Procedure GetApplicationsRunning( Strings : TStrings)
17331: Procedure getBox(aURL, extension: string);
17332: Procedure GetCommandTypes( List : TWideStrings)
17333: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
17334: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
17335: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
17336: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
17337: Procedure GetDatabaseNames( List : TStrings)
17338: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
17339: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
17340: Procedure GetDir(d: byte; var s: string)
17341: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
17342: Procedure GetDriverNames( List : TStrings)
17343: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
17344: Procedure GetDriverParams( const DriverName : string; List : TStrings)
17345: Procedure GetEmails1Click( Sender : TObject)
17346: Procedure getEnvironmentInfo;
17347: Function getEnvironmentString: string;
17348: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
17349: Procedure GetFieldNames( const TableName : string; List : TStrings)
17350: Procedure GetFieldNames( const TableName : string; List : TStrings);
17351: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
17352: Procedure GETFIELDNAMES( LIST : TSTRINGS)
17353: Procedure GetFieldNames1( const TableName : string; List : TStrings);
17354: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
17355: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
17356: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
17357: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
17358: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
17359: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
17360: Procedure GetFormatSettings
17361: Procedure GetFromDIB( var DIB : TBitmapInfo)
17362: Procedure GetFromHDI( HDIB : HBitmap)
17363: Procedure GetIcon( Index : Integer; Image : TIcon);
17364: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
17365: Procedure GetIndexInfo( IndexName : string)
17366: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
17367: Procedure GetIndexNames( List : TStrings)

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17368: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
17369: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
17370: Procedure GetIndexNames4( const TableName : string; List : TStrings);
17371: Procedure GetInternalResponse
17372: Procedure GETITEMNAMES( LIST : TSTRINGS)
17373: procedure GetMem(P: PChar; Size: Integer)
17374: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
17375: procedure GetPackageDescription(ModuleName: PChar): string
17376: Procedure GetPackageNames( List : TStrings);
17377: Procedure GetPackageNames1( List : TWideStrings);
17378: Procedure GetParamList( List : TList; const ParamNames : WideString)
17379: Procedure GetProcedureNames( List : TStrings);
17380: Procedure GetProcedureNames( List : TWideStrings);
17381: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
17382: Procedure GetProcedureNames1( List : TStrings);
17383: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
17384: Procedure GetProcedureNames3( List : TWideStrings);
17385: Procedure GetProcedureNames4( const PackageName : Widestring; List : TWideStrings);
17386: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
17387: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
17388: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
17389: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : Widestring; List : TList);
17390: Procedure GetProviderNames( Names : TWideStrings);
17391: Procedure GetProviderNames( Proc : TGetStrProc)
17392: Procedure GetProviderNames1( Names : TStrings);
17393: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
17394: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;apath:string); //no open image
17395: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const Data:string;aformat:string):TLinearBitmap;
17396: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
17397: Procedure GetSchemaNames( List : TStrings);
17398: Procedure GetSchemaNames1( List : TWideStrings);
17399: Procedure getScriptandRunAsk;
17400: Procedure getScriptandRun(ascript: string);
17401: Procedure getScript(ascript: string); //alias
17402: Procedure getWebScript(ascript: string); //alias
17403: Procedure GetSessionNames( List : TStrings)
17404: Procedure GetStoredProcedureNames( const DatabaseName : string; List : TStrings)
17405: Procedure GetStrings( List : TStrings)
17406: Procedure GetSystemTime; stdcall;
17407: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions, SystemTables:Boolean;List:TStrings)
17408: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
17409: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
17410: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
17411: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
17412: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
17413: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
17414: Procedure GetTransitionsOn( cChar: char; oStateList : TList)
17415: Procedure GetVisibleWindows( List : TStrings)
17416: Procedure GoBegin
17417: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
17418: Procedure GotoCurrent( Table : TTable)
17419: procedure GotoEnd1Click(Sender: TObject);
17420: Procedure GotoNearest
17421: Procedure GradientFillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const Direction:TGradientDirection)
17422: Procedure HandleException( E : Exception; var Handled : Boolean)
17423: procedure HANDLEMESSAGE
17424: procedure HandleNeeded;
17425: Procedure Head( AURL : string)
17426: Procedure Help( var AHelpContents : TStringList; ACommand : String)
17427: Procedure HexToBinary( Stream : TStream)
17428: procedure HexToBinary(Stream:TStream)
17429: Procedure HideDragImage
17430: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
17431: Procedure HideTraybar
17432: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
17433: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); { //3 seconds}
17434: Procedure HookOSExceptions
17435: Procedure HookSignal( RtlSigNum : Integer)
17436: Procedure HSLToRGB( const H, S, L : Single; out R, G, B : Single);
17437: Procedure HTMLSyntax1Click( Sender : TObject)
17438: Procedure IFPS3ClassesPluginInlCompImport( Sender : TObject; x : TPSPascalCompiler)
17439: Procedure IFPS3ClassesPluginInlExecImport( Sender : TObject; Exec : TPSEexec; x : TPSRuntimeClassImporter)
17440: Procedure ImportfromClipboard1Click( Sender : TObject)
17441: Procedure ImportfromClipboard2Click( Sender : TObject)
17442: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
17443: procedure Incb(var x: byte);
17444: Procedure IncludelClick( Sender : TObject)
17445: Procedure IncludeOFF; //preprocessing
17446: Procedure IncludeON;
17447: procedure Info1Click(Sender: TObject);
17448: Procedure InitAltRecBuffers( CheckModified : Boolean)
17449: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
17450: Procedure InitContext(WebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse)
17451: Procedure InitData( ASource : TDataSet)
17452: Procedure InitDelta( ADelta : TPacketDataSet);
17453: Procedure InitDelta1( const ADelta : OleVariant);
17454: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)

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17455: Procedure Initialize
17456: procedure InitializePackage(Module: HMODULE)
17457: Procedure INITIACTION
17458: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
17459: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
17460: Procedure InitModule( AModule : TComponent)
17461: Procedure InitStdConvs
17462: Procedure InitTreeData( Tree : TUpdateTree)
17463: Procedure INSERT
17464: Procedure Insert( Index : Integer; AClass : TClass)
17465: Procedure Insert( Index : Integer; AComponent : TComponent)
17466: Procedure Insert( Index : Integer; AObject : TObject)
17467: Procedure Insert( Index : Integer; const S : WideString)
17468: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
17469: Procedure Insert(Index: Integer; const S: string);
17470: procedure Insert(Index: Integer; S: string);
17471: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
17472: procedure InsertComponent(AComponent:TComponent)
17473: procedure InsertControl(AControl: TControl);
17474: Procedure InsertIcon( Index : Integer; Image : TIcon)
17475: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
17476: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
17477: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
17478: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
17479: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
17480: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
17481: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
17482: Procedure InternalBeforeResolve( Tree : TUpdateTree)
17483: Procedure InvalidateModuleCache
17484: Procedure InvalidateTitles
17485: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
17486: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
17487: Procedure InvalidDateTimeError(const AYear,AMth,ADay,AHour,AMin,ASec,AMilSec:Word;const
  ABaseDate:TDateTime)
17488: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
17489: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
17490: procedure JavaSyntax1Click(Sender : TObject);
17491: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
17492: Procedure KillDataChannel
17493: Procedure Largefont1Click( Sender : TObject)
17494: Procedure LAST
17495: Procedure LaunchCpl( FileName : string)
17496: Procedure Launch( const AFile : string)
17497: Procedure LaunchFile( const AFile : string)
17498: Procedure LetFileList(FileList: TStringlist; apath: string);
17499: Procedure lineToNumber( xmemo : String; met : boolean)
17500: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
  DefaultDraw:Bool)
17501: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
  : TCustDrawState; var DefaultDraw : Boolean)
17502: Procedure ListViewData( Sender : TObject; Item : TListItem)
17503: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
  : TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
17504: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
17505: Procedure ListViewDblClick( Sender : TObject)
17506: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
17507: Procedure ListViewExports(const FileName: string; List: TStrings);
17508: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream)
17509: procedure LoadBytecode1Click(Sender: TObject);
17510: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
17511: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
17512: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
17513: Procedure LoadFromFile( AFileName : string)
17514: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
17515: Procedure LoadFromFile( const FileName : string)
17516: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
17517: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
17518: Procedure LoadFromFile( const FileName : WideString)
17519: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
17520: Procedure LoadFromFile(const AFileName: string)
17521: procedure LoadFromFile(FileName: string);
17522: procedure LoadFromFile(FileName:String)
17523: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
17524: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
17525: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
17526: Procedure LoadFromStream( const Stream : TStream)
17527: Procedure LoadFromStream( S : TStream)
17528: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17529: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17530: Procedure LoadFromStream( Stream : TStream)
17531: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOBTYPE : TBLOBTYPE)
17532: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
17533: procedure LoadFromStream(Stream: TStream);
17534: Procedure LoadFromStream1( Stream : TSeekableStream; const FormatExt : string);
17535: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
17536: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
17537: Procedure LoadLastfile1Click( Sender : TObject)
17538: { LoadIcoToImage loads two icons from resource named NameRes,
17539:   into two image lists ALarge and ASmall}

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17540: Procedure LoadIcoToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
17541: Procedure LoadMemo
17542: Procedure LoadParamsFromIniFile( FFileName : WideString)
17543: Procedure Lock
17544: Procedure Login
17545: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
17546: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
17547: Procedure MakeCaseInsensitive
17548: Procedure MakeDeterministic( var bChanged : boolean)
17549: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
17550: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
17551: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
17552: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
17553: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
17554: Procedure SetRectComplexFormatStr( const S : string)
17555: Procedure SetPolarComplexFormatStr( const S : string)
17556: Procedure AddComplexSoundObjectToList(newf,newp,newa,neww:integer; freqlist: TStrings);
17557: Procedure MakeVisible
17558: Procedure MakeVisible( PartialOK : Boolean)
17559: Procedure ManualClick( Sender : TObject)
17560: Procedure MarkReachable
17561: Procedure maxBox; //shows the exe version data in a win box
17562: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
17563: Procedure Memo1Change( Sender : TObject)
17564: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var Action:TSynReplaceAction)
17565: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
17566: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
17567: procedure Memory1Click(Sender: TObject);
17568: Procedure MERGE( MENU : TMAINMENU)
17569: Procedure MergeChangeLog
17570: procedure MINIMIZE
17571: Procedure MinimizeMaxbox;
17572: Procedure MkDir( const s: string)
17573: Procedure mnuPrintFont1Click( Sender : TObject)
17574: procedure ModalStarted
17575: Procedure Modified
17576: Procedure ModifyAlias( Name : string; List : TStrings)
17577: Procedure ModifyDriver( Name : string; List : TStrings)
17578: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
17579: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
17580: Procedure Move( CurIndex, NewIndex : Integer)
17581: procedure Move(CurIndex, NewIndex: Integer);
17582: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
17583: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
17584: Procedure moveCube( o : TMyLabel)
17585: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
17586: procedure MoveTo(X, Y: Integer);
17587: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
17588: Procedure MovePoint(var x,y:Extended; const angle:Extended);
17589: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
17590: Procedure Multiply1( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
17591: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string ='MAINICON';Flags:DWORD=MB_OK);
17592: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
17593: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
17594: procedure New(P: PChar)
17595: procedure New1Click(Sender: TObject);
17596: procedure NewInstance1Click(Sender: TObject);
17597: Procedure NEXT
17598: Procedure NextMonth
17599: Procedure Noop
17600: Procedure NormalizePath( var APath : string)
17601: procedure ObjectBinaryToText(Input, Output: TStream)
17602: procedure ObjectBinaryToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17603: procedure ObjectResourceToText(Input, Output: TStream)
17604: procedure ObjectResourceToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17605: procedure ObjectTextToBinary(Input, Output: TStream)
17606: procedure ObjectTextToBinary1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17607: procedure ObjectTextToResource(Input, Output: TStream)
17608: procedure ObjectTextToResource1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17609: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
17610: Procedure Open( const UserID : WideString; const Password : WideString);
17611: Procedure Open;
17612: Procedure open1Click( Sender : TObject)
17613: Procedure OpenCdDrive
17614: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)
17615: Procedure OpenCurrent
17616: Procedure OpenFile(vfilenamepath: string)
17617: Procedure OpenDirectory1Click( Sender : TObject)
17618: Procedure OpenIndexFile( const IndexName : string)
17619: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const
SchemID:OleVariant;DataSet:TADODataSet)
17620: Procedure OpenWriteBuffer( const AThreshold : Integer)
17621: Procedure OptimizeMem
17622: Procedure Options1( AURL : string);
17623: Procedure OutputDebugString(lpOutputString : PChar)
17624: Procedure PackBuffer
17625: Procedure Paint
17626: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean)

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17627: Procedure PaintToTBitmap( Target : TBitmap )
17628: Procedure PaletteChanged
17629: Procedure ParentBiDiModeChanged
17630: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT )
17631: Procedure PasteFromClipboard;
17632: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer )
17633: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
17634: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
17635: Procedure PError( Text : string )
17636: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17637: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer;X4:Integer;Y4:Integer);
17638: Procedure Play( FromFrame, ToFrame : Word; Count : Integer )
17639: procedure playmp3(mpPath: string );
17640: Procedure PlayMP31Click( Sender : TObject )
17641: Procedure PointCopy( var Dest : TPoint; const Source : TPoint )
17642: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer )
17643: procedure PolyBezier(const Points: array of TPoint);
17644: procedure PolyBezierTo(const Points: array of TPoint);
17645: procedure Polygon(const Points: array of TPoint);
17646: procedure Polyline(const Points: array of TPoint);
17647: Procedure Pop
17648: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU; GROUPS: array of INT; var WIDTHS : array of LONGINT)
17649: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float )
17650: Procedure POPUP( X, Y : INTEGER )
17651: Procedure PopupURL(URL : WideString);
17652: Procedure POST
17653: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream );
17654: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream );
17655: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream );
17656: Procedure PostUser( const Email, FirstName, LastName : WideString )
17657: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean );
17658: procedure Pred(X: int64);
17659: Procedure Prepare
17660: Procedure PrepareStatement
17661: Procedure PreProcessXML( AList : TStrings )
17662: Procedure PreventDestruction
17663: Procedure Print( const Caption : string )
17664: procedure PrintBitmap(aGraphic: TGraphic; Title: string );
17665: procedure printf(const format: String; const args: array of const );
17666: Procedure PrintList(Value: TStringList );
17667: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
17668: Procedure Printout1Click( Sender : TObject )
17669: Procedure ProcessHeaders
17670: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR )
17671: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean );
17672: Procedure ProcessMessage1( AMsg : TIDMessage; const AStream : TStream; AHeaderOnly : Boolean );
17673: Procedure ProcessMessage2( AMsg : TIDMessage; const AFilename : string; AHeaderOnly : Boolean );
17674: Procedure ProcessMessagesOFF; //application.processmessages
17675: Procedure ProcessMessagesON;
17676: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
17677: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
17678: Procedure Proclist Size is: 3797 /1415
17679: Procedure procMessClick( Sender : TObject )
17680: Procedure PSScriptCompile( Sender : TPSScript )
17681: Procedure PSScriptExecute( Sender : TPSScript )
17682: Procedure PSScriptLine( Sender : TObject )
17683: Procedure Push( ABoundary : string )
17684: procedure PushItem(AItem: Pointer)
17685: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream );
17686: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean );
17687: procedure PutLinuxLines(const Value: string )
17688: Procedure Quit
17689: Procedure RaiseConversionError( const AText : string );
17690: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const );
17691: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string )
17692: procedure RaiseException(Ex: TIFEexception; Param: String );
17693: Procedure RaiseExceptionForLastCmdResult;
17694: procedure RaiseLastException;
17695: procedure RaiseException2;
17696: Procedure RaiseLastOSError
17697: Procedure RaiseLastWin32;
17698: procedure RaiseLastWin32Error)
17699: Procedure RaiseListError( const ATemplate : string; const AData : array of const )
17700: Procedure RandomFillStream( Stream : TMemoryStream )
17701: procedure randomize;
17702: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect )
17703: Procedure RCS
17704: Procedure Read( Socket : TSocket )
17705: Procedure ReadBlobData
17706: procedure ReadBuffer(Buffer:String;Count:LongInt)
17707: procedure ReadOnly1Click(Sender: TObject);
17708: Procedure ReadSection( const Section : string; Strings : TStrings )
17709: Procedure ReadSections( Strings : TStrings )
17710: Procedure ReadSections( Strings : TStrings );
17711: Procedure ReadSections1( const Section : string; Strings : TStrings );
17712: Procedure ReadSectionValues( const Section : string; Strings : TStrings )
17713: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean )
17714: Procedure ReadStrings( ADest : TStrings; AReadLinesCount : Integer )
17715: Procedure ReadVersion2(aFileName: STRING; aVersion : TStrings );

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17716: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
17717: Procedure Realign;
17718: procedure Rectangle(X1, Y1, X2, Y2: Integer);
17719: Procedure Rectangle1( const Rect : TRect);
17720: Procedure RectCopy( var Dest : TRect; const Source : TRect)
17721: Procedure RectFitToScreen( var R : TRect)
17722: Procedure RectGrow( var R : TRect; const Delta : Integer)
17723: Procedure RectGrowX( var R : TRect; const Delta : Integer)
17724: Procedure RectGrowY( var R : TRect; const Delta : Integer)
17725: Procedure RectMove( var R : TRect; const Deltax, DeltaY : Integer)
17726: Procedure RectMoveTo( var R : TRect; const X, Y : Integer)
17727: Procedure RectNormalize( var R : TRect)
17728: // TFileCallbackProcedure = procedure(filename:string);
17729: Procedure RecurseDirectory(Dir: String;IncludeSubs: boolean;callback: TFileCallbackProcedure);
17730: Procedure RecurseDirectory2(Dir: String; IncludeSubs : boolean);
17731: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
17732: Procedure Refresh;
17733: Procedure RefreshData( Options : TFetchOptions)
17734: Procedure REFRESHLOOKUPLIST
17735: Procedure regExPathfinder(Pathin, fileout, firstp, aregex, ext: string; asort: boolean);
17736: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIIdAuthenticationClass)
17737: Procedure RegisterChanges( Value : TChangeLink)
17738: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass)
17739: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass)
17740: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int)
17741: Procedure ReInitialize( ADelay : Cardinal)
17742: procedure RELEASE
17743: Procedure Remove( const AByteCount : integer)
17744: Procedure REMOVE( FIELD : TFIELD)
17745: Procedure REMOVE( ITEM : TMENUITEM)
17746: Procedure REMOVE( POPUP : TPOPUPMENU)
17747: Procedure RemoveAllPasswords
17748: procedure RemoveComponent(AComponent:TComponent)
17749: Procedure RemoveDir( const ADirName : string)
17750: Procedure RemoveLambdaTransitions( var bChanged : boolean)
17751: Procedure REMOVEPARAM( VALUE : TPARAM)
17752: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset);
17753: Procedure RemoveTransitionTo1( oState : TniRegularExpressionState);
17754: Procedure Rename( const ASourceFile, ADestFile : string)
17755: Procedure Rename( const FileName : string; Reload : Boolean)
17756: Procedure RenameTable( const NewTableName : string)
17757: Procedure Replace( Index : Integer; Image, Mask : TBitmap)
17758: Procedure Replace1Click( Sender : TObject)
17759: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime)
17760: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime))
17761: Procedure ReplaceIcon( Index : Integer; Image : TIcon)
17762: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor)
17763: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime)
17764: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
17765: Procedure Requery( Options : TExecuteOptions)
17766: Procedure Reset
17767: Procedure Reset1Click( Sender : TObject)
17768: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor)
17769: procedure ResourceExplore1Click(Sender: TObject);
17770: Procedure RestoreContents
17771: Procedure RestoreDefaults
17772: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string)
17773: Procedure RetrieveHeaders
17774: Procedure RevertRecord
17775: Procedure RGBAToBGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal)
17776: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17777: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17778: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
17779: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
17780: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer)
17781: Procedure RleCompress2( Stream : TStream)
17782: Procedure RleDecompress2( Stream : TStream)
17783: Procedure RmDir(const S: string)
17784: Procedure Rollback
17785: Procedure Rollback( TransactionDesc : TTransactionDesc)
17786: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
17787: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)
17788: Procedure RollbackTrans
17789: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
17790: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
17791: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
17792: Procedure RunDll32Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
17793: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
17794: Procedure S_EBox( const AText : string)
17795: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int)
17796: Procedure S_IBox( const AText : string)
17797: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
17798: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
17799: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string)
17800: Procedure SampleVarianceAndMean
17801: ( const X : TDynFloatArray; var Variance, Mean : Float)
17802: Procedure Save2Click( Sender : TObject)
17803: Procedure Saveas3Click( Sender : TObject)

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17804: Procedure Savebefore1Click( Sender : TObject )
17805: Procedure SaveBytesToFile( const Data: TBytes; const FileName: string );
17806: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
17807: Procedure SaveConfigFile
17808: Procedure SaveOutput1Click( Sender : TObject )
17809: procedure SaveScreenshotClick(Sender: TObject);
17810: Procedure SaveLn(pathname, content: string); //SaveLn(exepath+'mysavelntest.txt', memo2.text);
17811: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
17812: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
17813: Procedure SaveToFile( AFileName : string)
17814: Procedure SAVETOFILE( const FILENAME : String)
17815: Procedure SaveToFile( const FileName : WideString)
17816: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
17817: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
17818: procedure SaveToFile(FileName: string);
17819: procedure SaveToFile(FileName:String)
17820: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
17821: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17822: Procedure SaveToStream( S : TStream)
17823: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17824: Procedure SaveToStream( Stream : TStream)
17825: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
17826: procedure SaveToStream(Stream: TStream);
17827: procedure SaveToStream(Stream:TStream)
17828: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
17829: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
17830: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
17831: procedure Say(const sText: string)
17832: Procedure SBytecode1Click( Sender : TObject )
17833: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
17834: procedure ScriptExplorer1Click(Sender: TObject);
17835: Procedure Scroll( Distance : Integer)
17836: Procedure Scroll( DX, DY : Integer)
17837: procedure ScrollBy(DeltaX, DeltaY: Integer);
17838: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
17839: Procedure ScrollTabs( Delta : Integer)
17840: Procedure Search1Click( Sender : TObject )
17841: procedure SearchAndOpenDoc(vfilenamepath: string)
17842: procedure SearchAndOpenfile(vfilenamepath: string)
17843: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
17844: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
17845: Procedure SearchNext1Click( Sender : TObject )
17846: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
17847: Procedure Select1( const Nodes : array of TTreeNode);
17848: Procedure Select2( Nodes : TList);
17849: Procedure SelectNext( Direction : Boolean)
17850: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
17851: Procedure SelfTestPEM //unit uPSI_CPEM
17852: Procedure Send( AMsg : TIdMessage)
17853: //config forst in const MAILINIFILE = 'maildef.ini';
17854: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','');
17855: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17856: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17857: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
17858: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
17859: Procedure SendResponse
17860: Procedure SendStream( AStream : TStream)
17861: Procedure Set8087CW( NewCW : Word)
17862: Procedure SetAll( One, Two, Three, Four : Byte)
17863: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
17864: Procedure SetAppDispatcher( const ADispatcher : TComponent)
17865: procedure SetArrayLength;
17866: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
17867: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
17868: Procedure SetAsHandle( Format : Word; Value : THandle)
17869: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
17870: procedure SetCaptureControl(Control: TControl);
17871: Procedure SetColumnAttributes
17872: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
17873: Procedure SetCustomHeader( const Name, Value : string)
17874: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
  FieldName:Widestring)
17875: Procedure SetFMTBcd( Buffer : TRecordBuffer; value : TBcd)
17876: Procedure SetFocus
17877: procedure SetFocus; virtual;
17878: Procedure SetInitialState
17879: Procedure SetKey
17880: procedure SetLastError(ErrorCode: Integer)
17881: procedure SetLength;
17882: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
17883: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
17884: Procedure SetParams( ADataSet : TDataSet; UpdateKind : TUpdateKind);
17885: procedure SETPARAMS(APosition,AMIN,AMAX:INTEGER)
17886: Procedure SetParams1( UpdateKind : TUpdateKind);
17887: Procedure SetPassword( const Password : string)
17888: Procedure SetPointer( Ptr : Pointer; Size : Longint)
17889: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
17890: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
17891: Procedure SetProvider( Provider : TComponent)

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17892: Procedure SetProxy( const Proxy : string)
17893: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
17894: Procedure SetRange( const StartValues, EndValues : array of const)
17895: Procedure SetRangeEnd
17896: Procedure SetRate( const aPercent, aYear : integer)
17897: procedure SetRate(const aPercent, aYear: integer)
17898: Procedure Set_ReportMemoryLeaksOnShutdown(ab0: boolean)
17899: Procedure SetsafeCallExceptionMsg( Msg : String)
17900: procedure SETSELTEXTBUF(BUFFER:PCHAR)
17901: Procedure SetSize( AWidth, AHeight : Integer)
17902: procedure SetSize(NewSize:LongInt)
17903: procedure SetString(var s: string; buffer: PChar; len: Integer)
17904: Procedure SetStrings( List : TString)
17905: Procedure SetText( Text : PwideChar)
17906: procedure SetText(Text: Pchar);
17907: Procedure SetTextBuf( Buffer : PChar)
17908: procedure SETTEXTBUF(BUFFER:PCHAR)
17909: Procedure SetTick( Value : Integer)
17910: Procedure SetTimeout( ATimeOut : Integer)
17911: Procedure SetTraceEvent( Event : TDBXTraceEvent)
17912: Procedure SetUserName( const UserName : string)
17913: Procedure SetWallpaper( Path : string);
17914: procedure ShellStyle1Click(Sender: TObject);
17915: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
17916: Procedure ShowFileProperties( const FileName : string)
17917: Procedure ShowInclude1Click( Sender : TObject)
17918: Procedure ShowInterfaces1Click( Sender : TObject)
17919: Procedure ShowLastException1Click( Sender : TObject)
17920: Procedure ShowMessage( const Msg : string)
17921: Procedure ShowMessageBig(const aText : string);
17922: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
17923: Procedure ShowMessageBig3(const aText : string; fsize: byte; aautosize: boolean);
17924: Procedure MsgBig(const aText : string); //alias
17925: procedure showmessage(mytext: string);
17926: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
17927: procedure ShowMessageFmt(const Msg: string; Params: array of const))
17928: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
17929: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
17930: Procedure ShowSearchDialog( const Directory : string)
17931: Procedure ShowSpecChars1Click( Sender : TObject)
17932: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
17933: Procedure ShredFile( const FileName : string; Times : Integer)
17934: procedure Shuffle(vQ: TStringList);
17935: Procedure ShuffleList( var List : array of Integer; Count : Integer)
17936: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
17937: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
17938: Procedure SinCosE( X : Extended; out Sin, Cos : Extended)
17939: Procedure Site( const ACommand : string)
17940: Procedure SkipEOL
17941: Procedure Sleep( ATime : cardinal)
17942: Procedure Sleep( milliseconds : Cardinal)
17943: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
17944: Procedure Slinenumbers1Click( Sender : TObject)
17945: Procedure Sort
17946: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
17947: procedure Speak(const sText: string) //async like voice
17948: procedure Speak2(const sText: string) //sync
17949: procedure Split(Str: string; SubStr: string; List: TString);
17950: Procedure SplitNameValue( const Line : string; var Name, Value : string)
17951: Procedure SplitColumns( const AData : String; AStrings : TString; const ADelim : String)
17952: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TString; const ADelim : String)
17953: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TString)
17954: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
17955: procedure SQLSyntax1Click(Sender: TObject);
17956: Procedure SRand( Seed : RNG_IntType)
17957: Procedure Start
17958: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
17959: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
17960: Procedure StartTransaction( TransDesc : TTransactionDesc)
17961: Procedure Status( var AStatusList : TStringList)
17962: Procedure StatusBar1DblClick( Sender : TObject)
17963: Procedure StepInto1Click( Sender : TObject)
17964: Procedure StepIt
17965: Procedure StepOut1Click( Sender : TObject)
17966: Procedure Stop
17967: procedure stopmp3;
17968: procedure StartWeb(aurl: string);
17969: Procedure Str(integer; astr: string); //of system
17970: Procedure StrDispose( Str : PChar)
17971: procedure StrDispose(Str: PChar)
17972: Procedure StrReplace(var Str: String; Old, New: String);
17973: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
17974: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
17975: Procedure StringToBytes( Value : String; Bytes : array of byte)
17976: procedure StrSet(c : Char; I : Integer; var s : String);
17977: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TString);
17978: Procedure StructureMount( APath : String)
17979: procedure STYLECHANGED(SENDER:TOBJECT)
17980: Procedure Subselect( Node : TTreenode; Validate : Boolean)

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17981: procedure Succ(X: int64);
17982: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
17983: procedure SwapChar(var X,Y: char); //swapX follows
17984: Procedure SwapFloats( var X, Y : Float)
17985: procedure SwapGrid(grd: TStringGrid);
17986: Procedure SwapOrd( var I, J : Byte);
17987: Procedure SwapOrd( var X, Y : Integer)
17988: Procedure SwapOrd1( var I, J : Shortint);
17989: Procedure SwapOrd2( var I, J : Smallint);
17990: Procedure SwapOrd3( var I, J : Word);
17991: Procedure SwapOrd4( var I, J : Integer);
17992: Procedure SwapOrd5( var I, J : Cardinal);
17993: Procedure SwapOrd6( var I, J : Int64);
17994: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
17995: Procedure Synchronize1( Method : TMethod);
17996: procedure SyntaxCheck1Click(Sender: TObject);
17997: Procedure SysFreeString(const S: WideString); stdcall;
17998: Procedure TakeOver( Other : TLinearBitmap)
17999: Procedure TalkIn(const sText: string) //async voice
18000: procedure tbtn6resClick(Sender: TObject);
18001: Procedure tbtnUseCaseClick( Sender : TObject)
18002: procedure TerminalStyle1Click(Sender: TObject);
18003: Procedure Terminate
18004: Procedure texSyntax1Click( Sender : TObject)
18005: procedure TextOut(X, Y: Integer; Text: string);
18006: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
18007: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
18008: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
18009: Procedure TextStart
18010: procedure TILE
18011: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
18012: Procedure TitleClick( Column : TColumn)
18013: Procedure ToDo
18014: procedure toolbtnTutorialClick(Sender: TObject);
18015: Procedure Trace1( AURL : string; const AResponseContent : TStream);
18016: Procedure TransferMode( ATransferMode : TIidFTPTTransferMode)
18017: Procedure Truncate
18018: procedure Tutorial101Click(Sender: TObject);
18019: procedure Tutorial10Statistics1Click(Sender: TObject);
18020: procedure Tutorial11Forms1Click(Sender: TObject);
18021: procedure Tutorial12SQL1Click(Sender: TObject);
18022: Procedure tutorial1Click( Sender : TObject)
18023: Procedure tutorial2Click( Sender : TObject)
18024: Procedure tutorial3Click( Sender : TObject)
18025: Procedure tutorial4Click( Sender : TObject)
18026: Procedure Tutorial5Click( Sender : TObject)
18027: procedure Tutorial6Click(Sender: TObject);
18028: procedure Tutorial91Click(Sender: TObject);
18029: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
18030: procedure UniqueString(var str: AnsiString)
18031: procedure UnloadLoadPackage(Module: HMODULE)
18032: Procedure Unlock
18033: Procedure UNMERGE( MENU : TMainMenu)
18034: Procedure UnRegisterChanges( Value : TChangeLink)
18035: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
18036: Procedure UnregisterConversionType( const AType : TConvType)
18037: Procedure UnRegisterProvider( Prov : TCustomProvider)
18038: Procedure UPDATE
18039: Procedure UpdateBatch( AffectRecords : TAffectRecords)
18040: Procedure UPDATECURSORPOS
18041: Procedure UpdateFile
18042: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
18043: Procedure UpdateResponse( AResponse : TWebResponse)
18044: Procedure UpdateScrollBar
18045: Procedure UpdateView1Click( Sender : TObject)
18046: procedure Val(const s: string; var n, z: Integer)
18047: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
18048: Procedure VarFMTBcdCreate( var ADest : Variant; const ABCd : TBcd);
18049: Procedure VariantAdd( const src : Variant; var dst : Variant)
18050: Procedure VariantAnd( const src : Variant; var dst : Variant)
18051: Procedure VariantArrayRedim( var V : Variant; High : Integer)
18052: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
18053: Procedure VariantClear( var V : Variant)
18054: Procedure VariantCpy( const src : Variant; var dst : Variant)
18055: Procedure VariantDiv( const src : Variant; var dst : Variant)
18056: Procedure VariantMod( const src : Variant; var dst : Variant)
18057: Procedure VariantMul( const src : Variant; var dst : Variant)
18058: Procedure VariantOr( const src : Variant; var dst : Variant)
18059: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer);
18060: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer);
18061: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer);
18062: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer);
18063: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer);
18064: Procedure VariantShl( const src : Variant; var dst : Variant)
18065: Procedure VariantShr( const src : Variant; var dst : Variant)
18066: Procedure VariantSub( const src : Variant; var dst : Variant)
18067: Procedure VariantXor( const src : Variant; var dst : Variant)
18068: Procedure VarCastError;
18069: Procedure VarCastError1( const ASourceType, ADestType : TVarType);

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18070: Procedure VarInvalidOp
18071: Procedure VarInvalidNullOp
18072: Procedure VarOverflowError( const ASourceType, ADestType : TVarType )
18073: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType )
18074: Procedure VarArrayCreateError
18075: Procedure VarResultCheck( AResult : HRESULT );
18076: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType );
18077: Procedure HandleConversionException( const ASourceType, ADestType : TVarType )
18078: Function VarTypeAsText( const AType : TVarType ) : string
18079: procedure Voice(const sText: string) //async
18080: procedure Voice2(const sText: string) //sync
18081: Procedure WaitMilliseconds( AMSec : word)
18082: Procedure WideAppend( var dst : WideString; const src : WideString)
18083: Procedure WideAssign( var dst : WideString; var src : WideString)
18084: Procedure WideDelete( var dst : WideString; index, count : Integer)
18085: Procedure WideFree( var s : WideString)
18086: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
18087: Procedure WideFromPChar( var dst : WideString; src : PChar)
18088: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
18089: Procedure WideSetLength( var dst : WideString; len : Integer)
18090: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
18091: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
18092: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
18093: Procedure Wininet_HttpGet(const Url: string; Stream:TStream);
18094: Procedure HttpGet(const Url: string; Stream:TStream);
18095: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIddBytes; Index : integer)
18096: Procedure WordWrapClick( Sender : TObject)
18097: Procedure Write( const AOut : string)
18098: Procedure Write( Socket : TSocket)
18099: procedure Write(S: string);
18100: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
18101: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
18102: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
18103: procedure WriteBuffer(Buffer:String;Count:LongInt)
18104: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
18105: Procedure WriteChar( AValue : Char)
18106: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
18107: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
18108: Procedure WriteFloat( const Section, Name : string; Value : Double)
18109: Procedure WriteHeader( AHeader : TStrings)
18110: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
18111: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
18112: Procedure WriteLn( const AOut : string)
18113: procedure Writeln(s: string);
18114: Procedure WriteLog( const FileName, LogLine : string)
18115: Procedure WriteRFCReply( AReply : TIidRFCReply)
18116: Procedure WriteRFCStrings( AStrings : TStrings)
18117: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
18118: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASize:Int)
18119: Procedure WriteString( const Section, Ident, Value : String)
18120: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
18121: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
18122: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
18123: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18124: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18125: Procedure WriteDataSetToCSV(DataSet: TDataSet; FileName: String) );
18126: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
18127: procedure XMLSyntax1Click(Sender: TObject);
18128: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
18129: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
18130: Procedure ZeroFillStream( Stream : TMemoryStream)
18131: procedure XMLSyntax1Click(Sender: TObject);
18132: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
18133: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
18134: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
18135: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
18136: procedure(Sender, Source: TObject; X, Y: Integer)
18137: procedure(Sender, Target: TObject; X, Y: Integer)
18138: procedure(Sender: TObject; ASection, AWidth: Integer)
18139: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
18140: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
18141: procedure(Sender: TObject; var Action: TCloseAction)
18142: procedure(Sender: TObject; var CanClose: Boolean)
18143: procedure(Sender: TObject; var Key: Char);
18144: ProcedureName ProcedureNames ProcedureParametersCursor @
18145:
18146: *****Now Constructors constructor *****
18147: Size is: 1248 1115 996 628 550 544 501 459 (381)
18148: Attach( VersionInfoData : Pointer; Size : Integer)
18149: constructor Create( ABuckets : TBucketListSizes)
18150: Create( ACallBackWnd : HWnd)
18151: Create( AClient : TCustomTaskDialog)
18152: Create( AClient : TIIdTelnet)
18153: Create( ACollection : TCollection)
18154: Create( ACollection : TFavoriteLinkItems)
18155: Create( ACollection : TTaskDialogButtons)
18156: Create( AConnection : TIIdCustomHTTP)
18157: Create( ACreateSuspended : Boolean)
18158: Create( ADataSet : TCustomSQLDataSet)

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18159: CREATE( ADataSet : TDataset )
18160: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet );
18161: Create( AGrid : TCustomDBGrid )
18162: Create( AGrid : TStringGrid; AIndex : Longint )
18163: Create( AHTTP : TIdCustomHTTP )
18164: Create( AListItems : TListItems )
18165: Create( AOnBytesRemoved : TIdBufferBytesRemoved )
18166: Create( AOnBytesRemoved : TIdBufferBytesRemoved )
18167: Create( AOwner : TCommonCalendar )
18168: Create( AOwner : TComponent )
18169: CREATE( AOWNER : TCOMPONENT )
18170: Create( AOwner : TCustomListView )
18171: Create( AOwner : TCustomOutline )
18172: Create( AOwner : TCustomRichEdit )
18173: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType )
18174: Create( AOwner : TCustomTreeView )
18175: Create( AOwner : TIdUserManager )
18176: Create( AOwner : TListItems )
18177: Create( AOwner : TObj; Handl : hDBCICur; CBTyp : CBType; CBBuf : Ptr; CBBufSiz : Int; CallbkEvt : TBDECallbkEvt; Chain : Bool )
18178: CREATE( AOWNER : TPERSISTENT )
18179: Create( AOwner : TPersistent )
18180: Create( AOwner : TTable )
18181: Create( AOwner : TTreeNodes )
18182: Create( AOwner : TWinControl; const ClassName : string )
18183: Create( AParent : TIdCustomHTTP )
18184: Create( AParent : TUpdateTree; AResolver : TCustomResolver )
18185: Create( AProvider : TBaseProvider )
18186: Create( AProvider : TCustomProvider );
18187: Create( AProvider : TDataSetProvider )
18188: Create( ASocket : TCustomWinSocket; TimeOut : Longint )
18189: Create( ASocket : TSocket )
18190: Create( AStrings : TWideStrings )
18191: Create( AToolBar : TToolBar )
18192: Create( ATreeNodes : TTreeNodes )
18193: Create( Autofill : boolean )
18194: Create( AWebPageInfo : TAbstractWebPageInfo )
18195: Create( AWebRequest : TWebRequest )
18196: Create( Collection : TCollection )
18197: Create( Collection : TIdMessageParts; ABody : TStrings )
18198: Create( Collection : TIdMessageParts; const AFileName : TFileName )
18199: Create( Column : TColumn )
18200: Create( const AConvFamily : TConvFamily; const ADescription : string )
18201: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double )
18202: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc )
18203: Create( const AInitialState : Boolean; const AManualReset : Boolean )
18204: Create( const ATabSet : TTabSet )
18205: Create( const Compensate : Boolean )
18206: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64 )
18207: Create( const FileName : string )
18208: Create( const FileName : string; FileMode : Cardinal; const Name : string; Protect : Cardinal; const MaximumSize
  : Int64; const SecAttr : PSecurityAttributes );
18209: Create( const FileName : string; FileMode : WordfmShareDenyWrite )
18210: Create( const MaskValue : string )
18211: Create( const Name : string; Protect : Cardinal; const MaximumSize : Int64; const SecAttr : PSecurityAttributes )
18212: Create( const Prefix : string )
18213: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags )
18214: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags )
18215: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags )
18216: Create( CoolBar : TCoolBar )
18217: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket )
18218: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket )
18219: Create( DataSet : TDataSet; const
  Text : Widestring; Options : TFilterOptions; ParserOptions : TParserOptions; const FieldName : Widestring;
  DepFields : TBits; FieldMap : TFieldMap )
18220: Create( DBCtrlGrid : TDBCtrlGrid )
18221: Create( DSTableProducer : TDSTableProducer )
18222: Create( DSTableProducer : TDSTableProducer; ColumnClass : THMLTableColumnClass )
18223: Create( ErrorCode : DBIResult )
18224: Create( Field : TBlobField; Mode : TBlobStreamMode )
18225: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass )
18226: Create( HeaderControl : TCustomHeaderControl )
18227: Create( HTTPRequest : TWebRequest )
18228: Create( iStart : integer; sText : string )
18229: Create( iValue : Integer )
18230: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind )
18231: Create( MciErrNo : MCIERROR; const Msg : string )
18232: Create( MemoryStream : TCustomMemStream; FreeStream : Boolean; const AIndexOption : TJclMappedTextReaderIndex );
18233: Create( Message : string; ErrorCode : DBResult )
18234: Create( Msg : string )
18235: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception )
18236: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult )
18237: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType )
18238: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags )
18239: Create( oSource : TniRegularExpressionState; oDestination : TniRegularExpressionState; xCharacts : TCharSet; bLambda : bool )
18240: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar )
18241: Create( Owner : TCustomComboBoxEx )
18242: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS )
18243: Create( Owner : TPersistent )

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18244: Create( Params : TStrings )
18245: Create( Size : Cardinal )
18246: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket )
18247: Create( StatusBar : TCustomStatusBar )
18248: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass )
18249: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass )
18250: Create(AHandle:Integer)
18251: Create(AOwner: TComponent); virtual;
18252: Create(const AURI : string)
18253: Create(FileName:String;Mode:Word)
18254: Create(Instance:THandle;ResName:String;ResType:PChar)
18255: Create(Stream : TStream)
18256: Create(ADataset : TDataset)
18257: Create( const FileHandle:THandle; const Name:string; Protect:Cardinal; const MaximumSize:Int64; const SecAttr:PSecurityAttributes );
18258: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex );
18259: Create2( Other : TObject );
18260: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
18261: CreateError( const anErrCode: Integer; const asReplyMessage: string; const asErrorMessage: string )
18262: CreateFmt( MciErrNo : MCIERRO; const Msg : string; const Args : array of const )
18263: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
18264: CreateLinked( DBCtrlGrid : TDBCtrlGrid )
18265: CREATENEW(AOWNER:TCOMPONENT; Dummy: Integer)
18266: CreateRes( Ident : Integer );
18267: CreateRes( MciErrNo : MCIERRO; Ident : Integer )
18268: CreateRes( ResStringRec : PResStringRec );
18269: CreateResHelp( Ident : Integer; AHelpContext : Integer );
18270: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer );
18271: CreateShadow( AOwner : TComponent; ControlSide : TControlSide )
18272: CreateSize( AWidth, AHeight : Integer )
18273: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal )
18274:
18275: -----
18276: unit upSI_MathMax;
18277: -----
18278: CONSTS
18279: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
18280: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
18281: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
18282: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
18283: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
18284: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
18285: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
18286: PiJ: Float = 3.1415926535897932384626433832795; // PI
18287: PI_ Extended = 3.1415926535897932384626433832795;
18288: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
18289: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
18290: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
18291: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
18292: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
18293: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
18294: Sqrt10: Float = 3.162277660168379331998893544327; // Sqrt(10)
18295: SqrtPi: Float = 1.7724538509055160272981674833411; // Sqrt(PI)
18296: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
18297: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
18298: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
18299: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
18300: Ln10: Float = 2.3025850929940456840179914546844; // Ln(10)
18301: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
18302: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
18303: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
18304: LogPi: Float = 0.4971498726941338543512682882909; // Log10(PI)
18305: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
18306: E: Float = 2.7182818284590452353602874713527; // Natural constant
18307: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2*PI)/2
18308: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
18309: TwoToPower63: Float = 9223372036854775808; // 2^63
18310: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
18311: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
18312: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
18313: StDelta : Extended = 0.00001; {delta for difference equations}
18314: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
18315: StMaxIterations : Integer = 100; {max attempts for convergence}
18316:
18317: procedure SIRegister_StdConvs(CL: TSPSPascalCompiler);
18318: begin
18319:   MetersPerInch = 0.0254; // [1]
18320:   MetersPerFoot = MetersPerInch * 12;
18321:   MetersPerYard = MetersPerFoot * 3;
18322:   MetersPerMile = MetersPerFoot * 5280;
18323:   MetersPerNauticalMiles = 1852;
18324:   MetersPerAstronomicalUnit = 1.49598E11; // [4]
18325:   MetersPerLightSecond = 2.99792458E8; // [5]
18326:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
18327:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
18328:   MetersPerCubit = 0.4572; // [6][7]
18329:   MetersPerFathom = MetersPerFoot * 6;
18330:   MetersPerFurlong = MetersPerYard * 220;
18331:   MetersPerHand = MetersPerInch * 4;

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18332: MetersPerPace = MetersPerInch * 30;
18333: MetersPerRod = MetersPerFoot * 16.5;
18334: MetersPerChain = MetersPerRod * 4;
18335: MetersPerLink = MetersPerChain / 100;
18336: MetersPerPoint = MetersPerInch * 0.013837; // [7]
18337: MetersPerPica = MetersPerPoint * 12;
18338:
18339: SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
18340: SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
18341: SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
18342: SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
18343: SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
18344: SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
18345:
18346: CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
18347: CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
18348: CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
18349: CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
18350: CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
18351: CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
18352: CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
18353: CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
18354:
18355: CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
18356: CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
18357: CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
18358: CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
18359: CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
18360: CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
18361: CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
18362: CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
18363:
18364: CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
18365: CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
18366: CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
18367: CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
18368: CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
18369: CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
18370:
18371: CubicMetersPerUKGallon = 0.00454609; // [2][7]
18372: CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
18373: CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
18374: CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
18375: CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
18376: CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
18377: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
18378: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
18379: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
18380:
18381: GramsPerPound = 453.59237; // [1][7]
18382: GramsPerDrams = GramsPerPound / 256;
18383: GramsPerGrains = GramsPerPound / 7000;
18384: GramsPerTons = GramsPerPound * 2000;
18385: GramsPerLongTons = GramsPerPound * 2240;
18386: GramsPerOunces = GramsPerPound / 16;
18387: GramsPerStones = GramsPerPound * 14;
18388:
18389: MaxAngle 9223372036854775808.0;
18390: MaxTanH 5678.2617031470719747459655389854);
18391: MaxFactorial( 1754);
18392: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
18393: MinFloatingPoint(,3.3621031431120935062626778173218E-4932);
18394: MaxTanH( 354.89135644669199842162284618659);
18395: MaxFactorial'LongInt'( 170);
18396: MaxFloatingPointD(1.797693134862315907729305190789E+308);
18397: MinFloatingPointD(2.2250738585072013830902327173324E-308);
18398: MaxTanH( 44.361419555836499802702855773323);
18399: MaxFactorial'LongInt'( 33);
18400: MaxFloatingPoints( 3.4028236692093846346337460743177E+38);
18401: MinFloatingPoints( 1.1754943508222875079687365372222E-38);
18402: PiExt( 3.1415926535897932384626433832795);
18403: RatioDegToRad( PiExt / 180.0);
18404: RatioGradToRad( PiExt / 200.0);
18405: RatioDegToGrad( 200.0 / 180.0);
18406: RatioGradToDeg( 180.0 / 200.0);
18407: Crc16PolynomCCITT'LongWord $1021);
18408: Crc16PolynomIBM'LongWord $8005);
18409: Crc16Bits'LongInt'( 16);
18410: Crc16Bytes'LongInt'( 2);
18411: Crc16HighBit'LongWord $8000);
18412: NotCrc16HighBit', 'LongWord $7FFF);
18413: Crc32PolynomIEEE', 'LongWord $04C11DB7);
18414: Crc32PolynomCastagnoli', 'LongWord $1EDC6F41);
18415: Crc32Koopman', 'LongWord $741B8CD7);
18416: Crc32Bits', 'LongInt'( 32);
18417: Crc32Bytes', 'LongInt'( 4);
18418: Crc32HighBit', 'LongWord $80000000);
18419: NotCrc32HighBit', 'LongWord $7FFFFFFF);
18420:

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18421: MinByte      = Low(Byte);
18422: MaxByte      = High(Byte);
18423: MinWord      = Low(Word);
18424: MaxWord      = High(Word);
18425: MinShortInt  = Low(ShortInt);
18426: MaxShortInt  = High(ShortInt);
18427: MinSmallInt  = Low(SmallInt);
18428: MaxSmallInt  = High(SmallInt);
18429: MinLongWord   = LongWord(Low(LongWord));
18430: MaxLongWord   = LongWord(High(LongWord));
18431: MinLongInt   = LongInt(Low(LongInt));
18432: MaxLongInt   = LongInt(High(LongInt));
18433: MinInt64     = Int64(Low(Int64));
18434: MaxInt64     = Int64(High(Int64));
18435: MinInteger   = Integer(Low(Integer));
18436: MaxInteger   = Integer(High(Integer));
18437: MinCardinal  = Cardinal(Low(Cardinal));
18438: MaxCardinal  = Cardinal(High(Cardinal));
18439: MinNativeUInt = NativeUInt(Low(NativeUInt));
18440: MaxNativeUInt = NativeUInt(High(NativeUInt));
18441: MinNativeInt  = NativeInt(Low(NativeInt));
18442: MaxNativeInt  = NativeInt(High(NativeInt));
18443: Function Cosh( const Z : Float ) : Float;
18444: Function SinH( const Z : Float ) : Float;
18445: Function TanH( const Z : Float ) : Float;
18446:
18447:
18448: //*****from DMath.Lib of types.inc in source\dmath_dll
18449: InvLn2        = 1.44269504088896340736; { 1/Ln(2) }
18450: InvLn10       = 0.43429448190325182765; { 1/Ln(10) }
18451: TwoPi         = 6.28318530717958647693; { 2*Pi }
18452: PiDiv2       = 1.57079632679489661923; { Pi/2 }
18453: SqrtPi        = 1.77245385090551602730; { Sqrt(Pi) }
18454: Sqrt2Pi       = 2.50662827463100050242; { Sqrt(2*Pi) }
18455: InvSqrt2Pi    = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
18456: LnSqrt2Pi    = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
18457: Ln2PiDiv2    = 0.91893853320467274178; { Ln(2*Pi)/2 }
18458: Sqrt2          = 1.41421356237309504880; { Sqrt(2) }
18459: Sqrt2Div2    = 0.70710678118654752440; { Sqrt(2)/2 }
18460: Gold          = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
18461: CGold         = 0.38196601125010515179; { 2 - GOLD }
18462: MachEp        = 2.220446049250313E-16; { 2^(-52) }
18463: MaxNum        = 1.797693134862315E+308; { 2^1024 }
18464: MinNum        = 2.225073858507202E-308; { 2^(-1022) }
18465: MaxLog        = 709.7827128933840;
18466: MinLog        = -708.3964185322641;
18467: MaxFac        = 170;
18468: MaxGam        = 171.624376956302;
18469: MaxLgm        = 2.556348E+305;
18470: SingleCompareDelta = 1.0E-34;
18471: DoubleCompareDelta = 1.0E-280;
18472: {$IFDEF CLR}
18473: ExtendedCompareDelta = DoubleCompareDelta;
18474: {$ELSE}
18475: ExtendedCompareDelta = 1.0E-4400;
18476: {$ENDIF}
18477: Bytes1KB      = 1024;
18478: Bytes1MB      = 1024 * Bytes1KB;
18479: Bytes1GB      = 1024 * Bytes1MB;
18480: Bytes64KB     = 64 * Bytes1KB;
18481: Bytes64MB     = 64 * Bytes1MB;
18482: Bytes2GB      = 2 * LongWord(Bytes1GB);
18483: clBlack32' , $FF000000 );
18484: clDimGray32' , $FF3F3F3F );
18485: clGray32' , $FF7F7F7F );
18486: clLightGray32' , $FFBFBFBF );
18487: clWhite32' , $FFFFFF );
18488: clMaroon32' , $FF7F0000 );
18489: clGreen32' , $FF007F00 );
18490: clOlive32' , $FF7F7F00 );
18491: clNavy32' , $FF00007F );
18492: clPurple32' , $FF7F007F );
18493: clTeal32' , $FF007F7F );
18494: clRed32' , $FFFF0000 );
18495: clLime32' , $FF00FF00 );
18496: clYellow32' , $FFFFFF00 );
18497: clBlue32' , $FF0000FF );
18498: clFuchsia32' , $FFFF00FF );
18499: clAqua32' , $FF00FFFF );
18500: clAliceBlue32' , $FFF0F8FF );
18501: clAntiqueWhite32' , $FFFAEBD7 );
18502: clAquamarine32' , $FF7FFF4D );
18503: clAzure32' , $FFF0FFFF );
18504: clBeige32' , $FFF5F5DC );
18505: clBisque32' , $FFFFE4C4 );
18506: clBlancheDalmond32' , $FFFFEBCD );
18507: clBlueViolet32' , $FF8A2BE2 );
18508: clBrown32' , $FFA52A2A );
18509: clBurlyWood32' , $FFDEB887 );

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18510: clCadetblue32', $FF5F9EA0 ));
18511: clChartreuse32', $FF7FFF00 ));
18512: clChocolate32', $FFD2691E ));
18513: clCoral32', $FFFFF7F50 ));
18514: clCornflowerBlue32', $FF6495ED ));
18515: clCornSilk32', $FFFFFF8DC ));
18516: clCrimson32', $FFDC143C ));
18517: clDarkBlue32', $FF00008B ));
18518: clDarkCyan32', $FF008B8B ));
18519: clDarkGoldenRod32', $FFB8860B ));
18520: clDarkGray32', $FFA9A9A9 ));
18521: clDarkGreen32', $FF006400 ));
18522: clDarkGrey32', $FFA9A9A9 ));
18523: clDarkKhaki32', $FFDBE76B ));
18524: clDarkMagenta32', $FF8B008B ));
18525: clDarkOliveGreen32', $FF556B2F ));
18526: clDarkOrange32', $FFFFF8C00 ));
18527: clDarkOrchid32', $FF9932CC ));
18528: clDarkRed32', $FF8B0000 ));
18529: clDarkSalmon32', $FFE9967A ));
18530: clDarkSeaGreen32', $FF8FB8CF ));
18531: clDarkSlateBlue32', $FF483D8B ));
18532: clDarkSlateGray32', $FF2F4F4F ));
18533: clDarkSlateGrey32', $FF2F4F4F ));
18534: clDarkTurquoise32', $FF00CED1 ));
18535: clDarkViolet32', $FF9400D3 ));
18536: clDeepPink32', $FFFF1493 ));
18537: clDeepSkyBlue32', $FF00BFFF ));
18538: clDodgerBlue32', $FF1E90FF ));
18539: clFireBrick32', $FFB22222 );
18540: clFloralWhite32', $FFFFFFAF0 ));
18541: clGainsboro32', $FFDCDCDC ));
18542: clGhostWhite32', $FFF8F8FF ));
18543: clGold32', $FFFFFD700 ));
18544: clGoldenRod32', $FFDA520 ));
18545: clGreenYellow32', $FFADFF2F ));
18546: clGrey32', $FF808080 ));
18547: clHoneyDew32', $FFF0FFF0 ));
18548: clHotPink32', $FFFF69B4 ));
18549: clIndianRed32', $FFCD5C5C ));
18550: clIndigo32', $FF4B0082 ));
18551: clIvory32', $FFFFFF00 ));
18552: clKhaki32', $FFF0E68C ));
18553: clLavender32', $FFE6E6FA ));
18554: clLavenderBlush32', $FFFFFF0F5 ));
18555: clLawnGreen32', $FF7CFC00 ));
18556: clLemonChiffon32', $FFFFFFACD ));
18557: clLightBlue32', $FFADD8E6 ));
18558: clLightCoral32', $FFF08080 ));
18559: clLightCyan32', $FFE0FFF0 ));
18560: clLightGoldenRodYellow32', $FFFAFAD2 ));
18561: clLightGreen32', $FF90EE90 ));
18562: clLightGrey32', $FFD3D3D3 ));
18563: clLightPink32', $FFFFB6C1 ));
18564: clLightSalmon32', $FFFA07A ));
18565: clLightSeagreen32', $FF20B2AA ));
18566: clLightSkyblue32', $FF87CEFA ));
18567: clLightSlategray32', $FF778899 ));
18568: clLightSlategrey32', $FF778899 ));
18569: clLightSteelblue32', $FFBC04DE ));
18570: clLightYellow32', $FFFFFFE0 ));
18571: clLtGray32', $FFC0C0C0 ));
18572: clMedGray32', $FFA0A0A4 ));
18573: clDkGray32', $FF808080 ));
18574: clMoneyGreen32', $FFC0DCC0 ));
18575: clLegacySkyBlue32', $FFA6CAF0 ));
18576: clCream32', $FFFFFFBF0 ));
18577: clLimeGreen32', $FF32CD32 ));
18578: clLinen32', $FFFAF0E6 ));
18579: clMediumAquamarine32', $FF66CDAA ));
18580: clMediumBlue32', $FF0000CD ));
18581: clMediumOrchid32', $FFBA55D3 ));
18582: clMediumPurple32', $FF9370DB ));
18583: clMediumSeaGreen32', $FF3CB371 ));
18584: clMediumSlateBlue32', $FF7B68EE ));
18585: clMediumSpringGreen32', $FF00FA9A ));
18586: clMediumTurquoise32', $FF48D1CC ));
18587: clMediumVioletRed32', $FFC71585 ));
18588: clMidnightBlue32', $FF191970 ));
18589: clMintCream32', $FFF5FFFA ));
18590: clMistyRose32', $FFFFFFE4E1 ));
18591: clMoccasin32', $FFFFE4B5 ));
18592: clNavajoWhite32', $FFFFFFDEAD ));
18593: clOldLace32', $FFDF5E6 ));
18594: clOliveDrab32', $FF6B8E23 ));
18595: clOrange32', $FFFFA500 ));
18596: clOrangeRed32', $FFFF4500 ));
18597: clOrchid32', $FFDA70D6 ));
18598: clPaleGoldenRod32', $FFEEE8AA ));
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18599:     clPaleGreen32', $FF98FB98 ));
18600:     clPaleTurquoise32', $FFAFEEEE ));
18601:     clPaleVioletred32', $FFDB7093 ));
18602:     clPapayaWhip32', $FFFFEFD5 ));
18603:     clPeachPuff32', $FFFFDAB9 ));
18604:     clPeru32', $FFCD853B ));
18605:     clPlum32', $FFDDA0DD ));
18606:     clPowderBlue32', $FFB0E0E6 ));
18607:     clRosyBrown32', $FFBC8F8F ));
18608:     clRoyalBlue32', $FF4169E1 ));
18609:     clSaddleBrown32', $FF8B4513 ));
18610:     clSalmon32', $FFFA8072 ));
18611:     clSandyBrown32', $FFF4A460 ));
18612:     clSeaGreen32', $FF28B57 ));
18613:     clSeaShell32', $FFFFFF5EE ));
18614:     clSienna32', $FFA0522D ));
18615:     clSilver32', $FFC0C0C0 ));
18616:     clSkyblue32', $FF87CEEB ));
18617:     clSlateBlue32', $FF6A5ACD ));
18618:     clSlateGray32', $FF708090 ));
18619:     clSlateGrey32', $FF708090 ));
18620:     clSnow32', $FFFFFFFAFA ));
18621:     clSpringgreen32', $FF00FF7F ));
18622:     clSteelblue32', $FF4682B4 ));
18623:     clTan32', $FFD2B48C ));
18624:     clThistle32', $FFD8BFD8 ));
18625:     clTomato32', $FFFF6347 ));
18626:     clTurquoise32', $FF40E0D0 ));
18627:     clViolet32', $FFEE82EE ));
18628:     clWheat32', $FFF5DEB3 ));
18629:     clWhitesmoke32', $FFF5F5F5 ));
18630:     clYellowgreen32', $FF9ACD32 ));
18631:     clTrWhite32', $7FFFFFFF ));
18632:     clTrBlack32', $7F000000 ));
18633:     clTrRed32', $7FFF0000 ));
18634:     clTrGreen32', $7F00FF00 ));
18635:     clTrBlue32', $7F0000FF ));
18636: // Fixed point math constants
18637: FixedOne = $10000; FixedHalf = $7FFF;
18638: FixedPI = Round(PI * FixedOne);
18639: FixedToFloat = 1/FixedOne;
18640:
18641: Special Types
18642: ****
18643: type Complex = record
18644:   X, Y : Float;
18645: end;
18646: type TVector      = array of Float;
18647: TIntVector    = array of Integer;
18648: TCompVector   = array of Complex;
18649: TBoolVector   = array of Boolean;
18650: TStringVector = array of String;
18651: TMatrix        = array of TVector;
18652: TIntMatrix    = array of TIntVector;
18653: TCompMatrix   = array of TCompVector;
18654: TBoolMatrix   = array of TBoolVector;
18655: TStringMatrix = array of TString;
18656: TByteArray    = array[0..32767] of byte;
18657: THexArray     = array [0..15] of Char; // = '0123456789ABCDEF';
18658: TBitmapStyle  = (bsNormal, bsCentered, bsStretched);
18659: T2StringArray = array of array of string;
18660: T2IntegerArray = array of array of integer;
18661: AddTypes('INT_PTR', 'Integer');
18662: AddTypes('LONG_PTR', 'Integer');
18663: AddTypes('UINT_PTR', 'Cardinal');
18664: AddTypes('ULONG_PTR', 'Cardinal');
18665: AddTypes('DWORD_PTR', 'ULong');
18666: TIntegerDynArray', 'array of Integer;
18667: TCardinalDynArray', 'array of Cardinal;
18668: TWordDynArray', 'array of Word;
18669: TSmallIntDynArray', 'array of SmallInt;
18670: TByteDynArray', 'array of Byte;
18671: TShortIntDynArray', 'array of ShortInt;
18672: TInt64DynArray', 'array of Int64;
18673: TLongWordDynArray', 'array of LongWord;
18674: TSingleDynArray', 'array of Single;
18675: TDoubleDynArray', 'array of Double;
18676: TBooleanDynArray', 'array of Boolean;
18677: TStringDynArray', 'array of string;
18678: TWideStringDynArray', 'array of WideString;
18679: TDynByteArray = array of Byte;
18680: TDynShortintArray = array of Shortint;
18681: TDynSmallintArray = array of Smallint;
18682: TDynWordArray = array of Word;
18683: TDynIntegerArray = array of Integer;
18684: TDynLongintArray = array of Longint;
18685: TDynCardinalArray = array of Cardinal;
18686: TDynInt64Array = array of Int64;
18687: TDynExtendedArray = array of Extended;

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18688: TDynDoubleArray = array of Double;
18689: TDynSingleArray = array of Single;
18690: TDynFloatArray = array of Float;
18691: TDynPointerArray = array of Pointer;
18692: TDynStringArray = array of string;
18693: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
18694:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
18695: TSynSearchOptions = set of TSynSearchOption;
18696:
18697:
18698:
18699: /* Project : Base Include RunTime Lib for maxBox *Name: pas_includebox.inc
18700: -----
18701: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
18702: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
18703: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
18704: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
18705: function CheckStringSum(vstring: string): integer;
18706: function HexToInt(HexNum: string): LongInt;
18707: function IntToBin(Int: Integer): String;
18708: function BinToInt(Binary: String): Integer;
18709: function HexToBin(HexNum: string): string; external2
18710: function BinToHex(Binary: String): string;
18711: function IntToFloat(i: Integer): double;
18712: function AddThousandsSeparator(S: string; myChr: Char): string;
18713: function Max3(const X,Y,Z: Integer): Integer;
18714: procedure Swap(var X,Y: char); // faster without inline
18715: procedure ReverseString(var S: String);
18716: function CharToHexStr(Value: Char): string;
18717: function CharToUniCode(Value: Char): string;
18718: function Hex2Dec(Value: Str002): Byte;
18719: function HexStrCodeToStr(Value: string): string;
18720: function HexToStr(i: integer; value: string): string;
18721: function UniCodeToStr(Value: string): string;
18722: function CRC16(statement: string): string;
18723: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
18724: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
18725: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
18726: Procedure ExecuteCommand(executeFile, paramstring: string);
18727: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
18728: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
18729: procedure SearchAndOpenDoc(vfilenamepath: string);
18730: procedure ShowInterfaces(myFile: string);
18731: function Fact2(av: integer): extended;
18732: Function BoolToStr(B: Boolean): string;
18733: Function GCD(x, y : LongInt) : LongInt;
18734: function LCM(m,n: longint): longint;
18735: function GetASCII: string;
18736: function GetItemHeight(Font: TFont): Integer;
18737: function myPlaySound(s: pchar; flag,syncflag: integer): boolean;
18738: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
18739: function getHINSTANCE: longword;
18740: function getHMODULE: longword;
18741: function GetASCII: string;
18742: function ByteisOk(const AByte: string; var VB: Byte): boolean;
18743: function WordisOk(const AWord: string; var VW: Word): boolean;
18744: function TwentyFourBitValueisOk(const AValue: string; var VI: Integer): boolean;
18745: function LongisOk(const Along: string; var VC: Cardinal): boolean;
18746: function SafeStr(const s: string): string;
18747: function ExtractUrlPath(const FileName: string): string;
18748: function ExtractUrlName(const FileName: string): string;
18749: function IsInternet: boolean;
18750: function RotateLeft1Bit_u32( Value: uint32): uint32;
18751: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int;var
18752: LF:TStLinEst; ErrorStats : Boolean);
18753: procedure getEnvironmentInfo;
18754: procedure AntiFreeze;
18755: function GetCPUSpeed: Double;
18756: function IsVirtualPcGuest : Boolean;
18757: function IsVmWareGuest : Boolean;
18758: procedure StartSerialDialog;
18759: function IsWow64: boolean;
18760: procedure StartThreadDemo;
18761: Function RGB(R,G,B: Byte): TColor;
18762: Function SendIn(amess: string): boolean;
18763: Procedure maxBox;
18764: Function AspectRatio(aWidth, aHeight: Integer): String;
18765: function wget(aURL, afile: string): boolean;
18766: procedure PrintList(Value: TStringList);
18767: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
18768: procedure getEnvironmentInfo;
18769: procedure AntiFreeze;
18770: function getBitmap(apath: string): TBitmap;
18771: procedure ShowMessageBig(const aText : string);
18772: function YesNoDialog(const ACaption, AMsg: string): boolean;
18773: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
18774: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
18775: //function myStrToBytes(const Value: String): TBytes;

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18776: //function myBytesToStr(const Value: TBytes): String;
18777: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18778: function getBitmap(apath: string): TBitmap;
18779: procedure ShowMessageBig(const aText : string);
18780: Function StrToBytes(const Value: String): TBytes;
18781: Function BytesToStr(const Value: TBytes): String;
18782: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18783: function ReverseDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
18784: function FindInPaths(const fileName, paths : String) : String;
18785: procedure initHexArray(var hexn: THexArray);
18786: function josephusG(n,k: integer; var graphout: string): integer;
18787: function isPowerOf2(num: int64): boolean;
18788: function powerOf2(exponent: integer): int64;
18789: function getBigPI: string;
18790: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
18791: function GetASCIILine: string;
18792: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
18793:                               pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
18794: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
18795: procedure AddComplexSoundObjectToList(newf,newp,newa,neww:integer; freqlist: TStrings);
18796: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
18797: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
18798: function isKeyPressed: boolean;
18799: function Keypress: boolean;
18800: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
18801: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
18802: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
18803: function GetOSName: string;
18804: function GetOSVersion: string;
18805: function GetOSNumber: string;
18806: function getEnvironmentString: string;
18807: procedure StrReplace(var Str: String; Old, New: String);
18808: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18809: function getTeamViewerID: string;
18810: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
18811: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
18812: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
18813: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
18814: function StartSocketService: Boolean;
18815: procedure StartSocketServiceForm;
18816: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
18817: function GetFileList1(apath: string): TStringlist;
18818: procedure LetFileList(FileList: TStringlist; apath: string);
18819: procedure StartWeb(auRl: string);
18820: function GetTodayFiles(startdir, amask: string): TStringlist;
18821: function PortTCPISOpen(dwPort: Word; ipAddressStr: String): boolean;
18822: function JavahashCode(val: string): Integer;
18823: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
18824: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
18825: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
18826: Procedure HideWindowForSeconds2(secs: integer; appHandle, aSelf: TForm); { //3 seconds}
18827: Procedure ConvertToGray(Cnv: TCanvas);
18828: function GetFileDate(aFile:string; aWithTime:Boolean):string;
18829: procedure ShowMemory;
18830: function ShowMemory2: string;
18831: function getHostIP: string;
18832: procedure ShowBitmap(bmap: TBitmap);
18833: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
18834: function CreateDBGridForm(dblist: TStringList): TListbox;
18835: function isService: boolean;
18836: function isApplication: boolean;
18837: function isTerminalSession: boolean;
18838:
18839:
18840: // News of 3.9.8 up
18841: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18842: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18843: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18844: JvChart - TJvChart Component - 2009 Public
18845: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
18846: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
18847: TADOQuery.SQL.Add() fixed, ShlwAPI extensions, Indy HTTPHeader Extensions
18848: DMath DLL included incl. Demos
18849: Interface Navigator menu/View/Intf Navigator
18850: Unit Explorer menu/Debug/Units Explorer
18851: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maxBox
18852: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
18853: Script History to 9 Files WebServer light /Options/Addons/WebServer
18854: Full Text Finder, JVSimLogic Simulator Package
18855: Halt-Stop Program in Menu, WebServer2, Stop Event ,
18856: Conversion Routines, Prebuild Forms, CodeSearch
18857: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18858: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18859: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18860: JvChart - TJvChart Component - 2009 Public, mXGames, JvgXMLSerializer, TJvPaintFX
18861: Compress-Decompress Zip, Services Tutorial22, Synapse framework, PDFLib
18862: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
18863: IDE Reflection API, Session Service Shell S3

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18864: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
18865: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
18866: arduino map() function, PRandom Generator
18867: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
18868: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
18869: REST Test Lib, Multilang Component, Forth Interpreter
18870: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
18871: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
18872: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18873: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18874: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
18875: QRCode Service, add more CFunctions like CDatetime of Synapse
18876: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
18877: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
18878: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
18879: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
18880: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
18881: BOLD Package, Indy Package5, maTRIX. MATHEMAX
18882: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
18883: emax layers: system-package-component-unit-class-function-block
18884: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
18885: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
18886: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
18887: OpenGL Game Demo: ..Options/Add Ons/Reversi
18888: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
18889: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
18890: 7% performance gain (hot spot profiling)
18891: PEP -Pascal Education Program, GSM Module, CGI, PHP Runner
18892: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
18893: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
18894: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
18895:
18896: add routines in 3.9.7.5
18897: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEexec);
18898: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEexec);
18899: 069: procedure RIRegister_IdStrings_Routines(S: TPSEexec);
18900: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEexec);
18901: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEexec);
18902: 374: procedure RIRegister_SerDlgs_Routines(S: TPSEexec);
18903: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEexec);
18904:
18905: ////////////////////////////// TestUnits //////////////////////////////
18906: SelftestPEM;
18907: SelfTestCFundamentUtils;
18908: SelfTestCFileUtils;
18909: SelfTestCDateTime;
18910: SelfTestCTimer;
18911: SelfTestCRandom;
18912: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter'
18913:             Assert(WinPathToUnixPath('\c\d\f') = '/c/d/f', 'WinPathToUnixPath'
18914:
18915: // Note: There's no need for installing a client certificate in the
18916: // webbrowser. The server asks the webbrowser to send a certificate but
18917: // if nothing is installed the software will work because the server
18918: // doesn't check to see if a client certificate was supplied. If you want you can install:
18919:
18920: // file: c_cacert.p12
18921: // password: c_cakey
18922:
18923: TGraphicControl = class(TControl)
18924: private
18925:   FCanvas: TCanvas;
18926:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
18927: protected
18928:   procedure Paint; virtual;
18929:   property Canvas: TCanvas read FCanvas;
18930: public
18931:   constructor Create(AOwner: TComponent); override;
18932:   destructor Destroy; override;
18933: end;
18934:
18935: TCustomControl = class(TWinControl)
18936: private
18937:   FCanvas: TCanvas;
18938:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
18939: protected
18940:   procedure Paint; virtual;
18941:   procedure PaintWindow(DC: HDC); override;
18942:   property Canvas: TCanvas read FCanvas;
18943: public
18944:   constructor Create(AOwner: TComponent); override;
18945:   destructor Destroy; override;
18946: end;
18947: RegisterPublishedProperties;
18948: ('ONCHANGE', 'TNotifyEvent', iptrw);
18949: ('ONCLICK', 'TNotifyEvent', iptrw);
18950: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
18951: ('ONENTER', 'TNotifyEvent', iptrw);
18952: ('ONEXIT', 'TNotifyEvent', iptrw);

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18953:     ('ONKEYDOWN', 'TKeyEvent', iptrw);
18954:     ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
18955:     ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
18956:     ('ONMOUSEMOVE', 'TMouseMoveEvent', iptrw);
18957:     ('ONMOUSEUP', 'TMouseEvent', iptrw);
18958: //***** // To stop the while loop, click on Options>Show Include (boolean switch)!
18959: Control a loop in a script with a form event:
18960: IncludeON; //control the while loop
18961: while maxform1.ShowInclude1.checked do begin //menu event Options>Show Include
18962:
18963: //-----
18964: //*****mX4 ini-file Configuration*****
18965: //-----
18966: //-----
18967: using config file maxboxdef.ini      menu/Help/Config File
18968:
18969: //*** Definitions for maxBox mX3 ***
18970: [FORM]
18971: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
18972: FONTSIZE=14
18973: EXTENSION=txt
18974: SCREENX=1386
18975: SCREENY=1077
18976: MEMHEIGHT=350
18977: PRINTFONT=Courier New //GUI Settings
18978: LINENUMBERS=Y //line numbers at gutter in editor at left side
18979: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! -menu Debug>Show Last Exceptions
18980: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
18981: BOOTSCRIPT=Y //enabling load a boot script
18982: MEMORYREPORT=Y //shows memory report on closing maxBox
18983: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
18984: NAVIGATOR=N //shows function list at the right side of editor
18985: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
18986: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
18987: [WEB]
18988: IPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
18989: IPHOST=192.168.1.53
18990: ROOTCERT=filepathY
18991: SCERT=filepathY
18992: RSAKEY=filepathY
18993: VERSIONCHECK=Y
18994:
18995: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
18996:
18997: Also possible to set report memory in script to override ini setting
18998: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
18999:
19000:
19001: After Change the ini file you can reload the file with ..../Help/Config Update
19002:
19003: //-----
19004: //*****mX4 maildef.ini ini-file Configuration*****
19005: //-----
19006: //*** Definitions for maxMail ***
19007: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
19008: [MAXMAIL]
19009: HOST=getmail.softwareschule.ch
19010: USER=mailusername
19011: PASS=password
19012: PORT=110
19013: SSL=Y
19014: BODY=Y
19015: LAST=5
19016:
19017: ADO Connection String:
19018: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
19019:
19020: OpenSSL Lib: unit ssl_openssl_lib;
19021: {$IFDEF CIL}
19022: const
19023: {$IFDEF LINUX}
19024: DLLSSLLName = 'libssl.so';
19025: DLLUtilName = 'libcrypto.so';
19026: {$ELSE}
19027: DLLSSLLName = 'ssleay32.dll';
19028: DLLUtilName = 'libeay32.dll';
19029: {$ENDIF}
19030: {$ELSE}
19031: var
19032: {$IFNDEF MSWINDOWS}
19033: {$IFDEF DARWIN}
19034: DLLSSLLName: string = 'libssl.dylib';
19035: DLLUtilName: string = 'libcrypto.dylib';
19036: {$ELSE}
19037: DLLSSLLName: string = 'libssl.so';
19038: DLLUtilName: string = 'libcrypto.so';
19039: {$ENDIF}
19040: {$ELSE}
19041: DLLSSLLName: string = 'ssleay32.dll';

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19042: DLLSSLName2: string = 'libssl32.dll';
19043: DLLUtilName: string = 'libeay32.dll';
19044: {$ENDIF}
19045: {$ENDIF}
19046:
19047:
19048: //-----
19049: //*****mX4 Macro Tags *****
19050: //-----
19051:
19052: asm #name #hostmAPSN2APSN21le, #head,max: APSN21: 04.01.2014 19:05:50
19053: E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
19054: //Tag Macros
19055:
19056: asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
19057:
19058: //Tag Macros
19059: 10188: SearchAndCopy(memo1.lines, '#name', getUserNameWin, 11);
19060: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
19061: 10190: SearchAndCopy(memo1.lines, '#host', getComputernameWin, 11);
19062: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
19063: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
19064: 10199: SearchAndCopy(memo1.lines, '#fils', fname + '$SHA1(Act_Filename), 11);
19065: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
19066: 10194: SearchAndCopy(memo1.lines, '#perf', perftime, 11);
19067: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
19068: [getUserNameWin, getComputernameWin, datetimetoStr(now),
19069: 10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s: %s %s',
19070: 10197: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename], 11);
19071: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename], 11);
19072: 10198: SearchAndCopy(memo1.lines, '#tech', Format('perf: %s threads: %d %s %s',
19073: [perftime, numprocesssthreads, getAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
19074: 10298: SearchAndCopy(memo1.lines, '#net', Format('DNS: %s; local IPs: %s; local IP: %s',
19075: [getDNS, GetLocalIPs, getAddress(getComputerNameWin)]), 10);
19076:
19077: ##tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
19078:
19079: //Replace Macros
19080: SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
19081: SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
19082: SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
19083: SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPATH, 9);
19084: SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
19085: SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+'Source', 8);
19086:
19087: SearchAndCopy(memo1.lines, '#tech!perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19088: [perftime,numprocesssthreads,address(getComputerNameWin),timetoStr(time),mbversion]), 11);
19089: ##tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19090: SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt
19091:
19092: //-----
19093: //*****mX4 ToDo List Tags ..../Help/ToDo List*****
19094: //-----
19095:
19096: while I < sl.Count do begin
19097: //    if MatchesMask(sl[I], '*/? TODO ([a-z0-9_]*#[1-9#]*:*)' ) then
19098:    if MatchesMask(sl[I], '*/? TODO (?*#?#)*:*)' ) then
19099:        BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
19100:    else if MatchesMask(sl[I], '*/? DONE (?*#?#)*:*)' ) then
19101:        BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
19102:    else if MatchesMask(sl[I], '*/? TODO (#?#)*:*)' ) then
19103:        BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
19104:    else if MatchesMask(sl[I], '*/? DONE (#?#)*:*)' ) then
19105:        BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
19106:    else if MatchesMask(sl[I], '*/*?TODO*:*)' ) then
19107:        BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
19108:    else if MatchesMask(sl[I], '*/*?DONE*:*)' ) then
19109:        BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
19110:    Inc(I);
19111: end;
19112:
19113:
19114: //-----
19115: //*****mX4 Public Tools API *****
19116: //-----
19117: file : unit uPSI_fMain.pas;           {$TAP} Open Tools API Catalog
19118: // Those functions concern the editor and preprocessor, all of the IDE
19119: Example: Call it with maxform1.Info1Click(self)
19120: Note: Call all Methods with maxForm1., e.g.:
19121:           maxForm1.ShellStyle1Click(self);
19122:
19123: procedure SIRegister_fMain(CL: TPPascalCompiler);
19124: begin
19125:   Const ('BYTECODE','String bytecode.txt'
19126:   Const ('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT')
19127:   Const ('PSMODEL','String PS Modelfiles (*.uc)|*.UC
19128:   Const ('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS
19129:   Const ('PSINC','String PS Includes (*.inc)|*.INC

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19130: Const('DEFFILENAME','String 'firstdemo.txt
19131: Const('DEFINIFILE','String 'maxboxdef.ini
19132: Const('EXCEPTLOGFILE','String 'maxboxerrorlog.txt
19133: Const('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt
19134: Const('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf
19135: Const('ALLOBJECTSLIST','String 'docs\VCL.pdf
19136: Const('ALLRESOURCELIST','String 'docs\upsi_allresourcelist.txt
19137: Const('ALLUNITLIST','String 'docs\maxbox3_9.xml');
19138: Const('INCLUDEBOX','String 'pas_includebox.inc
19139: Const('BOOTSCRIPT','String 'maxbootscript.txt
19140: Const('MBVERSION','String '3.9.9.96
19141: Const('VERSION','String'3.9.9.96
19142: Const('MBVER','String '399
19143: Const('MBVER1','Integer'(399);
19144: Const('MBVERIALL','Integer'(39996);
19145: Const('EXENAME','String 'maxBox3.exe
19146: Const('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm
19147: Const('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt
19148: Const('MXINTERNETCHECK','String 'www.ask.com
19149: Const('MXMAIL','String 'max@kleiner.com
19150: Const('TAB','Char #$09);
19151: Const('CODECOMPLETION','String 'bds_delphi.dci
19152: SIRegister_TMaxForm1(CL);
19153: end;
19154:
19155: with FindClass('TForm'),'TMaxForm1') do begin
19156:   memo2', 'TMemo', iptrw);
19157:   memo1', 'TSynMemo', iptrw);
19158:   CBlSCLList', 'TComboBox', iptrw);
19159:   mxNavigator', 'TComboBox', iptrw);
19160:   IPHost', 'string', iptrw);
19161:   IPPort', 'integer', iptrw);
19162:   COMPort', 'integer', iptrw); //3.9.6.4
19163:   Splitter1', 'TSplitter', iptrw);
19164:   PSSScript', 'TPSScript', iptrw);
19165:   PS3DllPlugin', 'TPSDllPlugin', iptrw);
19166:   MainMenuItem1', 'TMainMenu', iptrw);
19167:   Program1', 'TMenuItem', iptrw);
19168:   Compile1', 'TMenuItem', iptrw);
19169:   Files1', 'TMenuItem', iptrw);
19170:   open1', 'TMenuItem', iptrw);
19171:   Save2', 'TMenuItem', iptrw);
19172:   Options1', 'TMenuItem', iptrw);
19173:   Savebefore1', 'TMenuItem', iptrw);
19174:   Largefont1', 'TMenuItem', iptrw);
19175:   sBytecode1', 'TMenuItem', iptrw);
19176:   Saveas3', 'TMenuItem', iptrw);
19177:   Clear1', 'TMenuItem', iptrw);
19178:   Slinenumbers1', 'TMenuItem', iptrw);
19179:   About1', 'TMenuItem', iptrw);
19180:   Search1', 'TMenuItem', iptrw);
19181:   SynPasSyn1', 'TSynPasSyn', iptrw);
19182:   memo1', 'TSynMemo', iptrw);
19183:   SynEditSearch1', 'TSynEditSearch', iptrw);
19184:   WordWrap1', 'TMenuItem', iptrw);
19185:   XPMManifest1', 'TXPMManifest', iptrw);
19186:   SearchNext1', 'TMenuItem', iptrw);
19187:   Replace1', 'TMenuItem', iptrw);
19188:   PSImport_Controls1', 'TPSImport_Controls', iptrw);
19189:   PSImport_Classes1', 'TPSImport_Classes', iptrw);
19190:   ShowInclude1', 'TMenuItem', iptrw);
19191:   SynEditPrint1', 'TSynEditPrint', iptrw);
19192:   Printout1', 'TMenuItem', iptrw);
19193:   mnPrintColors1', 'TMenuItem', iptrw);
19194:   dlgFilePrint', 'TPrintDialog', iptrw);
19195:   dlgPrintFont1', 'TFontDialog', iptrw);
19196:   mnuPrintFont1', 'TMenuItem', iptrw);
19197:   Include1', 'TMenuItem', iptrw);
19198:   CodeCompletionList1', 'TMenuItem', iptrw);
19199:   IncludeList1', 'TMenuItem', iptrw);
19200:   ImageList1', 'TImageList', iptrw);
19201:   ImageList2', 'TImageList', iptrw);
19202:   CoolBar1', 'TCoolBar', iptrw);
19203:   ToolBar1', 'TToolBar', iptrw);
19204:   tbtnLoad', 'TToolButton', iptrw);
19205:   ToolButton2', 'TToolButton', iptrw);
19206:   tbtnFind', 'TToolButton', iptrw);
19207:   tbtnCompile', 'TToolButton', iptrw);
19208:   tbtnTrans', 'TToolButton', iptrw);
19209:   tbtnUseCase', 'TToolButton', iptrw); //3.8
19210:   toolbtnTutorial', 'TToolButton', iptrw);
19211:   tbtn6res', 'TToolButton', iptrw);
19212:   ToolButton5', 'TToolButton', iptrw);
19213:   ToolButton1', 'TToolButton', iptrw);
19214:   ToolButton3', 'TToolButton', iptrw);
19215:   statusBar1', 'TStatusBar', iptrw);
19216:   SaveOutput1', 'TMenuItem', iptrw);
19217:   ExportClipboard1', 'TMenuItem', iptrw);
19218:   Close1', 'TMenuItem', iptrw);

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19219: Manuall', 'TMenuItem', iptrw);
19220: About2', 'TMenuItem', iptrw);
19221: loadLastfile1', 'TMenuItem', iptrw);
19222: imglogo', 'TImage', iptrw);
19223: cedebbug', 'TPSScriptDebugger', iptrw);
19224: debugPopupMenu1', 'TPopupMenu', iptrw);
19225: BreakPointMenu', 'TMenuItem', iptrw);
19226: Decompile1', 'TMenuItem', iptrw);
19227: StepInto1', 'TMenuItem', iptrw);
19228: StepOut1', 'TMenuItem', iptrw);
19229: Reset1', 'TMenuItem', iptrw);
19230: DebugRun1', 'TMenuItem', iptrw);
19231: PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
19232: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
19233: PSImport_Forms1', 'TPSImport_Forms', iptrw);
19234: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
19235: tutorial4', 'TMenuItem', iptrw);
19236: ExporttoClipboard1', 'TMenuItem', iptrw);
19237: ImportfromClipboard1', 'TMenuItem', iptrw);
19238: N4', 'TMenuItem', iptrw);
19239: N5', 'TMenuItem', iptrw);
19240: N6', 'TMenuItem', iptrw);
19241: ImportfromClipboard2', 'TMenuItem', iptrw);
19242: tutorial1', 'TMenuItem', iptrw);
19243: N7', 'TMenuItem', iptrw);
19244: ShowSpecChars1', 'TMenuItem', iptrw);
19245: OpenDirectory1', 'TMenuItem', iptrw);
19246: procMess', 'TMenuItem', iptrw);
19247: btnUseCase', 'TToolbutton', iptrw);
19248: ToolButton7', 'TToolButton', iptrw);
19249: EditFont1', 'TMenuItem', iptrw);
19250: UseCase1', 'TMenuItem', iptrw);
19251: tutorial21', 'TMenuItem', iptrw);
19252: OpenUseCase1', 'TMenuItem', iptrw);
19253: PSImport_DB1', 'TPSImport_DB', iptrw);
19254: tutorial31', 'TMenuItem', iptrw);
19255: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
19256: HTMLSyntax1', 'TMenuItem', iptrw);
19257: ShowInterfaces1', 'TMenuItem', iptrw);
19258: Tutorial5', 'TMenuItem', iptrw);
19259: AllFunctionsList1', 'TMenuItem', iptrw);
19260: ShowLastException1', 'TMenuItem', iptrw);
19261: PlayMP31', 'TMenuItem', iptrw);
19262: SynTeXSyn1', 'TSynTeXSyn', iptrw);
19263: texSyntax1', 'TMenuItem', iptrw);
19264: N8', 'TMenuItem', iptrw);
19265: GetEMails1', 'TMenuItem', iptrw);
19266: SynCppSyn1', 'TSynCppSyn', iptrw);
19267: CSyntax1', 'TMenuItem', iptrw);
19268: Tutorial6', 'TMenuItem', iptrw);
19269: New1', 'TMenuItem', iptrw);
19270: AllObjectsList1', 'TMenuItem', iptrw);
19271: LoadBytecode1', 'TMenuItem', iptrw);
19272: CipherFile1', 'TMenuItem', iptrw);
19273: N9', 'TMenuItem', iptrw);
19274: N10', 'TMenuItem', iptrw);
19275: Tutorial11', 'TMenuItem', iptrw);
19276: Tutorial71', 'TMenuItem', iptrw);
19277: UpdateService1', 'TMenuItem', iptrw);
19278: PascalSchool1', 'TMenuItem', iptrw);
19279: Tutorial81', 'TMenuItem', iptrw);
19280: DelphiSite1', 'TMenuItem', iptrw);
19281: Output1', 'TMenuItem', iptrw);
19282: TerminalStyle1', 'TMenuItem', iptrw);
19283: ReadOnly1', 'TMenuItem', iptrw);
19284: ShellStyle1', 'TMenuItem', iptrw);
19285: BigScreen1', 'TMenuItem', iptrw);
19286: Tutorial91', 'TMenuItem', iptrw);
19287: SaveOutput2', 'TMenuItem', iptrw);
19288: N11', 'TMenuItem', iptrw);
19289: SaveScreenshot', 'TMenuItem', iptrw);
19290: Tutorial101', 'TMenuItem', iptrw);
19291: SQLSyntax1', 'TMenuItem', iptrw);
19292: SynSQLSyn1', 'TSynSQLSyn', iptrw);
19293: Console1', 'TMenuItem', iptrw);
19294: SynXMLSyn1', 'TSynXMLSyn', iptrw);
19295: XMLSyntax1', 'TMenuItem', iptrw);
19296: ComponentCount1', 'TMenuItem', iptrw);
19297: NewInstance1', 'TMenuItem', iptrw);
19298: toolbarTutorial', 'TToolbutton', iptrw);
19299: Memory1', 'TMenuItem', iptrw);
19300: SynJavaSyn1', 'TSynJavaSyn', iptrw);
19301: JavaSyntax1', 'TMenuItem', iptrw);
19302: SyntaxCheck1', 'TMenuItem', iptrw);
19303: Tutorial10Statistics1', 'TMenuItem', iptrw);
19304: ScriptExplorer1', 'TMenuItem', iptrw);
19305: FormOutput1', 'TMenuItem', iptrw);
19306: ArduinoDump1', 'TMenuItem', iptrw);
19307: AndroidDump1', 'TMenuItem', iptrw);
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19308: GotoEnd1', 'TMenuItem', iptrw);
19309: AllResourceList1', 'TMenuItem', iptrw);
19310: ToolButton4', 'TToolButton', iptrw);
19311: btn6res', 'TToolButton', iptrw);
19312: Tutorial11Forms1', 'TMenuItem', iptrw);
19313: Tutorial12SQL1', 'TMenuItem', iptrw);
19314: ResourceExplore1', 'TMenuItem', iptrw);
19315: Info1', 'TMenuItem', iptrw);
19316: N12', 'TMenuItem', iptrw);
19317: CryptoBox1', 'TMenuItem', iptrw);
19318: Tutorial13Ciphering1', 'TMenuItem', iptrw);
19319: CipherFile2', 'TMenuItem', iptrw);
19320: N13', 'TMenuItem', iptrw);
19321: ModulesCount1', 'TMenuItem', iptrw);
19322: AddOns2', 'TMenuItem', iptrw);
19323: N4GewinntGame1', 'TMenuItem', iptrw);
19324: DocuforAddOns1', 'TMenuItem', iptrw);
19325: Tutorial14Asyncl1', 'TMenuItem', iptrw);
19326: Lessons15Review1', 'TMenuItem', iptrw);
19327: SynPHPSyn1', 'TSynPHPSyn', iptrw);
19328: PHPSyntax1', 'TMenuItem', iptrw);
19329: Breakpoint1', 'TMenuItem', iptrw);
19330: SerialRS2321', 'TMenuItem', iptrw);
19331: N14', 'TMenuItem', iptrw);
19332: SynCSSyn1', 'TSynCSSyn', iptrw);
19333: CSyntax2', 'TMenuItem', iptrw);
19334: Calculator1', 'TMenuItem', iptrw);
19335: btnSerial', 'TToolButton', iptrw);
19336: ToolButton8', 'TToolbutton', iptrw);
19337: Tutorial151', 'TMenuItem', iptrw);
19338: N15', 'TMenuItem', iptrw);
19339: N16', 'TMenuItem', iptrw);
19340: ControlBar1', 'TControlBar', iptrw);
19341:ToolBar2', 'TToolBar', iptrw);
19342: BtnOpen', 'TToolButton', iptrw);
19343: BtnSave', 'TToolButton', iptrw);
19344: BtnPrint', 'TToolButton', iptrw);
19345: BtnColors', 'TToolButton', iptrw);
19346: btnClassReport', 'TToolButton', iptrw);
19347: BtnRotateEight', 'TToolButton', iptrw);
19348: BtnFullScreen', 'TToolButton', iptrw);
19349: BtnFitToWindowSize', 'TToolButton', iptrw);
19350: BtnZoomMinus', 'TToolButton', iptrw);
19351: BtnZoomPlus', 'TToolButton', iptrw);
19352: Panel1', 'TPanel', iptrw);
19353: LabelBrettgroesse', 'TLabel', iptrw);
19354: CB1SCList', 'TComboBox', iptrw);
19355: ImageListNormal', 'TImageList', iptrw);
19356: spbtexplore', 'TSpeedButton', iptrw);
19357: spbtexample', 'TSpeedButton', iptrw);
19358: spbsaveas', 'TSpeedButton', iptrw);
19359: imglogobox', 'TImage', iptrw);
19360: EnlargeFont1', 'TMenuItem', iptrw);
19361: EnlargeFont2', 'TMenuItem', iptrw);
19362: ShrinkFont1', 'TMenuItem', iptrw);
19363: ThreadDemo1', 'TMenuItem', iptrw);
19364: HEXEditor1', 'TMenuItem', iptrw);
19365: HEXView1', 'TMenuItem', iptrw);
19366: HEXInspect1', 'TMenuItem', iptrw);
19367: SynExporterHTML1', 'TSynExporterHTML', iptrw);
19368: ExporttoHTML1', 'TMenuItem', iptrw);
19369: ClassCount1', 'TMenuItem', iptrw);
19370: HTMLOutput1', 'TMenuItem', iptrw);
19371: HEXEditor2', 'TMenuItem', iptrw);
19372: Minesweeper1', 'TMenuItem', iptrw);
19373: N17', 'TMenuItem', iptrw);
19374: PicturePuzzle1', 'TMenuItem', iptrw);
19375: sbvc1help', 'TSpeedButton', iptrw);
19376: DependencyWalker1', 'TMenuItem', iptrw);
19377: WebScanner1', 'TMenuItem', iptrw);
19378: View1', 'TMenuItem', iptrw);
19379: mnToolbar1', 'TMenuItem', iptrw);
19380: mnStatusbar2', 'TMenuItem', iptrw);
19381: mnConsole2', 'TMenuItem', iptrw);
19382: mnCoolbar2', 'TMenuItem', iptrw);
19383: mnSplitter2', 'TMenuItem', iptrw);
19384: WebServer1', 'TMenuItem', iptrw);
19385: Tutorial17Server1', 'TMenuItem', iptrw);
19386: Tutorial18Arduinol', 'TMenuItem', iptrw);
19387: SynPerlSyn1', 'TSynPerlSyn', iptrw);
19388: PerlSyntax1', 'TMenuItem', iptrw);
19389: SynPythonSyn1', 'TSynPythonSyn', iptrw);
19390: PythonSyntax1', 'TMenuItem', iptrw);
19391: DMathLibrary1', 'TMenuItem', iptrw);
19392: IntfNavigator1', 'TMenuItem', iptrw);
19393: EnlargeFontConsole1', 'TMenuItem', iptrw);
19394: ShrinkFontConsole1', 'TMenuItem', iptrw);
19395: SetInterfaceList1', 'TMenuItem', iptrw);
19396: popintfList', 'TPopupMenu', iptrw);
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19397: intfAdd1', 'TMenuItem', iptrw);
19398: intfDelete1', 'TMenuItem', iptrw);
19399: intfRefactor1', 'TMenuItem', iptrw);
19400: Defactor1', 'TMenuItem', iptrw);
19401: Tutorial19COMArduino1', 'TMenuItem', iptrw);
19402: Tutorial20Regex', 'TMenuItem', iptrw);
19403: N18', 'TMenuItem', iptrw);
19404: ManualE1', 'TMenuItem', iptrw);
19405: FullTextFinder1', 'TMenuItem', iptrw);
19406: Move1', 'TMenuItem', iptrw);
19407: FractalDemo1', 'TMenuItem', iptrw);
19408: Tutorial21Android1', 'TMenuItem', iptrw);
19409: Tutorial0Function1', 'TMenuItem', iptrw);
19410: SimuLogBox1', 'TMenuItem', iptrw);
19411: OpenExamples1', 'TMenuItem', iptrw);
19412: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
19413: JavaScriptSyntax1', 'TMenuItem', iptrw);
19414: Halt1', 'TMenuItem', iptrw);
19415: CodeSearch1', 'TMenuItem', iptrw);
19416: SynRubySyn1', 'TSynRubySyn', iptrw);
19417: RubySyntax1', 'TMenuItem', iptrw);
19418: Undo1', 'TMenuItem', iptrw);
19419: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
19420: LinuxShellScript1', 'TMenuItem', iptrw);
19421: Rename1', 'TMenuItem', iptrw);
19422: spdcodesearch', 'TSpeedButton', iptrw);
19423: Preview1', 'TMenuItem', iptrw);
19424: Tutorial22Services1', 'TMenuItem', iptrw);
19425: Tutorial23Realtime1', 'TMenuItem', iptrw);
19426: Configuration1', 'TMenuItem', iptrw);
19427: MP3Player1', 'TMenuItem', iptrw);
19428: DLLSpy1', 'TMenuItem', iptrw);
19429: SynURIOpenner1', 'TSynURIOpener', iptrw);
19430: SynURISyn1', 'TSynURISyn', iptrw);
19431: URILinksClicks1', 'TMenuItem', iptrw);
19432: EditReplace1', 'TMenuItem', iptrw);
19433: GotoLine1', 'TMenuItem', iptrw);
19434: ActiveLineColor1', 'TMenuItem', iptrw);
19435: ConfigFile1', 'TMenuItem', iptrw);
19436: SortIntlList', 'TMenuItem', iptrw);
19437: Redo1', 'TMenuItem', iptrw);
19438: Tutorial24CleanCode1', 'TMenuItem', iptrw);
19439: Tutorial25Configuration1', 'TMenuItem', iptrw);
19440: IndentSelection1', 'TMenuItem', iptrw);
19441: UnindentSection1', 'TMenuItem', iptrw);
19442: SkyStyle1', 'TMenuItem', iptrw);
19443: N19', 'TMenuItem', iptrw);
19444: CountWords1', 'TMenuItem', iptrw);
19445: imbookmarkimages', 'TImageList', iptrw);
19446: Bookmark11', 'TMenuItem', iptrw);
19447: N20', 'TMenuItem', iptrw);
19448: Bookmark21', 'TMenuItem', iptrw);
19449: Bookmark31', 'TMenuItem', iptrw);
19450: Bookmark41', 'TMenuItem', iptrw);
19451: SynMultiSyn1', 'TSynMultiSyn', iptrw);
19452:
19453: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
19454: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
19455: Procedure PSScriptCompile( Sender : TPSScript)
19456: Procedure Compile1Click( Sender : TObject)
19457: Procedure PSScriptExecute( Sender : TPSScript)
19458: Procedure open1Click( Sender : TObject)
19459: Procedure Save2Click( Sender : TObject)
19460: Procedure Savebefore1Click( Sender : TObject)
19461: Procedure Largefont1Click( Sender : TObject)
19462: Procedure FormActivate( Sender : TObject)
19463: Procedure SBytecode1Click( Sender : TObject)
19464: Procedure FormKeyPress( Sender : TObject; var Key : Char)
19465: Procedure Saveas3Click( Sender : TObject)
19466: Procedure Clear1Click( Sender : TObject)
19467: Procedure Slinenumbers1Click( Sender : TObject)
19468: Procedure About1Click( Sender : TObject)
19469: Procedure Search1Click( Sender : TObject)
19470: Procedure FormCreate( Sender : TObject)
19471: Procedure MemolReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
19472: var Action : TSynReplaceAction)
19473: Procedure MemolStatusChange( Sender : TObject; Changes : TSynStatusChanges)
19474: Procedure WordWrap1Click( Sender : TObject)
19475: Procedure SearchNext1Click( Sender : TObject)
19476: Procedure Replace1Click( Sender : TObject)
19477: Function PSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FName,Output:String):Bool;
19478: Procedure ShowInclude1Click( Sender : TObject)
19479: Procedure Printout1Click( Sender : TObject)
19480: Procedure mmuPrintFont1Click( Sender : TObject)
19481: Procedure IncludelClick( Sender : TObject)
19482: Procedure FormDestroy( Sender : TObject)
19483: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
19484: Procedure UpdateViewClick( Sender : TObject)
19485: Procedure CodeCompletionList1Click( Sender : TObject)

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19486: Procedure SaveOutput1Click( Sender : TObject )
19487: Procedure ExportClipboard1Click( Sender : TObject )
19488: Procedure Close1Click( Sender : TObject )
19489: Procedure Manual1Click( Sender : TObject )
19490: Procedure LoadLastFile1Click( Sender : TObject )
19491: Procedure Memo1Change( Sender : TObject )
19492: Procedure Decompile1Click( Sender : TObject )
19493: Procedure StepInto1Click( Sender : TObject )
19494: Procedure StepOut1Click( Sender : TObject )
19495: Procedure Reset1Click( Sender : TObject )
19496: Procedure cedebugAfterExecute( Sender : TPSScript )
19497: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
19498: Procedure cedebugCompile( Sender : TPSScript )
19499: Procedure cedebugExecute( Sender : TPSScript )
19500: Procedure cedebugIdle( Sender : TObject )
19501: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal )
19502: Procedure Memo1SpecialLineColors(Sender : TObject; Line:Int; var Special:Boolean;var FG,BG:TColor );
19503: Procedure BreakPointMenuClick( Sender : TObject )
19504: Procedure DebugRun1Click( Sender : TObject )
19505: Procedure tutorial4Click( Sender : TObject )
19506: Procedure ImportfromClipboard1Click( Sender : TObject )
19507: Procedure ImportfromClipboard2Click( Sender : TObject )
19508: Procedure tutorial1Click( Sender : TObject )
19509: Procedure ShowSpecChars1Click( Sender : TObject )
19510: Procedure StatusBar1DblClick( Sender : TObject )
19511: Procedure PSScriptLine( Sender : TObject )
19512: Procedure OpenDirectory1Click( Sender : TObject )
19513: Procedure procMessClick( Sender : TObject )
19514: Procedure btnUseCaseClick( Sender : TObject )
19515: Procedure EditFont1Click( Sender : TObject )
19516: Procedure tutorial21Click( Sender : TObject )
19517: Procedure tutorial31Click( Sender : TObject )
19518: Procedure HTMLSyntax1Click( Sender : TObject )
19519: Procedure ShowInterfaces1Click( Sender : TObject )
19520: Procedure Tutorial5Click( Sender : TObject )
19521: Procedure ShowLastException1Click( Sender : TObject )
19522: Procedure PlayMP31Click( Sender : TObject )
19523: Procedure AllFunctionsList1Click( Sender : TObject )
19524: Procedure texSyntax1Click( Sender : TObject )
19525: Procedure GetEMails1Click( Sender : TObject )
19526: procedure DelphiSite1Click(Sender: TObject);
19527: procedure TerminalStyle1Click(Sender: TObject);
19528: procedure ReadOnly1Click(Sender: TObject);
19529: procedure ShellStyle1Click(Sender: TObject);
19530: procedure Console1Click(Sender: TObject); //3.2
19531: procedure BigScreen1Click(Sender: TObject);
19532: procedure Tutorial91Click(Sender: TObject);
19533: procedure SaveScreenshotClick(Sender: TObject);
19534: procedure Tutorial101Click(Sender: TObject);
19535: procedure SQLSyntax1Click(Sender: TObject);
19536: procedure XMLSyntax1Click(Sender: TObject);
19537: procedure ComponentCount1Click(Sender: TObject);
19538: procedure NewInstance1Click(Sender: TObject);
19539: procedure CSyntax1Click(Sender: TObject);
19540: procedure Tutorial6Click(Sender: TObject);
19541: procedure New1Click(Sender: TObject);
19542: procedure AllObjectsList1Click(Sender: TObject);
19543: procedure LoadBytecode1Click(Sender: TObject);
19544: procedure CipherFile1Click(Sender: TObject); //V3.5
19545: procedure NewInstance1Click(Sender: TObject);
19546: procedure toolbtnTutorialClick(Sender: TObject);
19547: procedure Memory1Click(Sender: TObject);
19548: procedure JavaSyntax1Click(Sender: TObject);
19549: procedure SyntaxCheck1Click(Sender: TObject);
19550: procedure ScriptExplorer1Click(Sender: TObject);
19551: procedure FormOutput1Click(Sender: TObject); //V3.6
19552: procedure GotoEnd1Click(Sender: TObject);
19553: procedure AllResourceList1Click(Sender: TObject);
19554: procedure tbtn6resClick(Sender: TObject); //V3.7
19555: procedure Info1Click(Sender: TObject);
19556: procedure Tutorial10Statistics1Click(Sender: TObject);
19557: procedure Tutorial11Forms1Click(Sender: TObject);
19558: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
19559: procedure ResourceExplore1Click(Sender: TObject);
19560: procedure Info1Click(Sender: TObject);
19561: procedure CryptoBox1Click(Sender: TObject);
19562: procedure ModulesCount1Click(Sender: TObject);
19563: procedure N4GewinntGame1Click(Sender: TObject);
19564: procedure PHPSyntax1Click(Sender: TObject);
19565: procedure SerialRS2321Click(Sender: TObject);
19566: procedure CSyntax2Click(Sender: TObject);
19567: procedure Calculator1Click(Sender: TObject);
19568: procedure Tutorial13Ciphering1Click(Sender: TObject);
19569: procedure Tutorial14Async1Click(Sender: TObject);
19570: procedure PHPSyntax1Click(Sender: TObject);
19571: procedure BtnZoomPlusClick(Sender: TObject);
19572: procedure BtnZoomMinusClick(Sender: TObject);
19573: procedure btnClassReportClick(Sender: TObject);
19574: procedure ThreadDemo1Click(Sender: TObject);

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19575: procedure HEXView1Click(Sender: TObject);
19576: procedure ExporttoHTML1Click(Sender: TObject);
19577: procedure Minesweeper1Click(Sender: TObject);
19578: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
19579: procedure sbvclhelpClick(Sender: TObject);
19580: procedure DependencyWalker1Click(Sender: TObject);
19581: procedure CB1SCListDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
19582: procedure WebScanner1Click(Sender: TObject);
19583: procedure mnToolbar1Click(Sender: TObject);
19584: procedure mnStatusbar2Click(Sender: TObject);
19585: procedure mnConsole2Click(Sender: TObject);
19586: procedure mnCoolbar2Click(Sender: TObject);
19587: procedure mnSplitter2Click(Sender: TObject);
19588: procedure WebServer1Click(Sender: TObject);
19589: procedure PerlSyntax1Click(Sender: TObject);
19590: procedure PythonSyntax1Click(Sender: TObject);
19591: procedure DMathLibrary1Click(Sender: TObject);
19592: procedure IntfNavigator1Click(Sender: TObject);
19593: procedure FullTextFinder1Click(Sender: TObject);
19594: function AppName: string;
19595: function ScriptName: string;
19596: function LastName: string;
19597: procedure FractalDemo1Click(Sender: TObject);
19598: procedure SimulogBox1Click(Sender: TObject);
19599: procedure OpenExamples1Click(Sender: TObject);
19600: procedure Halt1Click(Sender: TObject);
19601: procedure Stop;
19602: procedure CodeSearch1Click(Sender: TObject);
19603: procedure RubySyntax1Click(Sender: TObject);
19604: procedure Undo1Click(Sender: TObject);
19605: procedure LinuxShellsScript1Click(Sender: TObject);
19606: procedure WebScannerDirect(urls: string);
19607: procedure WebScanner(urls: string);
19608: procedure LoadInterfaceList2;
19609: procedure DLLSpylClick(Sender: TObject);
19610: procedure Memo1DblClick(Sender: TObject);
19611: procedure URILinksClicks1Click(Sender: TObject);
19612: procedure GotoLine1Click(Sender: TObject);
19613: procedure ConfigFile1Click(Sender: TObject);
19614: Procedure SortIntflistClick( Sender : TObject )
19615: Procedure Redo1Click( Sender : TObject )
19616: Procedure Tutorial24CleanCode1Click( Sender : TObject )
19617: Procedure IndentSelection1Click( Sender : TObject )
19618: Procedure UnindentSection1Click( Sender : TObject )
19619: Procedure SkyStyle1Click( Sender : TObject )
19620: Procedure CountWords1Click( Sender : TObject )
19621: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark );
19622: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
19623: Procedure Bookmark11Click( Sender : TObject );
19624: Procedure Bookmark21Click( Sender : TObject );
19625: Procedure Bookmark31Click( Sender : TObject );
19626: Procedure Bookmark41Click( Sender : TObject );
19627: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
19628: 'STATMemoryReport', 'boolean', iptrw);
19629: 'IPPort', 'integer', iptrw);
19630: 'COMPPort', 'integer', iptrw);
19631: 'lbintflist', 'TListBox', iptrw);
19632: Function GetStatChange : boolean;
19633: Procedure SetStatChange( vstat : boolean );
19634: Function GetActFileName : string;
19635: Procedure SetActFileName( vname : string );
19636: Function GetLastFileName : string;
19637: Procedure SetLastFileName( vname : string );
19638: Procedure WebScannerDirect( urls : string );
19639: Procedure LoadInterfaceList2;
19640: Function GetStatExecuteShell : boolean;
19641: Procedure DoEditorExecuteCommand( EditorCommand : word );
19642: function GetActiveLineColor: TColor;
19643: procedure SetActiveLineColor(acolor: TColor);
19644: procedure ScriptListbox1Click(Sender: TObject);
19645: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
19646: procedure EnlargeGutter1Click(Sender: TObject);
19647: procedure Tetris1Click(Sender: TObject);
19648: procedure ToDoList1Click(Sender: TObject);
19649: procedure ProcessList1Click(Sender: TObject);
19650: procedure MetricReport1Click(Sender: TObject);
19651: procedure ProcessList1Click(Sender: TObject);
19652: procedure TCP.Sockets1Click(Sender: TObject);
19653: procedure ConfigUpdate1Click(Sender: TObject);
19654: procedure ADOWorkbench1Click(Sender: TObject);
19655: procedure SocketServer1Click(Sender: TObject);
19656: procedure FormDemolClick(Sender: TObject);
19657: procedure Richedit1Click(Sender: TObject);
19658: procedure SimpleBrowser1Click(Sender: TObject);
19659: procedure DOSShell1Click(Sender: TObject);
19660: procedure SynExport1Click(Sender: TObject);
19661: procedure ExporttoRTF1Click(Sender: TObject);
19662: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
19663: procedure SOAPTester1Click(Sender: TObject);

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19664: procedure Sniffer1Click(Sender: TObject);
19665: procedure AutoDetectSyntax1Click(Sender: TObject);
19666: procedure FPilot1Click(Sender: TObject);
19667: procedure PassStyle1Click(Sender: TObject);
19668: procedure Tutorial183RGBLED1Click(Sender: TObject);
19669: procedure ReversilClick(Sender: TObject);
19670: procedure ManualmaxBox1Click(Sender: TObject);
19671: procedure BlaisePascalMagazine1Click(Sender: TObject);
19672: procedure AddToDo1Click(Sender: TObject);
19673: procedure CreateGUID1Click(Sender: TObject);
19674: procedure Tutorial27XML1Click(Sender: TObject);
19675: procedure CreateDLLStub1Click(Sender: TObject);
19676: procedure Tutorial28DLL1Click(Sender: TObject) );
19677: procedure ResetKeyPressed(');
19678: procedure FileChanges1Click(Sender: TObject); );
19679: procedure OpenGLtry1Click(Sender: TObject); );
19680: procedure AllUnitList1Click(Sender: TObject); );
19681: procedure Tutorial29UMLClick(Sender: TObject);
19682: procedure CreateHeader1Click(Sender: TObject);
19683:
19684: //-----
19685: //*****mX4 Editor SynEdit Tools API *****
19686: //-----
19687: procedure SIRegister_TCustomSynEdit(CL: TPSPPascalCompiler);
19688: begin
19689:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
19690:   with FindClass('TCustomControl','TCustomSynEdit') do begin
19691:     Constructor Create(AOwner : TComponent)
19692:     SelStart', 'Integer', iptrw);
19693:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
19694:     Procedure UpdateCaret
19695:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19696:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19697:     Procedure BeginUndoBlock
19698:     Procedure BeginUpdate
19699:     Function CaretInView : Boolean
19700:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
19701:     Procedure Clear
19702:     Procedure ClearAll
19703:     Procedure ClearBookMark( BookMark : Integer )
19704:     Procedure ClearSelection
19705:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
19706:     Procedure ClearUndo
19707:     Procedure CopyToClipboard
19708:     Procedure CutToClipboard
19709:     Procedure DoCopyToClipboard( const SText : string )
19710:     Procedure EndUndoBlock
19711:     Procedure EndUpdate
19712:     Procedure EnsureCursorPosVisible
19713:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
19714:     Procedure FindMatchingBracket
19715:     Function GetMatchingBracket : TBufferCoord
19716:     Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
19717:     Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
19718:     Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
19719:     Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attr : TSynHighlighterAttributes ) : boolean
19720:     Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
19721:       var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes):boolean
19722:     Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
19723:     Function GetWordAtRowCol( const XY : TBufferCoord ) : string
19724:     Procedure GotoBookMark( BookMark : Integer )
19725:     Procedure GotoLineAndCenter( ALine : Integer )
19726:     Function IdentChars : TSynIdentChars
19727:     Procedure InvalidateGutter
19728:     Procedure InvalidateGutterLine( aLine : integer )
19729:     Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
19730:     Procedure InvalidateLine( Line : integer )
19731:     Procedure InvalidateLines( FirstLine, LastLine : integer )
19732:     Procedure InvalidateSelection
19733:     Function IsBookmark( BookMark : integer ) : boolean
19734:     Function IsPointInSelection( const Value : TBufferCoord ) : boolean
19735:     Procedure LockUndo
19736:     Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
19737:     Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
19738:     Function LineToRow( aLine : integer ) : integer
19739:     Function RowToLine( aRow : integer ) : integer
19740:     Function NextWordPos : TBufferCoord
19741:     Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
19742:     Procedure PasteFromClipboard
19743:     Function WordStart : TBufferCoord
19744:     Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
19745:     Function WordEnd : TBufferCoord
19746:     Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
19747:     Function PrevWordPos : TBufferCoord
19748:     Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
19749:     Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
19750:     Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
19751:     Procedure Redo
19752:

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19753: Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent; AHandlerData:pointer );
19754: Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
19755: Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
19756: Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
19757: Procedure SelectAll
19758: Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer )
19759: Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord )
19760: Procedure SetDefaultKeystrokes
19761: Procedure SetSelWord
19762: Procedure SetWordBlock( Value : TBufferCoord )
19763: Procedure Undo
19764: Procedure UnlockUndo
19765: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent )
19766: Procedure AddKeyUpHandler( aHandler : TKeyEvent )
19767: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent )
19768: Procedure AddKeyDownHandler( aHandler : TKeyEvent )
19769: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent )
19770: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent )
19771: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent )
19772: Procedure AddFocusControl( aControl : TWinControl )
19773: Procedure RemoveFocusControl( aControl : TWinControl )
19774: Procedure AddMouseDownHandler( aHandler : TMouseEvent )
19775: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent )
19776: Procedure AddMouseUpHandler( aHandler : TMouseEvent )
19777: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent )
19778: Procedure AddMouseCursorHandler( aHandler : TMouseEvent )
19779: Procedure RemoveMouseCursorHandler( aHandler : TMouseEvent )
19780: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit )
19781: Procedure RemoveLinesPointer
19782: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList )
19783: Procedure UnHookTextBuffer
19784: BlockBegin', 'TBufferCoord', iptrw);
19785: BlockEnd', 'TBufferCoord', iptrw);
19786: CanPaste', 'Boolean', iptr);
19787: CanRedo', 'boolean', iptr);
19788: CanUndo', 'boolean', iptr);
19789: CaretX', 'Integer', iptrw);
19790: CaretY', 'Integer', iptrw);
19791: CaretXY', 'TBufferCoord', iptrw);
19792: ActiveLineColor', 'TColor', iptrw);
19793: DisplayX', 'Integer', iptr);
19794: DisplayY', 'Integer', iptr);
19795: DisplayXY', 'TDisplayCoord', iptr);
19796: DisplayLineCount', 'integer', iptr);
19797: CharsInWindow', 'Integer', iptr);
19798: CharWidth', 'integer', iptr);
19799: Font', 'TFont', iptrw);
19800: GutterWidth', 'Integer', iptr);
19801: Highlighter', 'TSynCustomHighlighter', iptrw);
19802: LeftChar', 'Integer', iptrw);
19803: LineHeight', 'integer', iptr);
19804: LinesInWindow', 'Integer', iptr);
19805: LineText', 'string', iptrw);
19806: Lines', 'TStrings', iptrw);
19807: Marks', 'TSynEditMarkList', iptr);
19808: MaxScrollWidth', 'integer', iptrw);
19809: Modified', 'Boolean', iptrw);
19810: PaintLock', 'Integer', iptr);
19811: ReadOnly', 'Boolean', iptrw);
19812: SearchEngine', 'TSynEditSearchCustom', iptrw);
19813: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
19814: SelTabBlock', 'Boolean', iptr);
19815: SelTabLine', 'Boolean', iptr);
19816: SelText', 'string', iptrw);
19817: StateFlags', 'TSynStateFlags', iptr);
19818: Text', 'string', iptrw);
19819: TopLine', 'Integer', iptrw);
19820: WordatCursor', 'string', iptr);
19821: WordAtMouse', 'string', iptr);
19822: UndoList', 'TSynEditUndoList', iptr);
19823: RedoList', 'TSynEditUndoList', iptr);
19824: OnProcessCommand', 'TPprocessCommandEvent', iptrw);
19825: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
19826: BorderStyle', 'TSynBorderStyle', iptrw);
19827: ExtraLineSpacing', 'integer', iptrw);
19828: Gutter', 'TSynGutter', iptrw);
19829: HideSelection', 'boolean', iptrw);
19830: InsertCaret', 'TSynEditCaretType', iptrw);
19831: InsertMode', 'boolean', iptrw);
19832: IsScrolling', 'Boolean', iptr);
19833: Keystrokes', 'TSynEditKeyStrokes', iptrw);
19834: MaxUndo', 'Integer', iptrw);
19835: Options', 'TSynEditorOptions', iptrw);
19836: OverwriteCaret', 'TSynEditCaretType', iptrw);
19837: RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
19838: ScrollHintColor', 'TColor', iptrw);
19839: ScrollHintFormat', 'TScrollHintFormat', iptrw);
19840: ScrollBars', 'TScrollStyle', iptrw);
19841: SelectedColor', 'TSynSelectedColor', iptrw);

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19842:     SelectionMode', 'TSynSelectionMode', iptrw);
19843:     ActiveSelectionMode', 'TSynSelectionMode', iptrw);
19844:     TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
19845:     WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
19846:     WordWrapGlyph', 'TSynGlyph', iptrw);
19847:     OnChange', 'TNotifyEvent', iptrw);
19848:     OnClearBookmark', 'TPlaceMarkEvent', iptrw);
19849:     OnCommandProcessed', 'TProcessCommandEvent', iptrw);
19850:     OnContextHelp', 'TContextHelpEvent', iptrw);
19851:     OnDropFiles', 'TDropFilesEvent', iptrw);
19852:     OnGutterClick', 'TGutterClickEvent', iptrw);
19853:     OnGutterGetText', 'TGutterGetTextEvent', iptrw);
19854:     OnGutterPaint', 'TGutterPaintEvent', iptrw);
19855:     OnMouseCursor', 'TMouseCursorEvent', iptrw);
19856:     OnPaint', 'TPaintEvent', iptrw);
19857:     OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
19858:     OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
19859:     OnReplaceText', 'TReplaceTextEvent', iptrw);
19860:     OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
19861:     OnStatusChange', 'TStatusChangeEvent', iptrw);
19862:     OnPaintTransient', 'TPaintTransient', iptrw);
19863:     OnScroll', 'TScrollEvent', iptrw);
19864:   end;
19865:   Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
19866:   Function GetPlaceableHighlighters : TSynHighlighterList
19867:   Function EditorCommandToDescrString( Cmd : TSynEditorCommand ) : string
19868:   Function EditorCommandToCodeString( Cmd : TSynEditorCommand ) : string
19869:   Procedure GetEditorCommandValues( Proc : TGetStrProc )
19870:   Procedure GetEditorCommandExtended( Proc : TGetStrProc )
19871:   Function IdentToEditorCommand( const Ident : string; var Cmd : longint ) : boolean
19872:   Function EditorCommandToIdent( Cmd : longint; var Ident : string ) : boolean
19873:   Function ConvertCodeStringToExtended( AString : String ) : String
19874:   Function ConvertExtendedToCodeString( AString : String ) : String
19875:   Function ConvertExtendedToCommand( AString : String ) : TSynEditorCommand
19876:   Function ConvertCodeStringToCommand( AString : String ) : TSynEditorCommand
19877:   Function IndexToEditorCommand( const AIndex : Integer ) : Integer
19878:
19879:   TSynEditorOption =
19880:     eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
19881:     eoAutoIndent,                //Will indent caret on newlines with same amount of leading whitespace as
19882:                               // preceding line
19883:     eoAutoSizeMaxScrollWidth,    //Automatically resizes the MaxScrollWidth property when inserting text
19884:     eoDisableScrollArrows,       //Disables the scroll bar arrow buttons when you can't scroll in that
19885:                               //direction any more
19886:     eoDragDropEditing,           //Allows to select a block of text and drag it within document to another
19887:                               // location
19888:     eoDropFiles,                 //Allows the editor accept OLE file drops
19889:     eoEnhanceHomeKey,            //enhances home key positioning, similar to visual studio
19890:     eoEnhanceEndKey,             //enhances End key positioning, similar to JDeveloper
19891:     eoGroupUndo,                 //When undoing/redoing actions, handle all continous changes the same kind
19892:                               // in one call
19893:     eoHalfPageScroll,            //instead undoing/redoing each command separately
19894:                               //When scrolling with page-up and page-down commands, only scroll a half
19895:                               //page at a time
19896:     eoHideShowScrollbars,        //if enabled, then scrollbars will only show if necessary.
19897:     If you have ScrollPastEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
19898:     eoKeepCaretX,               //When moving through lines w/o cursor Past EOL, keeps X position of cursor
19899:     eoNoCaret,                  //Makes it so the caret is never visible
19900:     eoNoSelection,               //Disables selecting text
19901:     eoRightMouseMovesCursor,    //When clicking with right mouse for popup menu, moves cursor to location
19902:     eoScrollByOneLess,           //Forces scrolling to be one less
19903:     eoScrollHintFollows,         //The scroll hint follows the mouse when scrolling vertically
19904:     eoScrollPastEof,             //Allows the cursor to go past the end of file marker
19905:     eoScrollPastEol,             //Allows cursor to go past last character into white space at end of a line
19906:     eoShowScrollHint,            //Shows a hint of the visible line numbers when scrolling vertically
19907:     eoShowSpecialChars,          //Shows the special Characters
19908:     eoSmartTabDelete,            //similar to Smart Tabs, but when you delete characters
19909:     eoSmartTabs,                 //When tabbing, cursor will go to non-white space character of previous line
19910:     eoSpecialLineDefaultFg,      //disables the foreground text color override using OnSpecialLineColor event
19911:     eoTabIndent,                 //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
19912:     eoTabsToSpaces,              //Converts a tab character to a specified number of space characters
19913:     eoTrimTrailingSpaces,        //Spaces at the end of lines will be trimmed and not saved
19914:
19915:   *****Important Editor Short Cuts*****;
19916: Double click to select a word and count words with highlightning.
19917: Triple click to select a line.
19918: CTRL+SHIFT+click to extend a selection.
19919: Drag with the ALT key down to select columns of text !!!
19920: Drag and drop is supported.
19921: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
19922: Type CTRL+A to select all.
19923: Type CTRL+N to set a new line.
19924: Type CTRL+T to delete a line or token. //Tokenizer
19925: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
19926: Type CTRL+Shift+T to add ToDo in line and list.
19927: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
19928: Type CTRL+[0..9] to jump or get to bookmarks.
19929: Type Home to position cursor at beginning of current line and End to position it at end of line.
19930: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.

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19931: Page Up and Page Down work as expected.
19932: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
19933: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
19934:
19935: { $ Short Key Positions Ctrl<A-Z>: }
19936: def
19937:     <A> Select All
19938:     <B> Count Words
19939:     <C> Copy
19940:     <D> Internet Start
19941:     <E> Script List
19942:     <F> Find
19943:     <G> Goto
19944:     <H> Mark Line
19945:     <I> Interface List
19946:     <J> Code Completion
19947:     <K> Console
19948:     <L> Interface List Box
19949:     <M> Font Larger -
19950:     <N> New Line
19951:     <O> Open File
19952:     <P> Font Smaller +
19953:     <Q> Quit
19954:     <R> Replace
19955:     <S> Save!
19956:     <T> Delete Line
19957:     <U> Use Case Editor
19958:     <V> Paste
19959:     <W> URI Links
19960:     <X> Reserved for coding use internal
19961:     <Y> Delete Line
19962:     <Z> Undo
19963:
19964: ref
19965:     F1 Help
19966:     F2 Syntax Check
19967:     F3 Search Next
19968:     F4 New Instance
19969:     F5 Line Mark /Breakpoint
19970:     F6 Goto End
19971:     F7 Debug Step Into
19972:     F8 Debug Step Out
19973:     F9 Compile
19974:     F10 Menu
19975:     F11 Word Count Highlight
19976:     F12 Reserved for coding use internal
19977:
19978: def ReservedWords: array[0..82] of string =
19979:     ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
19980:      'constructor', 'default', 'destructor', 'disinterface', 'div', 'do',
19981:      'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
19982:      'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
19983:      'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
19984:      'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
19985:      'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
19986:      'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
19987:      'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
19988:      'uses', 'var', 'while', 'with', 'writeln', 'xor', 'private', 'protected',
19989:      'public', 'published', 'def', 'ref', 'using', 'typedef', 'memo1', 'memo2', 'doc', 'maxform1';
19990:     AllowedChars: array[0..5] of string = ('(', ')', '[', ']', ',', ',', t,t1,t2,t3: boolean;
19991:
19992: //-----
19993: //*****End of mX4 Public Tools API *****
19994: //-----
19995:
19996: Amount of Functions: 12728
19997: Amount of Procedures: 7881
19998: Amount of Constructors: 1276
19999: Totals of Calls: 21885
20000: SHA1: Win 3.9.9.96 6DF0415E1645C98C2298DA0A3F613A016AD72EEE
20001:
20002: ****
20003: Doc Short Manual with 50 Tips!
20004: ****
20005: - Install: just save your maxboxdef.ini before and then extract the zip file!
20006: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
20007: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
20008: - Menu: With <Ctrl><F3> you can search for code on examples
20009: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
20010: - Menu: Set Interface Navigator in menu /View/Intf Navigator
20011: - Menu: Switch or toggle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
20012:
20013: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
20014: - Inifile: Refresh (reload) the ini file after edit with ../Help/Config Update
20015: - Context Menu: You can printout your scripts as a pdf-file or html-export
20016: - Context: You do have a context menu with the right mouse click
20017:
20018: - Menu: With the UseCase Editor you can convert graphic formats too.
20019: - Menu: On menu Options you find Addons as compiled scripts

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20020: - IDE: You don't need a mouse to handle maxbox, use shortcuts
20021: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
20022: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
20023: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
20024:           or ttimer (you type classp and then CTRL J), or you type tstringlist and <Ctrl><J>
20025:
20026: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
20027: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
20028: - Code: If you code a loop till key-pressed use function: isKeyPressed;
20029: - Code: Macro set the macros #name,, #paAdministrorth, #file,startmaxbox_extract_funcList399.txt
20030: - Code: change Syntax in autboot macro 'maxbootscript.txt'
20031: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
20032:           to delete and Click and mark to drag a bookmark
20033: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
20034: - IDE: A file info with system and script information you find in menu Program/Information
20035: - IDE: After change the config file in help you can update changes in menu Help/Config Update
20036: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
20037: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
20038: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
20039: - Editor: Set Bookmarks to check your work in app or code
20040: - Editor: With <Ctrl H> you set {$Active Line Color} and F11 you get Word Count Statistic on Output too
20041: - Editor: With //TODO: some description or DONE you set code entries for ToDo List in ..../Help/ToDo List
20042: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
20043:
20044: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
20045: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
20046: - Menu: Set Interface Naviagator also with toggle <Ctrl L> or /View/Intf Navigator
20047: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
20048: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
20049: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available;
20050: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
20051: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
20052:
20053: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
20054: - Add on when no browser is available start /Options/Add ons/Easy Browser
20055: - Add on SOAP Tester with SOP POST File
20056: - Add on IP Protocol Sniffer with List View
20057: - Add on OpenGL mX Robot Demo for android
20058:
20059: - Menu: Help/Tools as a Tool Section with DOS Opener
20060: - Menu Editor: export the code as RTF File
20061: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
20062: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
20063: - Context: Auto Detect of Syntax depending on file extension
20064: - Code: some Windows API function start with w in the name like wGetAtomName();
20065: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
20066: - IDE File Check with menu ..View/File Changes/...
20067: - Context: Create a Header with Create Header in Navigator List at right window
20068: - Code: use SysErrorMessage to get a real Error Description, Ex.
20069:     RemoveDir('C:\NoSuchFolder');
20070:     writeln('System Error Message: '+ SysErrorMessage(GetLastError));
20071: - IDE getWebScript from a URL with menu ..Help/Get Web Script/...
20072:
20073:
20074: - using DLL example in maxbox: //function: {*****}
20075:   Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
20076:                                     cb: DWORD): BOOL; //stdcall;
20077:   External 'GetProcessMemoryInfo@psapi.dll stdcall';
20078:   Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
20079:   External 'OpenProcess@kernel32.dll stdcall';
20080:
20081: PCT Precompile Technology , mx4 ScriptStudio
20082: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
20083: DMath, devC, Graphics32, ExtPascal, mx4, LCL, CLX, FCL, CPort and more
20084: emax layers: system-package-component-unit-class-function-block
20085: new keywords def ref using maxCalcF
20086: UML: use case act class state seq pac comp dep - lib lab
20087: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
20088: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
20089: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
20090: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
20091: 1 DLL Report, 24 Units add, DRTable, Remote+, Cindy functions!
20092: DLL Report, UML Tutor, 32 Units add, DRTable, Remote+, Cindy functions!
20093: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
20094: SendBuffer, Color+Caption hack, ComboSet, SetPrivilege, WakeOnLAN, ParaDice 3D Cube Polygraph, OCR
20095: GetScript or GetWebScript, GPS Example, Profiler, Checkers
20096:
20097:
20098: https://unibe-ch.academia.edu/MaxKleiner
20099: www.slideshare.net/maxkleiner1
20100: http://www.scribd.com/max_kleiner
20101: http://www.delphiforfun.org/Programs/Utilities/index.htm
20102: http://www.slideshare.net/maxkleiner1
20103: http://s3.amazonaws.com/PreviewLinks/22959.html
20104: http://www.softwareschule.ch/arduino_training.pdf
20105:
20106:
20107:
20108: ****

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20109: unit List asm internal end
20110: ****
20111: 01 unit RIRegister_StrUtils_Routines(exec); //Delphi
20112: 02 unit SIRegister_IdStrings; //Indy Sockets
20113: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
20114: 04 unit uPSI_fMain Functions; //maxBox Open Tools API
20115: 05 unit IFSI_WinFormlpuzzle; //maxBox
20116: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImagefileLibBCB
20117: 07 unit RegisterDateLibrary_R(exec); //Delphi
20118: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
20119: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
20120: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
20121: 11 unit uPSI_IdTCPConnection; //Indy some functions
20122: 12 unit uPSCompiler.pas; //PS kernel functions
20123: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
20124: 14 unit uPSI_Printers.pas; //Delphi VCL
20125: 15 unit uPSI_MPlayer.pas; //Delphi VCL
20126: 16 unit uPSC_comobj; //COM Functions
20127: 17 unit uPSI_Clipbrd; //Delphi VCL
20128: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
20129: 19 unit uPSI_SqlExpr; //DBX3
20130: 20 unit uPSI_AdOdbc; //ADODB
20131: 21 unit uPSI_StrHlpr; //String Helper Routines
20132: 22 unit uPSI_DateUtils; //Expansion to DateTimeLib
20133: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
20134: 24 unit JUutils / gsUtils; //Jedi / Metabase
20135: 25 unit JvFunctions_max; //Jedi Functions
20136: 26 unit HTTPParser; //Delphi VCL
20137: 27 unit HTTPUtil; //Delphi VCL
20138: 28 unit uPSI_XMLUtil; //Delphi VCL
20139: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
20140: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
20141: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
20142: 32 unit uPSI_MyBigInt; //big integer class with Math
20143: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
20144: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
20145: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
20146: 36 unit uPSI_IdHashMessageDigest; //Indy Crypto;
20147: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
20148: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
20149: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
20150: 40 unit uPSI_IdHashMessageDigest_max //Indy Crypto &OpenSSL;
20151: 41 unit uPSI_FileCtrl; //Delphi RTL
20152: 42 unit uPSI_Outline; //Delphi VCL
20153: 43 unit uPSI_ScktComp; //Delphi RTL
20154: 44 unit uPSI_Calendar; //Delphi VCL
20155: 45 unit uPSI_VlistView; //VListView;
20156: 46 unit uPSI_DBGrids; //Delphi VCL
20157: 47 unit uPSI_DBCtrls; //Delphi VCL
20158: 48 unit ide_debugoutput; //maxBox
20159: 49 unit uPSI_ComCtrls; //Delphi VCL
20160: 50 unit uPSC_stdCtrls+; //Delphi VCL
20161: 51 unit uPSI_Dialogs; //Delphi VCL
20162: 52 unit uPSI_StdConvs; //Delphi RTL
20163: 53 unit uPSI_DBClient; //Delphi RTL
20164: 54 unit uPSI_DBPlatform; //Delphi RTL
20165: 55 unit uPSI_Provider; //Delphi RTL
20166: 56 unit uPSI_FMTBcd; //Delphi RTL
20167: 57 unit uPSI_DBCGrids; //Delphi VCL
20168: 58 unit uPSI_CDSUtil; //MIDAS
20169: 59 unit uPSI_VarHlpr; //Delphi RTL
20170: 60 unit uPSI_ExtDlgs; //Delphi VCL
20171: 61 unit sdpStopwatch; //maxBox
20172: 62 unit uPSI_JclStatistics; //JCL
20173: 63 unit uPSI_JclLogic; //JCL
20174: 64 unit uPSI_JclMiscel; //JCL
20175: 65 unit uPSI_JclMath_max; //JCL RTL
20176: 66 unit uPSI_uTPLb_StreamUtils; //LockBox 3
20177: 67 unit uPSI_MathUtils; //BCB
20178: 68 unit uPSI_JclMultimedia; //JCL
20179: 69 unit uPSI_WideStrUtils; //Delphi API/RTL
20180: 70 unit uPSI_GraphUtil; //Delphi RTL
20181: 71 unit uPSI_TypeTrans; //Delphi RTL
20182: 72 unit uPSI_HTTPApp; //Delphi VCL
20183: 73 unit uPSI_DBWeb; //Delphi VCL
20184: 74 unit uPSI_DBBdeWeb; //Delphi VCL
20185: 75 unit uPSI_DBExpressWeb; //Delphi VCL
20186: 76 unit uPSI_ShadowWnd; //Delphi VCL
20187: 77 unit uPSI_ToolWin; //Delphi VCL
20188: 78 unit uPSI_Tabs; //Delphi VCL
20189: 79 unit uPSI_JclGraphUtils; //JCL
20190: 80 unit uPSI_JclCounter; //JCL
20191: 81 unit uPSI_JclSysInfo; //JCL
20192: 82 unit uPSI_JclSecurity; //JCL
20193: 83 unit uPSI_JclFileUtils; //Indy
20194: 84 unit uPSI_IdUserAccounts; //Indy
20195: 85 unit uPSI_IdAuthentication; //Indy
20196: 86 unit uPSI_uTPLb_AES; //LockBox 3
20197: 87 unit uPSI_IdHashSHA1; //LockBox 3

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20198: 88 unit uTPLb_BlockCipher;                                //LockBox 3
20199: 89 unit uPSI_ValEdit.pas;                               //Delphi VCL
20200: 90 unit uPSI_JvVCLUtils;                             //JCL
20201: 91 unit uPSI_JvDBUtil;                                //JCL
20202: 92 unit uPSI_JvDBUtils;                             //JCL
20203: 93 unit uPSI_JvAppUtils;                            //JCL
20204: 94 unit uPSI_JvCtrlUtils;                           //JCL
20205: 95 unit uPSI_JvFormToHtml;                           //JCL
20206: 96 unit uPSI_JvParsing;                                //JCL
20207: 97 unit uPSI_SerDlg;                                 //Toolbox
20208: 98 unit uPSI_Serial;                                //Toolbox
20209: 99 unit uPSI_JvComponent;                           //JCL
20210: 100 unit uPSI_JvCalc;                                //JCL
20211: 101 unit uPSI_JvBdeUtils;                           //JCL
20212: 102 unit uPSI_JvDateUtil;                           //JCL
20213: 103 unit uPSI_JvGenetic;                           //JCL
20214: 104 unit uPSI_JclBase;                                //JCL
20215: 105 unit uPSI_JvUtils;                                //JCL
20216: 106 unit uPSI_JvStringUtil;                           //JCL
20217: 107 unit uPSI_JvStringUtil;                           //JCL
20218: 108 unit uPSI_JvFileUtil;                            //JCL
20219: 109 unit uPSI_JvMemoryInfos;                           //JCL
20220: 110 unit uPSI_JvComputerInfo;                          //JCL
20221: 111 unit uPSI_JvgCommClasses;                         //JCL
20222: 112 unit uPSI_JvgLogics;                            //JCL
20223: 113 unit uPSI_JvLED;                                 //JCL
20224: 114 unit uPSI_JvTurtle;                                //JCL
20225: 115 unit uPSI_SortThds; unit uPSI_ThSort;           //maxBox
20226: 116 unit uPSI_JvgUtils;                            //JCL
20227: 117 unit uPSI_JvExprParser;                           //JCL
20228: 118 unit uPSI_HexDump;                                //Borland
20229: 119 unit uPSI_DBLogDlg;                            //VCL
20230: 120 unit uPSI_SqlTimSt;                            //RTL
20231: 121 unit uPSI_JvHtmlParser;                           //JCL
20232: 122 unit uPSI_JvgXMLSerializer;                      //JCL
20233: 123 unit uPSI_JvJCLUtils;                           //JCL
20234: 124 unit uPSI_JvStrings;                            //JCL
20235: 125 unit uPSI_uTPLb_IntegerUtils;                     //TurboPower
20236: 126 unit uPSI_uTPLb_HugeCardinal;                     //TurboPower
20237: 127 unit uPSI_uTPLb_HugeCardinalUtils;                  //TurboPower
20238: 128 unit uPSI_SynRegExpr;                            //SynEdit
20239: 129 unit uPSI_StUtils;                                //SysTools4
20240: 130 unit uPSI_StToHTML;                            //SysTools4
20241: 131 unit uPSI_StStrms;                            //SysTools4
20242: 132 unit uPSI_StFIN;                                //SysTools4
20243: 133 unit uPSI_StAstroP;                            //SysTools4
20244: 134 unit uPSI_StStat;                                //SysTools4
20245: 135 unit uPSI_StNetCon;                            //SysTools4
20246: 136 unit uPSI_StDecMth;                            //SysTools4
20247: 137 unit uPSI_StOStr;                                //SysTools4
20248: 138 unit uPSI_StPtrns;                            //SysTools4
20249: 139 unit uPSI_StNetMsg;                            //SysTools4
20250: 140 unit uPSI_StMath;                                //SysTools4
20251: 141 unit uPSI_StExpEng;                            //SysTools4
20252: 142 unit uPSI_STCRC;                                //SysTools4
20253: 143 unit uPSI_StExport;                            //SysTools4
20254: 144 unit uPSI_StExpLog;                            //SysTools4
20255: 145 unit uPSI_ActnList;                            //Delphi VCL
20256: 146 unit uPSI_jpeg;                                //Borland
20257: 147 unit uPSI_StRandom;                            //SysTools4
20258: 148 unit uPSI_StDict;                                //SysTools4
20259: 149 unit uPSI_StBCD;                                //SysTools4
20260: 150 unit uPSI_StTxtDat;                            //SysTools4
20261: 151 unit uPSI_StRegEx;                            //SysTools4
20262: 152 unit uPSI_IMouse;                                //VCL
20263: 153 unit uPSI_SyncObjs;                            //VCL
20264: 154 unit uPSI_AsyncCalls;                           //Hausladen
20265: 155 unit uPSI_ParallelJobs;                           //Saraiva
20266: 156 unit uPSI_Variants;                            //VCL
20267: 157 unit uPSI_VarCmplx;                            //VCL Wolfram
20268: 158 unit uPSI_DTDSchema;                           //VCL
20269: 159 unit uPSI_ShLwApi;                                //Brakel
20270: 160 unit uPSI_IBUtils;                            //VCL
20271: 161 unit uPSI_CheckLst;                            //VCL
20272: 162 unit uPSI_JvSimpleXml;                           //JCL
20273: 163 unit uPSI_JclSimpleXml;                           //JCL
20274: 164 unit uPSI_JvXmlDatabase;                          //JCL
20275: 165 unit uPSI_JvMaxPixel;                           //JCL
20276: 166 unit uPSI_JvItemsSearchs;                        //JCL
20277: 167 unit uPSI_StExpEng2;                            //SysTools4
20278: 168 unit uPSI_StGenLog;                            //SysTools4
20279: 169 unit uPSI_JvLogFile;                            //Jcl
20280: 170 unit uPSI_CPort;                                //ComPort Lib v4.11
20281: 171 unit uPSI_CPortCtl;                            //ComPort
20282: 172 unit uPSI_CPortEsc;                            //ComPort
20283: 173 unit BarCodeScanner;                           //ComPort
20284: 174 unit uPSI_JvGraph;                                //JCL
20285: 175 unit uPSI_JvComCtrls;                           //JCL
20286: 176 unit uPSI_GUITesting;                           //D Unit

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20287: 177 unit uPSI_JvFindFiles;                                //JCL
20288: 178 unit uPSI_StSystem;                                 //SysTools4
20289: 179 unit uPSI_JvKeyboardStates;                           //JCL
20290: 180 unit uPSI_JvMail;                                  //JCL
20291: 181 unit uPSI_JclConsole;                             //JCL
20292: 182 unit uPSI_JclLANMan;                            //JCL
20293: 183 unit uPSI_IdCustomHTTPServer;                      //Indy
20294: 184 unit IdHTTPServer;                               //Indy
20295: 185 unit uPSI_IdTCPServer;                           //Indy
20296: 186 unit uPSI_IdSocketHandle;                         //Indy
20297: 187 unit uPSI_IdIOHandlerSocket;                      //Indy
20298: 188 unit IdIOHandler;                                //Indy
20299: 189 unit uPSI_utils;                                //Bloodshed
20300: 190 unit uPSI-BoldUtils;                            //boldsoft
20301: 191 unit uPSI_IdSimpleServer;                        //Indy
20302: 192 unit uPSI_IdSSLOpenSSL;                          //Indy
20303: 193 unit uPSI_IdMultipartFormData;                   //Indy
20304: 194 unit uPSI_SynURIOpener;                          //SynEdit
20305: 195 unit uPSI_PerlRegEx;                            //PCRE
20306: 196 unit uPSI_IdHeaderList;                          //Indy
20307: 197 unit uPSI_StFirst;                             //SysTools4
20308: 198 unit uPSI_JvCtrls;                            //JCL
20309: 199 unit uPSI_IdTrivialFTPBase;                     //Indy
20310: 200 unit uPSI_IdTrivialFTP;                         //Indy
20311: 201 unit uPSI_IdUDPBase;                           //Indy
20312: 202 unit uPSI_IdUDPClient;                          //Indy
20313: 203 unit uPSI_utypes;                            //for DMath.DLL
20314: 204 unit uPSI_ShellAPI;                           //Borland
20315: 205 unit uPSI_IdRemoteCMDClient;                   //Indy
20316: 206 unit uPSI_IdRemoteCMDServer;                   //Indy
20317: 207 unit IdRexecServer;                           //Indy
20318: 208 unit IdRexec; (unit uPSI_IdRexec;)           //Indy
20319: 209 unit IdUDPServer;                            //Indy
20320: 210 unit IdTimeUDPServer;                          //Indy
20321: 211 unit IdTimeServer;                            //Indy
20322: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;)     //Indy
20323: 213 unit uPSI_IdIPWatch;                           //Indy
20324: 214 unit uPSI_IdIrcServer;                          //Indy
20325: 215 unit uPSI_IdMessageCollection;                 //Indy
20326: 216 unit uPSI_cPEM;                                //Fundamentals 4
20327: 217 unit uPSI_cFundamentUtils;                    //Fundamentals 4
20328: 218 unit uPSI_uwinplot;                           //DMath
20329: 219 unit uPSI_xrtl_util_CPUUtils;                  //ExtentedRTL
20330: 220 unit uPSI_GR32_System;                         //Graphics32
20331: 221 unit uPSI_cFileUtils;                          //Fundamentals 4
20332: 222 unit uPSI_cDateTime; (timemachine)            //Fundamentals 4
20333: 223 unit uPSI_cTimers; (high precision timer)    //Fundamentals 4
20334: 224 unit uPSI_cRandom;                            //Fundamentals 4
20335: 225 unit uPSI_ueaval;                            //DMath
20336: 226 unit uPSI_xrtl_net_URIUtils;                  //ExtendedRTL
20337: 227 unit xrtl_net_URIUtils;                      //ExtendedRTL
20338: 228 unit uPSI_ufft; (FFT)                         //DMath
20339: 229 unit uPSI_DBXChannel;                          //Delphi
20340: 230 unit uPSI_DBXIndyChannel;                     //Delphi Indy
20341: 231 unit uPSI_xrtl_util_COMCat;                   //ExtendedRTL
20342: 232 unit uPSI_xrtl_util_StrUtils;                 //ExtendedRTL
20343: 233 unit uPSI_xrtl_util_VariantUtils;            //ExtendedRTL
20344: 234 unit uPSI_xrtl_util_FileUtils;                //ExtendedRTL
20345: 235 unit xrtl_util_Compat;                       //ExtendedRTL
20346: 236 unit uPSI_OleAuto;                           //Borland
20347: 237 unit uPSI_xrtl_util_COMUtils;                 //ExtendedRTL
20348: 238 unit uPSI_CmAdmCtl;                           //Borland
20349: 239 unit uPSI_ValEdit2;                           //VCL
20350: 240 unit uPSI_GR32; //Graphics32                //Graphics32
20351: 241 unit uPSI_GR32_Image;                          //Graphics32
20352: 242 unit uPSI_xrtl_util_TimeUtils;                //ExtendedRTL
20353: 243 unit uPSI_xrtl_util_TimeZone;                 //ExtendedRTL
20354: 244 unit uPSI_xrtl_util_TimeStamp;                //ExtendedRTL
20355: 245 unit uPSI_xrtl_util_Map;                      //ExtendedRTL
20356: 246 unit uPSI_xrtl_util_Set;                      //ExtendedRTL
20357: 247 unit uPSI_CPortMonitor;                        //ComPort
20358: 248 unit uPSI_StIniStm;                           //SysTools4
20359: 249 unit uPSI_GR32_ExtImage;                      //Graphics32
20360: 250 unit uPSI_GR32_OrdinalMaps;                   //Graphics32
20361: 251 unit uPSI_GR32_Rasterizers;                   //Graphics32
20362: 252 unit uPSI_xrtl_util_Exception;                 //ExtendedRTL
20363: 253 unit uPSI_xrtl_util_Value;                     //ExtendedRTL
20364: 254 unit uPSI_xrtl_util_Compare;                  //ExtendedRTL
20365: 255 unit uPSI_FlatSB;                            //VCL
20366: 256 unit uPSI_JvAnalogClock;                      //JCL
20367: 257 unit uPSI_JvAlarms;                           //JCL
20368: 258 unit uPSI_JvSQLS;                            //JCL
20369: 259 unit uPSI_JvDBSecur;                          //JCL
20370: 260 unit uPSI_JvDBQBE;                           //JCL
20371: 261 unit uPSI_JvStarfield;                        //JCL
20372: 262 unit uPSI_JvCLMiscal;                        //JCL
20373: 263 unit uPSI_JvProfiler32;                      //JCL
20374: 264 unit uPSI_JvDirectories;                      //JCL
20375: 265 unit uPSI_JclSchedule,                         //JCL

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20376: 266 unit uPSI_JclSvcCtrl, //JCL
20377: 267 unit uPSI_JvSoundControl, //JCL
20378: 268 unit uPSI_JvbDESQLScript, //JCL
20379: 269 unit uPSI_JvgDigits, //JCL>
20380: 270 unit uPSI_ImgList; //TCustomImageList
20381: 271 unit uPSI_JclMIDI; //JCL>
20382: 272 unit uPSI_JclWinMidi; //JCL>
20383: 273 unit uPSI_JclNTFS; //JCL>
20384: 274 unit uPSI_JclAppInst; //JCL>
20385: 275 unit uPSI_JvRle; //JCL>
20386: 276 unit uPSI_JvRas32; //JCL>
20387: 277 unit uPSI_JvImageDrawThread, //JCL>
20388: 278 unit uPSI_JvImageWindow, //JCL>
20389: 279 unit uPSI_JvTransparentForm; //JCL>
20390: 280 unit uPSI_JvWinDialogs; //JCL>
20391: 281 unit uPSI_JvSimLogic, //JCL>
20392: 282 unit uPSI_JvSimIndicator, //JCL>
20393: 283 unit uPSI_JvSimPID, //JCL>
20394: 284 unit uPSI_JvSimPIDLinker, //JCL>
20395: 285 unit uPSI_IdRFCReply; //Indy
20396: 286 unit uPSI_IdIdent; //Indy
20397: 287 unit uPSI_IdIdentServer; //Indy
20398: 288 unit uPSI_JvPatchFile; //JCL
20399: 289 unit uPSI_StNetPfm; //SysTools4
20400: 290 unit uPSI_StNet; //SysTools4
20401: 291 unit uPSI_JclPeImage; //JCL
20402: 292 unit uPSI_JclPrint; //JCL
20403: 293 unit uPSI_JclMime; //JCL
20404: 294 unit uPSI_JvRichEdit; //JCL
20405: 295 unit uPSI_JvDBRichEd; //JCL
20406: 296 unit uPSI_JvDice; //JCL
20407: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
20408: 298 unit uPSI_JvDirFrm; //JCL
20409: 299 unit uPSI_JvDualList; //JCL
20410: 300 unit uPSI_JvSwitch; //JCL
20411: 301 unit uPSI_JvTimerLst; //JCL
20412: 302 unit uPSI_JvMemTable; //JCL
20413: 303 unit uPSI_JvObjStr; //JCL
20414: 304 unit uPSI_StLArr; //SysTools4
20415: 305 unit uPSI_StWmDCpy; //SysTools4
20416: 306 unit uPSI_StText; //SysTools4
20417: 307 unit uPSI_StNTLog; //SysTools4
20418: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
20419: 309 unit uPSI_JvImagPrvw; //JCL
20420: 310 unit uPSI_JvFormPatch; //JCL
20421: 311 unit uPSI_JvPicClip; //JCL
20422: 312 unit uPSI_JvDataConv; //JCL
20423: 313 unit uPSI_JvCpuUsage; //JCL
20424: 314 unit uPSI_JclUnitConv_mx2; //JCL
20425: 315 unit JvDualListForm; //JCL
20426: 316 unit uPSI_JvCpuUsage2; //JCL
20427: 317 unit uPSI_JvParserForm; //JCL
20428: 318 unit uPSI_JvJanTreeView; //JCL
20429: 319 unit uPSI_JvTransLED; //JCL
20430: 320 unit uPSI_JvPlaylist; //JCL
20431: 321 unit uPSI_JvFormAutoSize; //JCL
20432: 322 unit uPSI_JvYearGridEditForm; //JCL
20433: 323 unit uPSI_JvMarkupCommon; //JCL
20434: 324 unit uPSI_JvChart; //JCL
20435: 325 unit uPSI_JvXPCore; //JCL
20436: 326 unit uPSI_JvXPCoreUtils; //JCL
20437: 327 unit uPSI_StatsClasses; //mx4
20438: 328 unit uPSI_ExtCtrls2; //VCL
20439: 329 unit uPSI_JvUrlGrabbers; //JCL
20440: 330 unit uPSI_JvXmlTree; //JCL
20441: 331 unit uPSI_JvWavePlayer; //JCL
20442: 332 unit uPSI_JvUnicodeCanvas; //JCL
20443: 333 unit uPSI_JvTFUtils; //JCL
20444: 334 unit uPSI_IdServerIOHandler; //Indy
20445: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
20446: 336 unit uPSI_IdMessageCoder; //Indy
20447: 337 unit uPSI_IdMessageCoderMIME; //Indy
20448: 338 unit uPSI_IdMIMETypes; //Indy
20449: 339 unit uPSI_JvConverter; //JCL
20450: 340 unit uPSI_JvCsvParse; //JCL
20451: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
20452: 342 unit uPSI_ExcelExport;(Nat:TJsExcelExport) //JCL
20453: 343 unit uPSI_JvDBGGridExport; //JCL
20454: 344 unit uPSI_JvgExport; //JCL
20455: 345 unit uPSI_JvSerialMaker; //JCL
20456: 346 unit uPSI_JvWin32; //JCL
20457: 347 unit uPSI_JvPaintFX; //JCL
20458: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
20459: 349 unit uPSI_JvValidators; (preview) //JCL
20460: 350 unit uPSI_JvNTEventLog; //JCL
20461: 351 unit uPSI_ShellZipTool; //mx4
20462: 352 unit uPSI_JvJoystick; //JCL
20463: 353 unit uPSI_JvMailSlots; //JCL
20464: 354 unit uPSI_JclComplex; //JCL

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20465: 355 unit uPSI_SynPdf; //Synopse
20466: 356 unit uPSI_Registry; //VCL
20467: 357 unit uPSI_TlHelp32; //VCL
20468: 358 unit uPSI_JclRegistry; //JCL
20469: 359 unit uPSI_JvAirBrush; //JCL
20470: 360 unit uPSI_mORMotReport; //Synopse
20471: 361 unit uPSI_JclLocales; //JCL
20472: 362 unit uPSI_SynEdit; //SynEdit
20473: 363 unit uPSI_SynEditTypes; //SynEdit
20474: 364 unit uPSI_SynMacroRecorder; //SynEdit
20475: 365 unit uPSI_LongIntList; //SynEdit
20476: 366 unit uPSI_devvcutils; //DevC
20477: 367 unit uPSI_SynEditMiscClasses; //SynEdit
20478: 368 unit uPSI_SynEditRegexSearch; //SynEdit
20479: 369 unit uPSI_SynEditHighlighter; //SynEdit
20480: 370 unit uPSI_SynHighlighterPas; //SynEdit
20481: 371 unit uPSI_JvSearchFiles; //JCL
20482: 372 unit uPSI_SynHighlighterAny; //Lazarus
20483: 373 unit uPSI_SynEditKeyCmds; //SynEdit
20484: 374 unit uPSI_SynEditMiscProcs; //SynEdit
20485: 375 unit uPSI_SynEditKbdHandler; //SynEdit
20486: 376 unit uPSI_JvAppInst; //JCL
20487: 377 unit uPSI_JvAppEvent; //JCL
20488: 378 unit uPSI_JvAppCommand; //JCL
20489: 379 unit uPSI_JvAnimTitle; //JCL
20490: 380 unit uPSI_JvAnimatedImage; //JCL
20491: 381 unit uPSI_SynEditExport; //SynEdit
20492: 382 unit uPSI_SynExportHTML; //SynEdit
20493: 383 unit uPSI_SynExportRTF; //SynEdit
20494: 384 unit uPSI_SynEditSearch; //SynEdit
20495: 385 unit uPSI_fMain_back; //maxBox;
20496: 386 unit uPSI_JvZoom; //JCL
20497: 387 unit uPSI_PMrand; //PM
20498: 388 unit uPSI_JvSticker; //JCL
20499: 389 unit uPSI_XmlVerySimple; //mX4
20500: 390 unit uPSI_Services; //ExtPascal
20501: 391 unit uPSI_ExtPascalUtils; //ExtPascal
20502: 392 unit uPSI_SocketsDelphi; //ExtPascal
20503: 393 unit uPSI_StBarC; //SysTools
20504: 394 unit uPSI_StDbBarC; //SysTools
20505: 395 unit uPSI_StBarPN; //SysTools
20506: 396 unit uPSI_StDbPNBC; //SysTools
20507: 397 unit uPSI_StDb2DBC; //SysTools
20508: 398 unit uPSI_StMoney; //SysTools
20509: 399 unit uPSI_JvForth; //JCL
20510: 400 unit uPSI_RestRequest; //mX4
20511: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
20512: 402 unit uPSI_JvXmlDatabase; //update //JCL
20513: 403 unit uPSI_StAstro; //SysTools
20514: 404 unit uPSI_StSort; //SysTools
20515: 405 unit uPSI_StDate; //SysTools
20516: 406 unit uPSI_StDateSt; //SysTools
20517: 407 unit uPSI_StBase; //SysTools
20518: 408 unit uPSI_StVInfo; //SysTools
20519: 409 unit uPSI_JvBrowseFolder; //JCL
20520: 410 unit uPSI_JvBoxProcs; //JCL
20521: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
20522: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
20523: 413 unit uPSI_JvHighlighter; //JCL
20524: 414 unit uPSI_Diff; //mX4
20525: 415 unit uPSI_SpringWinAPI; //DSpring
20526: 416 unit uPSI_StBits; //SysTools
20527: 417 unit uPSI_TomDBQue; //mX4
20528: 418 unit uPSI_MultilangTranslator; //mX4
20529: 419 unit uPSI_HyperLabel; //mX4
20530: 420 unit uPSI_Starter; //mX4
20531: 421 unit uPSI_FileAssoc; //devC
20532: 422 unit uPSI_devFileMonitorX; //devC
20533: 423 unit uPSI_devrun; //devC
20534: 424 unit uPSI_devExec; //devC
20535: 425 unit uPSI_oyzUtils; //devC
20536: 426 unit uPSI_DosCommand; //devC
20537: 427 unit uPSI_CppTokenizer; //devC
20538: 428 unit uPSI_JvHLPParser; //devC
20539: 429 unit uPSI_JclMapi; //JCL
20540: 430 unit uPSI_JclShell; //JCL
20541: 431 unit uPSI_JclCOM; //JCL
20542: 432 unit uPSI_GR32_Math; //Graphics32
20543: 433 unit uPSI_GR32_LowLevel; //Graphics32
20544: 434 unit uPSI_SimpleHl; //mX4
20545: 435 unit uPSI_GR32_Filters; //Graphics32
20546: 436 unit uPSI_GR32_VectorMaps; //Graphics32
20547: 437 unit uPSI_cXMLFunctions; //Fundamentals 4
20548: 438 unit uPSI_JvTimer; //JCL
20549: 439 unit uPSI_cHTTPUtils; //Fundamentals 4
20550: 440 unit uPSI_cTLSUtils; //Fundamentals 4
20551: 441 unit uPSI_JclGraphics; //JCL
20552: 442 unit uPSI_JclSynch; //JCL
20553: 443 unit uPSI_IdTelnet; //Indy

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20554: 444 unit uPSI_IdTelnetServer; //Indy
20555: 445 unit uPSI_IdEcho; //Indy
20556: 446 unit uPSI_IdEchoServer; //Indy
20557: 447 unit uPSI_IdEchoUDP; //Indy
20558: 448 unit uPSI_IdEchoUDPServer; //Indy
20559: 449 unit uPSI_IdSocks; //Indy
20560: 450 unit uPSI_IdAntiFreezeBase; //Indy
20561: 451 unit uPSI_IdHostnameServer; //Indy
20562: 452 unit uPSI_IdTunnelCommon; //Indy
20563: 453 unit uPSI_IdTunnelMaster; //Indy
20564: 454 unit uPSI_IdTunnelSlave; //Indy
20565: 455 unit uPSI_IdRSH; //Indy
20566: 456 unit uPSI_IdRSHServer; //Indy
20567: 457 unit uPSI_Spring_Cryptography_Utils; //Spring4Delphi
20568: 458 unit uPSI_MapReader; //devC
20569: 459 unit uPSI_LibTar; //devC
20570: 460 unit uPSI_IdStack; //Indy
20571: 461 unit uPSI_IdBlockCipherIntercept; //Indy
20572: 462 unit uPSI_IdChargenServer; //Indy
20573: 463 unit uPSI_IdFTPServer; //Indy
20574: 464 unit uPSI_IdException; //Indy
20575: 465 unit uPSI_utexplot; //DMath
20576: 466 unit uPSI_uwinstr; //DMath
20577: 467 unit uPSI_VarRecUtils; //devC
20578: 468 unit uPSI_JvStringListToHtml; //JCL
20579: 469 unit uPSI_JvStringHolder; //JCL
20580: 470 unit uPSI_IdCoder; //Indy
20581: 471 unit uPSI_SynHighlighterDfm; //Synedit
20582: 472 unit uHighlighterProcs; in 471 //Synedit
20583: 473 unit uPSI_LazFileUtils; //LCL
20584: 474 unit uPSI_IDECmdLine; //LCL
20585: 475 unit uPSI_lazMasks; //LCL
20586: 476 unit uPSI_ip_misc; //mx4
20587: 477 unit uPSI_Barcodes; //LCL
20588: 478 unit uPSI_SimpleXML; //LCL
20589: 479 unit uPSI_JclIniFiles; //JCL
20590: 480 unit uPSI_D2XXUnit; { $X- } //FTDI
20591: 481 unit uPSI_JclDateTime; //JCL
20592: 482 unit uPSI_JclEDI; //JCL
20593: 483 unit uPSI_JclMiscel2; //JCL
20594: 484 unit uPSI_JclValidation; //JCL
20595: 485 unit uPSI_JclAnsiStrings; {-PString} //JCL
20596: 486 unit uPSI_SynEditMiscProcs2; //Synedit
20597: 487 unit uPSI_JclStreams; //JCL
20598: 488 unit uPSI_QRCode; //mx4
20599: 489 unit uPSI_BlockSocket; //ExtPascal
20600: 490 unit uPSI_Masks_Utils; //VCL
20601: 491 unit uPSI_synautil; //Synapse!
20602: 492 unit uPSI_JclMath_Class; //JCL RTL
20603: 493 unit ugamdist; //Gamma function //DMath
20604: 494 unit uibeta, ucorrel; //IBeta //DMath
20605: 495 unit uPSI_SRMgr; //mx4
20606: 496 unit uPSI_HotLog; //mx4
20607: 497 unit uPSI_DebugBox; //mx4
20608: 498 unit uPSI_ustrings; //DMath
20609: 499 unit uPSI_uritest; //DMath
20610: 500 unit uPSI_usimplex; //DMath
20611: 501 unit uPSI_uhyper; //DMath
20612: 502 unit uPSI_IdHL7; //Indy
20613: 503 unit uPSI_IdIPMCastBase; //Indy
20614: 504 unit uPSI_IdIPMCastServer; //Indy
20615: 505 unit uPSI_IdIPMCastClient; //Indy
20616: 506 unit uPSI_unlfit; //nlregression //DMath
20617: 507 unit uPSI_IdRawHeaders; //Indy
20618: 508 unit uPSI_IdRawClient; //Indy
20619: 509 unit uPSI_IdRawFunctions; //Indy
20620: 510 unit uPSI_IdTCPStream; //Indy
20621: 511 unit uPSI_IdSNPP; //Indy
20622: 512 unit uPSI_St2DBarC; //SysTools
20623: 513 unit uPSI_ImageWin; //FTL //VCL
20624: 514 unit uPSI_CustomDrawTreeView; //FTL //VCL
20625: 515 unit uPSI_GraphWin; //FTL //VCL
20626: 516 unit uPSI_actionMain; //FTL //VCL
20627: 517 unit uPSI_StSpawn; //SysTools
20628: 518 unit uPSI_CtlPanel; //VCL //Indy
20629: 519 unit uPSI_IdLPR; //Indy
20630: 520 unit uPSI_SockRequestInterpreter; //Indy
20631: 521 unit uPSI_ulambert; //DMath
20632: 522 unit uPSI_ucholesk; //DMath
20633: 523 unit uPSI_SimpleDS; //VCL
20634: 524 unit uPSI_DBXSqlScanner; //VCL
20635: 525 unit uPSI_DBXMetaDataTable; //VCL
20636: 526 unit uPSI_Chart; //TEE
20637: 527 unit uPSI_TeeProcs; //TEE
20638: 528 unit mXBDEUtils; //mx4
20639: 529 unit uPSI_MDIEdit; //VCL
20640: 530 unit uPSI_CopyPsr; //VCL
20641: 531 unit uPSI_SockApp; //VCL
20642: 532 unit uPSI_AppEvnts; //VCL

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20643: 533 unit uPSI_ExtActns; //VCL
20644: 534 unit uPSI_TeEngine; //TEE
20645: 535 unit uPSI_CoolMain; //browser //VCL
20646: 536 unit uPSI_StCRC; //SysTools
20647: 537 unit uPSI_StDecMth2; //SysTools
20648: 538 unit uPSI_frmExportMain; //Synedit
20649: 539 unit uPSI_SynDBEdit; //Synedit
20650: 540 unit uPSI_SynEditWildcardSearch; //Synedit
20651: 541 unit uPSI_BoldComUtils; //BOLD
20652: 542 unit uPSI_BoldIsoDateTime; //BOLD
20653: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
20654: 544 unit uPSI_BoldXMLRequests; //BOLD
20655: 545 unit uPSI_BoldStringList; //BOLD
20656: 546 unit uPSI_BoldfileHandler; //BOLD
20657: 547 unit uPSI_BoldContainers; //BOLD
20658: 548 unit uPSI_BoldQueryUserDlg; //BOLD
20659: 549 unit uPSI_BoldWinINet; //BOLD
20660: 550 unit uPSI_BoldQueue; //BOLD
20661: 551 unit uPSI_JvPcx; //JCL
20662: 552 unit uPSI_IdWhois; //Indy
20663: 553 unit uPSI_IdWhoisServer; //Indy
20664: 554 unit uPSI_IdGopher; //Indy
20665: 555 unit uPSI_IdTimeStamp; //Indy
20666: 556 unit uPSI_IdDayTimeServer; //Indy
20667: 557 unit uPSI_IdDayTimeUDP; //Indy
20668: 558 unit uPSI_IdDayTimeUDPServer; //Indy
20669: 559 unit uPSI_IdDICTServer; //Indy
20670: 560 unit uPSI_IdDiscardServer; //Indy
20671: 561 unit uPSI_IdDiscardUDPServer; //Indy
20672: 562 unit uPSI_IdMappedFTP; //Indy
20673: 563 unit uPSI_IdMappedPortTCP; //Indy
20674: 564 unit uPSI_IdGopherServer; //Indy
20675: 565 unit uPSI_IdQotdServer; //Indy
20676: 566 unit uPSI_JvRgbToHtml; //JCL
20677: 567 unit uPSI_JvRemLog; //JCL
20678: 568 unit uPSI_JvSysComp; //JCL
20679: 569 unit uPSI_JvTMTL; //JCL
20680: 570 unit uPSI_JvWinampAPI; //JCL
20681: 571 unit uPSI_MSysUtils; //mX4
20682: 572 unit uPSI_ESBMaths; //ESB
20683: 573 unit uPSI_ESBMaths2; //ESB
20684: 574 unit uPSI_uLkJSON; //Lk
20685: 575 unit uPSI_ZURL; //Zeos
20686: 576 unit uPSI_ZSysUtils; //Zeos
20687: 577 unit unaUtils internals //UNA
20688: 578 unit uPSI_ZMatchPattern; //Zeos
20689: 579 unit uPSI_ZClasses; //Zeos
20690: 580 unit uPSI_ZCollections; //Zeos
20691: 581 unit uPSI_ZEncoding; //Zeos
20692: 582 unit uPSI_IdRawBase; //Indy
20693: 583 unit uPSI_IdNTLM; //Indy
20694: 584 unit uPSI_IdNNTP; //Indy
20695: 585 unit uPSI_usniffer; //PortScanForm //mX4
20696: 586 unit uPSI_IdCoderMIME; //Indy
20697: 587 unit uPSI_IdCoderUUE; //Indy
20698: 588 unit uPSI_IdCoderXXE; //Indy
20699: 589 unit uPSI_IdCoder3to4; //Indy
20700: 590 unit uPSI_IdCookie; //Indy
20701: 591 unit uPSI_IdCookieManager; //Indy
20702: 592 unit uPSI_WDosSocketUtils; //WDos
20703: 593 unit uPSI_WDosPlcUtils; //WDos
20704: 594 unit uPSI_WDosPorts; //WDos
20705: 595 unit uPSI_WDosResolvers; //WDos
20706: 596 unit uPSI_WDosTimers; //WDos
20707: 597 unit uPSI_WDosPlcs; //WDos
20708: 598 unit uPSI_WDosPneumatics; //WDos
20709: 599 unit uPSI_IdFingerServer; //Indy
20710: 600 unit uPSI_IdDNSResolver; //Indy
20711: 601 unit uPSI_IdHTTPWebBrokerBridge; //Indy
20712: 602 unit uPSI_IdIntercept; //Indy
20713: 603 unit uPSI_IdIPMCastBase; //Indy
20714: 604 unit uPSI_IdLogBase; //Indy
20715: 605 unit uPSI_IdIOHandlerStream; //Indy
20716: 606 unit uPSI_IdMappedPortUDP; //Indy
20717: 607 unit uPSI_IdQOTDUDPServer; //Indy
20718: 608 unit uPSI_IdQOTDUDP; //Indy
20719: 609 unit uPSI_IdSysLog; //Indy
20720: 610 unit uPSI_IdSysLogServer; //Indy
20721: 611 unit uPSI_IdSysLogMessage; //Indy
20722: 612 unit uPSI_IdTimeServer; //Indy
20723: 613 unit uPSI_IdTimeUDP; //Indy
20724: 614 unit uPSI_IdTimeUDPServer; //Indy
20725: 615 unit uPSI_IdUserAccounts; //Indy
20726: 616 unit uPSI_TextUtils; //mX4
20727: 617 unit uPSI_MandelbrotEngine; //mX4
20728: 618 unit uPSI_delphi_arduino_Unit1; //mX4
20729: 619 unit uPSI_TDTSchema2; //mX4
20730: 620 unit uPSI_fpplotMain; //DMath
20731: 621 unit uPSI_FindfileIter; //mX4

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20732: 622 unit uPSI_PppState;  (JclStrHashMap)      //PPP
20733: 623 unit uPSI_PppParser;                   //PPP
20734: 624 unit uPSI_PppLexer;                   //PPP
20735: 625 unit uPSI_PCharUtils;                 //WU
20736: 626 unit uPSI_uJSON;                      //JCL
20737: 627 unit uPSI_JclStrHashMap;               //JCL
20738: 628 unit uPSI_JclHookExcept;              //JCL
20739: 629 unit uPSI_EncdDecd;                  //VCL
20740: 630 unit uPSI_SockAppReg;                //VCL
20741: 631 unit uPSI_PJFileHandle;              //PJ
20742: 632 unit uPSI_PJEnvVars;                //PJ
20743: 633 unit uPSI_PJPipe;                   //PJ
20744: 634 unit uPSI_PJPipeFilters;             //PJ
20745: 635 unit uPSI_PJConsoleApp;              //PJ
20746: 636 unit uPSI_UConsoleAppEx;             //PJ
20747: 637 unit uPSI_DbxSocketChannelNative;    //VCL
20748: 638 unit uPSI_DbxDataGenerator;          //VCL
20749: 639 unit uPSI_DBXClient;                 //VCL
20750: 640 unit uPSI_IdLogEvent;                //Indy
20751: 641 unit uPSI_Reversi;                  //mX4
20752: 642 unit uPSI_Geometry;                 //mX4
20753: 643 unit uPSI_IdSMTPServer;              //Indy
20754: 644 unit uPSI_Textures;                 //mX4
20755: 645 unit uPSI_IBX;                     //VCL
20756: 646 unit uPSI_IWDBCommon;                //VCL
20757: 647 unit uPSI_SortGrid;                 //mX4
20758: 648 unit uPSI_IB;                      //VCL
20759: 649 unit uPSI_IBScript;                 //VCL
20760: 650 unit uPSI_JvCSVBaseControls;        //JCL
20761: 651 unit uPSI_Jvg3DCOLORS;              //JCL
20762: 652 unit uPSI_JvHLEditor; //beat       //JCL
20763: 653 unit uPSI_JvShellHook;              //JCL
20764: 654 unit uPSI_DBCommon2;                //VCL
20765: 655 unit uPSI_JvSHFileOperation;        //JCL
20766: 656 unit uPSI_uFileExport;              //mX4
20767: 657 unit uPSI_JvDialogs;                //JCL
20768: 658 unit uPSI_JvDBTreeview;              //JCL
20769: 659 unit uPSI_JvDBUltimGrid;            //JCL
20770: 660 unit uPSI_JvDBQueryParamsForm;      //JCL
20771: 661 unit uPSI_JvEXControls;             //JCL
20772: 662 unit uPSI_JvBDEMemTable;             //JCL
20773: 663 unit uPSI_JvCommStatus;              //JCL
20774: 664 unit uPSI_JvMailSlots2;              //JCL
20775: 665 unit uPSI_JvgWinMask;                //JCL
20776: 666 unit uPSI_StEclipse;                //SysTools
20777: 667 unit uPSI_StMime;                  //SysTools
20778: 668 unit uPSI_StList;                  //SysTools
20779: 669 unit uPSI_StMerge;                 //SysTools
20780: 670 unit uPSI_StStrs;                  //SysTools
20781: 671 unit uPSI_StTree;                  //SysTools
20782: 672 unit uPSI_StVArr;                  //SysTools
20783: 673 unit uPSI_StRegIni;                //SysTools
20784: 674 unit uPSI_urkf;                   //DMath
20785: 675 unit uPSI_usvd;                   //DMath
20786: 676 unit uPSI_DepWalkUtils;            //JCL
20787: 677 unit uPSI_OptionsFrm;              //JCL
20788: 678 unit yuvconverts;                 //mX4
20789: 679 uPSI_JvPropAutoSave;              //JCL
20790: 680 uPSI_AclAPI;                     //alcinoe
20791: 681 uPSI_AviCap;                     //alcinoe
20792: 682 uPSI_ALAVLBinaryTree;              //alcinoe
20793: 683 uPSI_ALFcMisc;                  //alcinoe
20794: 684 uPSI_ALStringList;                //alcinoe
20795: 685 uPSI_ALQuickSortList;              //alcinoe
20796: 686 uPSI_ALStaticText;                //alcinoe
20797: 687 uPSI_ALJSONDOC;                  //alcinoe
20798: 688 uPSI_ALGSMComm;                 //alcinoe
20799: 689 uPSI_ALWindows;                 //alcinoe
20800: 690 uPSI_ALMultiPartFormDataParser;   //alcinoe
20801: 691 uPSI_ALHttpCommon;                //alcinoe
20802: 692 uPSI_ALWebSpider;                //alcinoe
20803: 693 uPSI_ALHttpClient;               //alcinoe
20804: 694 uPSI_ALFcHTML;                  //alcinoe
20805: 695 uPSI_ALFTPClient;                //alcinoe
20806: 696 uPSI_ALInternetMessageCommon;   //alcinoe
20807: 697 uPSI_ALWininetHttpclient;         //alcinoe
20808: 698 uPSI_ALWinInetFTPCClient;        //alcinoe
20809: 699 uPSI_ALWinHttpWrapper;            //alcinoe
20810: 700 uPSI_ALWinHttpclient;              //alcinoe
20811: 701 uPSI_ALFcWinSock;                //alcinoe
20812: 702 uPSI_ALFcSQL;                   //alcinoe
20813: 703 uPSI_ALFcCGI;                   //alcinoe
20814: 704 uPSI_ALFcExecute;                //alcinoe
20815: 705 uPSI_ALFcFile;                  //alcinoe
20816: 706 uPSI_ALFcMimeType;               //alcinoe
20817: 707 uPSI_ALPhpRunner;                //alcinoe
20818: 708 uPSI_ALGraphic;                 //alcinoe
20819: 709 uPSI_ALIniFiles;                //alcinoe
20820: 710 uPSI_ALMemCachedClient;           //alcinoe

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20821: 711 unit uPSI_MyGrids; //mX4
20822: 712 uPSI_ALMultiPartMixedParser //alcinoe
20823: 713 uPSI_ALSMTPClient //alcinoe
20824: 714 uPSI_ALNNTPClient //alcinoe
20825: 715 uPSI_ALHintBalloon; //alcinoe
20826: 716 unit uPSI_ALXmlDoc; //alcinoe
20827: 717 unit uPSI_IPCThrd; //VCL
20828: 718 unit uPSI_MonForm; //VCL
20829: 719 unit uPSI_TeCanvas; //Orpheus
20830: 720 unit uPSI_Ovcmisc; //Orpheus
20831: 721 unit uPSI_ovcfiler; //Orpheus
20832: 722 unit uPSI_ovcstate; //Orpheus
20833: 723 unit uPSI_ovccoco; //Orpheus
20834: 724 unit uPSI_ovcrvexp; //Orpheus
20835: 725 unit uPSI_OvcFormatSettings; //Orpheus
20836: 726 unit uPSI_OvcUtils; //Orpheus
20837: 727 unit uPSI_ovcstore; //Orpheus
20838: 728 unit uPSI_ovcstr; //Orpheus
20839: 729 unit uPSI_ovcmru; //Orpheus
20840: 730 unit uPSI_ovccmd; //Orpheus
20841: 731 unit uPSI_ovctimer; //Orpheus
20842: 732 unit uPSI_ovcintl; //Orpheus
20843: 733 uPSI_AfCircularBuffer; //AsyncFree
20844: 734 uPSI_AfUtils; //AsyncFree
20845: 735 uPSI_AfSafeSync; //AsyncFree
20846: 736 uPSI_AfComPortCore; //AsyncFree
20847: 737 uPSI_AfComPort; //AsyncFree
20848: 738 uPSI_AfPortControls; //AsyncFree
20849: 739 uPSI_AfDataDispatcher; //AsyncFree
20850: 740 uPSI_AfViewers; //AsyncFree
20851: 741 uPSI_AfDataTerminal; //AsyncFree
20852: 742 uPSI_SimplePortMain; //AsyncFree
20853: 743 unit uPSI_ovcclock; //Orpheus
20854: 744 unit uPSI_o32intlst; //Orpheus
20855: 745 unit uPSI_o32ledlabel; //Orpheus
20856: 746 unit uPSI_AlMySqlClient; //alcinoe
20857: 747 unit uPSI_ALFBXClient; //alcinoe
20858: 748 unit uPSI_ALFcnsSQL; //alcinoe
20859: 749 unit uPSI_AsyncTimer; //mX4
20860: 750 unit uPSI_ApplicationFileIO; //mX4
20861: 751 unit uPSI_PsAPI; //VCLé
20862: 752 uPSI_ovcuser; //Orpheus
20863: 753 uPSI_ovcurl; //Orpheus
20864: 754 uPSI_ovcvlb; //Orpheus
20865: 755 uPSI_ovccolor; //Orpheus
20866: 756 uPSI_ALFBXLib; //alcinoe
20867: 757 uPSI_ovcmeter; //Orpheus
20868: 758 uPSI_ovcpeakm; //Orpheus
20869: 759 uPSI_O32BGSty; //Orpheus
20870: 760 uPSI_ovcBidi; //Orpheus
20871: 761 uPSI_ovctcarry; //Orpheus
20872: 762 uPSI_DXPUtils; //mX4
20873: 763 uPSI_ALMultiPartBaseParser; //alcinoe
20874: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
20875: 765 uPSI_ALPOP3Client; //alcinoe
20876: 766 uPSI_SmallUtils; //mX4
20877: 767 uPSI_MakeApp; //mX4
20878: 768 uPSI_O32MouseMon; //Orpheus
20879: 769 uPSI_OvcCache; //Orpheus
20880: 770 uPSI_ovccalc; //Orpheus
20881: 771 uPSI_Joystick; //OpenGL
20882: 772 uPSI_ScreenSaver; //OpenGL
20883: 773 uPSI_XCollection; //OpenGL
20884: 774 uPSI_Polynomials; //OpenGL
20885: 775 uPSI_PersistentClasses; //9.86 //OpenGL
20886: 776 uPSI_VectorLists; //OpenGL
20887: 777 uPSI_XOpenGL; //OpenGL
20888: 778 uPSI_MeshUtils; //OpenGL
20889: 779 unit uPSI_JclSysUtils; //JCL
20890: 780 unit uPSI_JclBorlandTools; //JCL
20891: 781 unit Jcl FileUtils_max; //JCL
20892: 782 uPSI_AfDataControls; //AsyncFree
20893: 783 uPSI_GLSilhouette; //OpenGL
20894: 784 uPSI_JclSysUtils_class; //JCL
20895: 785 uPSI_Jcl FileUtils_class; //JCL
20896: 786 uPSI_FileUtil; //JCL
20897: 787 uPSI_changefind; //mX4
20898: 788 uPSI_CmdIntf; //mX4
20899: 789 uPSI_fservice; //mX4
20900: 790 uPSI_Keyboard; //OpenGL
20901: 791 uPSI_VRMLParser; //OpenGL
20902: 792 uPSI_GLFileVRML; //OpenGL
20903: 793 uPSI_Octree; //OpenGL
20904: 794 uPSI_GLPolyhedron; //OpenGL
20905: 795 uPSI_GLCrossPlatform; //OpenGL
20906: 796 uPSI_GLParticles; //OpenGL
20907: 797 uPSI_GLNavigator; //OpenGL
20908: 798 uPSI_GLStarRecord; //OpenGL
20909: 799 uPSI_GLTextureCombiners; //OpenGL

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20910: 800 uPSI_GLCanvas; //OpenGL
20911: 801 uPSI_GeometryBB; //OpenGL
20912: 802 uPSI_GeometryCoordinates; //OpenGL
20913: 803 uPSI_VectorGeometry; //OpenGL
20914: 804 uPSI_BumpMapping; //OpenGL
20915: 805 uPSI_TGA; //OpenGL
20916: 806 uPSI_GLVectorFileObjects; //OpenGL
20917: 807 uPSI_IMM; //VCL
20918: 808 uPSI_CategoryButtons; //VCL
20919: 809 uPSI_ButtonGroup; //VCL
20920: 810 uPSI_DbExcept; //VCL
20921: 811 uPSI_AxCtrls; //VCL
20922: 812 uPSI_GL_actorUnit1; //OpenGL
20923: 813 uPSI_StdVCL; //VCL
20924: 814 unit CurvesAndSurfaces; //OpenGL
20925: 815 uPSI_DataAwareMain; //AsyncFree
20926: 816 uPSI_TabNotBk; //VCL
20927: 817 uPSI_udwsfiler; //mX4
20928: 818 uPSI_synaip; //Synapse!
20929: 819 uPSI_synacode; //Synapse
20930: 820 uPSI_synachar; //Synapse
20931: 821 uPSI_synamisc; //Synapse
20932: 822 uPSI_synaser; //Synapse
20933: 823 uPSI_synaicnv; //Synapse
20934: 824 uPSI_tlnتسند; //Synapse
20935: 825 uPSI_pingsend; //Synapse
20936: 826 uPSI_blecksock; //Synapse
20937: 827 uPSI_asnlutil; //Synapse
20938: 828 uPSI_dnssend; //Synapse
20939: 829 uPSI_clamsend; //Synapse
20940: 830 uPSI_ldapsend; //Synapse
20941: 831 uPSI_mimemess; //Synapse
20942: 832 uPSI_slogsend; //Synapse
20943: 833 uPSI_mimepart; //Synapse
20944: 834 uPSI_mimeinln; //Synapse
20945: 835 uPSI_ftpsend; //Synapse
20946: 836 uPSI_ftptsend; //Synapse
20947: 837 uPSI_httpsend; //Synapse
20948: 838 uPSI_ntpssend; //Synapse
20949: 839 uPSI_smtpssend; //Synapse
20950: 840 uPSI_snmpssend; //Synapse
20951: 841 uPSI_imapsend; //Synapse
20952: 842 uPSI_pop3send; //Synapse
20953: 843 uPSI_nntpsend; //Synapse
20954: 844 uPSI_ssl_cryptlib; //Synapse
20955: 845 uPSI_ssl_openssl; //Synapse
20956: 846 uPSI_synhttp_daemon; //Synapse
20957: 847 uPSI_NetWork; //mX4
20958: 848 uPSI_PingThread; //Synapse
20959: 849 uPSI_JvThreadTimer; //JCL
20960: 850 unit uPSI_wwSystem; //InfoPower
20961: 851 unit uPSI_IdComponent; //Indy
20962: 852 unit uPSI_IdIOHandlerThrottle; //Indy
20963: 853 unit uPSI_Themes; //VCL
20964: 854 unit uPSI_StdStyleActnCtrls; //VCL
20965: 855 unit uPSI_UDDIHelper; //VCL
20966: 856 unit uPSI_IdIMAP4Server; //Indy
20967: 857 uPSI_VariantSymbolTable; //VCL //3.9.9.92
20968: 858 uPSI_udf_glob; //mX4
20969: 859 uPSI_TabGrid; //VCL
20970: 860 uPSI_JsDBTreeView; //mX4
20971: 861 uPSI_JsSendMail; //mX4
20972: 862 uPSI_dbTvRecordList; //mX4
20973: 863 uPSI_TreeVwEx; //mX4
20974: 864 uPSI_ECDataLink; //mX4
20975: 865 uPSI_dbTree; //mX4
20976: 866 uPSI_dbTreeCBox; //mX4
20977: 867 unit uPSI_Debug; //TfrmDebug //mX4
20978: 868 uPSI_TimeFnCs; //mX4
20979: 869 uPSI_FileIntf; //VCL
20980: 870 uPSI_SockTransport; //RTL
20981: 871 unit uPSI_WinInet; //RTL
20982: 872 unit uPSI_WWSTR; //mX4
20983: 873 uPSI_DBLookup; //VCL
20984: 874 uPSI_Hotspot; //mX4
20985: 875 uPSI_HList; //History List //mX4
20986: 876 unit uPSI_DrTable; //VCL
20987: 877 uPSI_TConnect; //VCL
20988: 978 uPSI_DataBkr; //VCL
20989: 979 uPSI_HTTPIntr; //VCL
20990: 980 unit uPSI_Mathbox; //mX4
20991: 881 uPSI_cyIndy; //cY
20992: 882 uPSI_cySysUtils; //cY
20993: 883 uPSI_cyWinUtils; //cY
20994: 884 uPSI_cyStrUtils; //cY
20995: 885 uPSI_cyObjUtils; //cY
20996: 886 uPSI_cyDateUtils; //cY
20997: 887 uPSI_cyBDE; //cY
20998: 888 uPSI_cyClasses; //cY

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20999: 889 uPSI_cyGraphics, //3.9.9.94_2          //cY
21000: 890 unit uPSI_cyTypes;                      //cY
21001: 891 uPSI_JvDatePicker,                      //JCL
21002: 892 uPSI_JvCreateProcess,                   //JCL
21003: 893 uPSI_JvEasterEgg,                      //JCL
21004: 894 uPSI_WinSvc, //3.9.9.94_3            //VCL
21005: 895 uPSI_SvcMgr                           //VCL
21006: 896 unit uPSI_JvPickDate;                  //JCL
21007: 897 unit uPSI_JvNotify;                    //JCL
21008: 898 uPSI_JvStrHlder                       //JCL
21009: 899 unit uPSI_JclNTFS2;                   //JCL
21010: 900 uPSI_Jcl8087 //math coprocessor       //JCL
21011: 901 uPSI_JvAddPrinter                     //JCL
21012: 902 uPSI_JvCabFile                        //JCL
21013: 903 uPSI_JvDataEmbedded;                 //JCL
21014: 904 unit uPSI_U_HexView;                  //mX4
21015: 905 uPSI_UWavein4,                        //mX4
21016: 906 uPSI_AMixer,                         //mX4
21017: 907 uPSI_JvaScrollText,                  //mX4
21018: 908 uPSI_JvArrow,                         //mX4
21019: 909 unit uPSI.UrlMon;                   //mX4
21020: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
21021: 911 unit uPSI_U_Oscilloscope4; //TOscfrmMain; //DFP
21022: 912 unit uPSI_DFFUtils;                  //DFP
21023: 913 unit uPSI_MathsLib;                  //DFP
21024: 914 uPSI_UIntList;                      //DFP
21025: 915 uPSI_UGetParens;                    //DFP
21026: 916 unit uPSI_UGeometry;                 //DFP
21027: 917 unit uPSI_UAstronomy;                //DFP
21028: 918 unit uPSI_UCardComponentV2;         //DFP
21029: 919 unit uPSI_UTGraphSearch;             //DFP
21030: 920 unit uPSI_UParser10;                 //DFP
21031: 921 unit uPSI_cyIEUtils;                 //cY
21032: 922 unit uPSI_UcomboV2;                  //DFP
21033: 923 uPSI_cyBaseComm,                     //cY
21034: 924 uPSI_cyAppInstances,                 //cY
21035: 925 uPSI_cyAttract,                      //cY
21036: 926 uPSI_cyDERUtils;                    //cY
21037: 927 unit uPSI_cyDocER;                  //cY
21038: 928 unit uPSI_ODBC;                      //mX
21039: 929 unit uPSI_AssocExec;                 //mX
21040: 930 uPSI_cyBaseCommRoomConnector,        //cY
21041: 931 uPSI_cyCommRoomConnector,             //cY
21042: 932 uPSI_cyCommunicate,                 //cY
21043: 933 uPSI_cyImage;                       //cY
21044: 934 uPSI_cyBaseContainer,                //cY
21045: 935 uPSI_cyModalContainer,               //cY
21046: 936 uPSI_cyFlyingContainer;              //cY
21047: 937 uPSI_RegStr,                        //VCL
21048: 938 uPSI_HtmlHelpViewer;                //VCL
21049: 939 unit uPSI_cyIniForm;                 //cY
21050: 940 unit uPSI_cyVirtualGrid;             //cY
21051: 941 uPSI_Profiler,                      //DA
21052: 942 uPSI_BackgroundWorker,               //DA
21053: 943 uPSI_WavePlay,                      //DA
21054: 944 uPSI_WaveTimer,                      //DA
21055: 945 uPSI_WaveUtils;                     //DA
21056:
21057:
21058:
21059: /////////////////////////////////
21060: //Form Template Library FTL
21061: /////////////////////////////////
21062:
21063: 30 FTL For Form Building out of the Script, eg. 399_form_templates.txt
21064:
21065: 045 unit uPSI_VListView;                  TFormListView;
21066: 263 unit uPSI_JvProfiler32;               TProfReport
21067: 270 unit uPSI_ImgList;                   TCustomImageList
21068: 278 unit uPSI_JvImageWindow;              TJvImageWindow
21069: 317 unit uPSI_JvParserForm;               TJvHTMLParserForm
21070: 497 unit uPSI_DebugBox;                  TDebugBox
21071: 513 unit uPSI_ImageWin;                  TImageForm, TImageForm2
21072: 514 unit uPSI_CustomDrawTreeView;        TCustomDrawForm
21073: 515 unit uPSI_GraphWin;                  TGraphWinForm
21074: 516 unit uPSI_actionMain;                TActionForm
21075: 518 unit uPSI_CtlPanel;                  TAppletApplication
21076: 529 unit uPSI_MDIEdit;                  TEeditForm
21077: 535 unit uPSI_CoolMain; {browser}       TWebMainForm
21078: 538 unit uPSI_frmExportMain;              TSynexportForm
21079: 585 unit uPSI_usniffer; //PortScanForm TSniffForm
21080: 600 unit uPSI_ThreadForm;                TThreadSortForm;
21081: 618 unit uPSI_delphi_arduino_Unit1;     TLEDForm
21082: 620 unit uPSI_fpplotMain;                TfplotForm
21083: 660 unit uPSI_JvDBQueryParamsForm;      TJvQueryParamsDialog
21084: 677 unit uPSI_OptionsFrm;                TfrmOptions;
21085: 718 unit uPSI_MonForm;                   TMonitorForm
21086: 742 unit uPSI_SimplePortMain;            TPortForm1
21087: 770 unit uPSI_ovccalc; //widget

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21088: 810 unit uPSI_DbExcept;
21089: 812 unit uPSI_GL_actorUnitl;
21090: 846 unit uPSI_syntht_daemon;
21091: 867 unit uPSI_Debug;
21092: 904 unit uPSI_U_HexView;
21093: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain)
21094:
21095:
21096: ex.:with TEditForm.create(self) do begin
21097:   caption:= 'Template Form Tester';
21098:   FormStyle:= fsStayOnTop;
21099:   with editor do begin
21100:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mx2.rtf'
21101:     SelStart:= 0;
21102:     Modified:= False;
21103:   end;
21104: end;
21105: with TWebMainForm.create(self) do begin
21106:   URLs.Text:= 'http://www.kleiner.ch';
21107:   URLsClick(self); Show;
21108: end;
21109: with TSynexportForm.create(self) do begin
21110:   Caption:= 'Synexport HTML RTF tester';
21111:   Show;
21112: end;
21113: with TThreadSortForm.create(self) do begin
21114:   showmodal; free;
21115: end;
21116:
21117: with TCustomDrawForm.create(self) do begin
21118:   width:=820; height:=820;
21119:   image1.height:= 600; //add properties
21120:   image1.picture.bitmap:= image2.picture.bitmap;
21121:   //SelectionBackground1Click(self) CustomDraw1Click(self);
21122:   Background1.click;
21123:   bitmap1.click;
21124:   Tile1.click;
21125:   Showmodal;
21126:   Free;
21127: end;
21128:
21129: with TfplotForm1.Create(self) do begin
21130:   BtnPlotClick(self);
21131:   Showmodal; Free;
21132: end;
21133:
21134: with TOvcCalculator.create(self) do begin
21135:   parent:= aForm;
21136:   //free;
21137:   setbounds(550,510,200,150);
21138:   displaystr:= 'maXcalc';
21139: end;
21140:
21141: with THexForm2.Create(self) do begin
21142:   ShowModal;
21143:   Free;
21144: end;
21145:
21146: function CheckBox: string;
21147: var idHTTP: TIdHTTP;
21148: begin
21149:   result:= 'version not found';
21150:   if IsInternet then begin
21151:     idHTTP:= TIdHTTP.Create(NIL);
21152:     try
21153:       result:= idHTTP.Get(MXVERSIONFILE2);
21154:       result:= result[1]+result[2]+result[3]+result[4]+result[5];
21155:       if result = MBVER2 then begin
21156:         //output.Font.Style:= [fsbold];
21157:         //Speak(' A new Version '+vstr+' of max box is available! ');
21158:         result:= ('!!! OK. You have latest Version: '+result+' available at '+MXSITE);
21159:       end;
21160:       //idhttp.get2('http://www.softwareschule.ch/maxbox.htm')
21161:     finally
21162:       idHTTP.Free
21163:     end;
21164:   end;
21165: end;
21166:
21167:
21168:
21169:
21170: /////////////////////////////////
21171: All maxBox Tutorials Table of Content 2014
21172: ///////////////////////////////
21173: Tutorial 00 Function-Coding (Blix the Programmer)
21174: Tutorial 01 Procedural-Coding
21175: Tutorial 02 OO-Programming
21176: Tutorial 03 Modular Coding

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21177: Tutorial 04 UML Use Case Coding
21178: Tutorial 05 Internet Coding
21179: Tutorial 06 Network Coding
21180: Tutorial 07 Game Graphics Coding
21181: Tutorial 08 Operating System Coding
21182: Tutorial 09 Database Coding
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21186: Tutorial 13 Crypto Coding
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21190: Tutorial 17 Web Server Coding
21191: Tutorial 18 Arduino System Coding
21192: Tutorial 18_3 RGB LED System Coding
21193: Tutorial 19 WinCOM /Arduino Coding
21194: Tutorial 20 Regular Expressions RegEx
21195: Tutorial 21 Android Coding (coming 2013)
21196: Tutorial 22 Services Programming
21197: Tutorial 23 Real Time Systems
21198: Tutorial 24 Clean Code
21199: Tutorial 25 maXbox Configuration I+II
21200: Tutorial 26 Socket Programming with TCP
21201: Tutorial 27 XML & TreeView
21202: Tutorial 28 DLL Coding (available)
21203: Tutorial 29 UML Scripting (2014)
21204: Tutorial 30 Web of Things (2014)
21205: Tutorial 31 Closures (coming 2014)
21206: Tutorial 32 SQL Firebird (coming 2014)
21207: Tutorial 33 Oscilloscope (coming 2015)
21208: Tutorial 34 GPS Navigation (coming 2015)
21209: Tutorial 35 Web Box (available)
21210:
21211:
21212: Doc ref Docu for all Type Class and Const in maxbox_types.pdf
21213: using Docu for this file is maxbox_functions_all.pdf
21214: PEP - Pascal Education Program Lib Lab
21215:
21216:
21217: http://stackoverflow.com/tags/pascalscript/hot
21218: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
21219: http://sourceforge.net/projects/maxbox #locs:51620
21220: http://sourceforge.net/apps/mediawiki/maxbox
21221: http://www.blaisepascal.eu/
21222: https://github.com/maxkleiner/maxbox3.git
21223: http://www.heise.de/download/maxbox-1176464.html
21224: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml
21225: https://www.facebook.com/pages/Programming-maxBox/166844836691703
21226: http://www.softwareschule.ch/arduino_training.pdf
21227: http://www.delphiarea.com
21228:
21229:
21230: ----- bigbitbox code_cleared_checked-----
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